



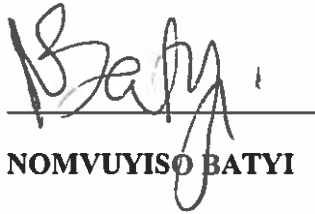
**Independent Communications Authority of South Africa**

Pinmill Farm, 164 Katherine Street, Sandton  
Private Bag X10002, Sandton, 2146

**RESPONSE TO ENQUIRIES ON THE INVITATION TO APPLY FOR A RADIO  
FREQUENCY SPECTRUM LICENCE TO PROVIDE MOBILE BROADBAND WIRELESS  
ACCESS SERVICES FOR URBAN AND RURAL AREAS USING THE COMPLIMENTARY  
BANDS, 700MHz, 800MHz AND 2.6GHz.**

1. The Independent Communications Authority of South Africa (“the Authority”), on 15 July 2015, in Government Gazette number 40145 (Notice Number 438 of 2016) published a notice in terms of Section 31(3) (a) of the Electronic Communications Act, 2005 (Act No. 36 of 2005), as amended, read with regulations 6 and 7 of the Radio Frequency Spectrum Regulations 2015 (“the Regulations”), published in Government Gazette number 38641 (Notice number 279 of 2015), inviting applications for the radio frequency spectrum licenses within the designated range, 2500 – 2690MHz (“the 2.6GHz band”) and 790 – 862 MHz (“the 800 MHz band”) and 694 – 790 MHz (“the 700MHz band”) for the purposes of providing national broadband wireless access services.
2. Interested persons were invited to submit enquiries, by no later than 16h00 Thursday, 04/08/2016
3. Written enquiries were received from nine (9) interested stakeholders by the closing date.
4. Written responses to the enquiries submitted to the Authority pursuant to the notice will be made available for inspection by interested persons at the Authority’s Library.
5. The Authority hereby issues this notice in response to enquiries by the public in line with the time schedule.

6. The responses to the enquiries have been limited to specific questions of clarity on the ITA itself. Questions requesting justification of the Authority's decisions were regarded as out of scope and therefore not responded to.
7. Further to the above, some questions of clarity relating to the rules of the auction will be responded to during the Bidder seminar and mock Auction scheduled for 12 to 14 December 2016, in line with the Notice.

A handwritten signature in black ink, appearing to read 'Batyi', is written over a horizontal line.

**NOMVUYISO BATYI**  
**COUNCILOR**

**ICASA**

## **1. SPECIFIC RESPONSE TO ENQUIRIES BY THE PUBLIC**

ENQUIRY NUMBER	ITA page & section	ITA text upon which the question is based	Question submitted to the Authority	The Authority's response
1.1	P.1 Par 1	Empowering provisions	Was the ITA published in terms of both regulations 6 and 7 of the Regulations? <sup>1</sup>	Yes
1.2	P.2 Par 9	Section 4D (4) of the ICASA Act requires...	Will the entire business plan of an Applicant be treated as confidential? <sup>2</sup>	The business plan will be treated as confidential only if the applicant makes an application in terms of Section 4D (4) of the ICASA Act, Act No 13 of 2000, as amended ("ICASA Act") and the request for confidentiality is granted.
1.3	P.10	<b>Definitions:</b> <i>Activity</i>	Taking into account that a bidder can only bid on one Lot during a round, what is the definition of activity? <sup>3</sup>	Activity is defined in page 10 of the published ITA.
1.4	P.8 Item 2	<b>Definitions:</b> <i>MVNO</i>	The definition of "MVNO" seems to be equivalent to that of "reseller" in the ECA – is this correct? <sup>4</sup>	An MVNO, as defined does not restrict the nature of the MVNO itself, but only the activity in the context of the ITA. Similarly, there are no restrictions on the extent of the services that may be obtained. Therefore, an MVNO may include entities such as resellers, licensees that roam on another network or any other relationship regarded as an MVNO relationship between the parties.

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ENQUIRY NUMBER	ITA page & section	ITA text upon which the question is based	Question submitted to the Authority	The Authority's response
1.5	P.19 Par. 50	Open access Obligations	Is it acceptable for a Licensee to engage a single Mobile Virtual Network Enabler (MVNE) or Mobile Virtual Network Aggregator (MVNA) and then for this party in turn to engage MVNOs? <sup>5</sup>	Yes.
1.6	P.19 Par. 50	II	Will "in-country" roaming partners be considered as MVNOs, e.g. national roaming? <sup>6</sup>	Yes
1.7	P.11	<b>Definitions:</b> <i>Reserve Price</i>	The definition of "Reserve Price" contemplates three stages – Initial Bid, First Round, and Auction Stage. Is this correct? <sup>7</sup>	No. Paragraph 54 of the ITA outlines the stages to be followed by the Authority, namely the Qualification Stage, Auction Stage and Licensing Stage. When an applicant indicates the preferred Lot, in terms of Appendix B of the Notice, this constitutes an initial bid.
1.8	P.12, S.7.2	Band plan	Can ICASA confirm that all the spectrum contained in each Lot is unencumbered <sup>8</sup> and available for immediate use by the successful bidders? <sup>9,10</sup>	The Spectrum is available to the extent that it is not utilised by Broadcasting Service Licensees. These licensees started migrating from the bands as of 1 February 2016. The details of the extent of the Spectrum not available immediately is illustrated in section 2 (General Enquiries) of this notice.

<sup>5</sup> VODACOM

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ENQUIRY NUMBER	ITA page & section	ITA text upon which the question is based	Question submitted to the Authority	The Authority's response
1.9	P.13, S.25	Lots	Can ICASA confirm whether the awarded spectrum is capable of being traded (leased, transferred, and/ or shared in any way) and what process would be required for trading it? <sup>11</sup>	Neither, the ECA nor the Regulations make provision for Spectrum Trading. However, the procedure for Spectrum Transfers and Sharing are stipulated in the Regulations.
1.10	P.13, S.25	II	Can ICASA confirm the awarded spectrum licence may be returned prior to the 15 years and what process and financial implications, if any, would this entail? <sup>12</sup>	Regulation 13 of the Regulations prescribes the procedure for Surrender of the Radio Frequency Spectrum Licence.
1.11	P.13, S.25	II	Can ICASA confirm the process by which the spectrum Licence may be withdrawn from a successful bidder and whether financial compensation would be applicable? <sup>13</sup>	Regulation 14 of the Regulations prescribes the procedure for the Withdrawal of the Radio Frequency Spectrum Licence.
1.12	P.13, S.26	An Applicant will qualify to only bid on one of the Lots (excluding Lot A).	Please confirm whether an Applicant can be awarded more than one of the Lots. <sup>14</sup>	An applicant can bid for more than one lot, but cannot be awarded more than one Lot.

<sup>11</sup> MTN

<sup>12</sup> MTN

<sup>13</sup> MTN

<sup>14</sup> MTN, Internet Solutions

ENQUIRY NUMBER	ITA page & section	ITA text upon which the question is based	Question submitted to the Authority	The Authority's response
1.13	P.13, S.27	An Applicant will be free to switch between Lots during the auction stage.	Please provide a detailed explanation of the way in which a bidder can "switch" during the auction?	The applicant may switch at any point during the auction process, except when an applicant is the Standing High Bidder. For example: where Applicant A, during round 2, may realise that he/she cannot outbid Applicant B, Applicant A may then decide to switch and Bid on a different Lot.
1.14	P.13, S.27	II	Can a Standing High Bidder switch from the Lot on which it is a Standing High Bidder to another Lot even if there are no other bids for that Lot? <sup>15</sup>	No, see response above.
1.15	P.13, S.28	II	Please confirm that the reserve price of ZAR 3 Billion is the reserve price for each individual Lot and not the total reserve price for all Lots? <sup>16</sup>	ZAR 3 Billion is the reserve price for each individual Lot. It should be noted that if (1) less than 4 bidders participate in the auction or (2) if less than 4 lots are awarded, the Authority may reinstate the auction process.
1.16	P.13, S.28	II	What happens if a Bidder expresses interest to bid for various lots or switches between Lots during the Auction? <sup>17</sup>	The Applicant may switch at any point during the auction process, except when an applicant is the Standing High Bidder.

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ENQUIRY NUMBER	ITA page & section	ITA text upon which the question is based	Question submitted to the Authority	The Authority's response
1.17	P17 Par. 31	Technology neutrality	If the Authority is allocating the spectrum for exclusive use of IMT, does it mean IMT-Advanced (namely LTE and 4G/5G technology), and will licensees be able to refarm spectrum to 2G, 3G as well as LTE and newer technologies?	<ul style="list-style-type: none"> <li>• The Authority in assigning spectrum for the exclusive use for IMT, has taken into consideration the provisions in the IMT Roadmap which defined IMT. IMT in this context is as named in ITU-R Resolution 56-1. IMT as the root name and encompasses IMT 2000 (including enhancement) and IMT Advanced (including enhancement). This includes the new name, IMT2020 that establishes the roadmap for the development of 5G mobile systems.</li> <li>• Yes. Re-farming is possible.</li> </ul>
1.18	P.13 Par. 29	Term of the Licences	Once the validity of the license has lapsed, what is the status of the licensee with respect to renewal of the license? <sup>18</sup>	The Regulations prescribe the procedure for the licence renewal.
1.19	P.13 Par. 30	II	The ITA mentions prescribed fee. Is the "prescribed fee" the fees as set out in the "Radio Frequency Spectrum Fees Regulations for Electronic Communication Network Services and Electronic Communication Services [Government Gazette Number 33495 (Notice 754 of 2010)]"? <sup>19</sup>	Yes

<sup>18</sup> Internet Solutions

<sup>19</sup> Internet Solutions

<b>ENQUIRY NUMBER</b>	<b>ITA page &amp; section</b>	<b>ITA text upon which the question is based</b>	<b>Question submitted to the Authority</b>	<b>The Authority's response</b>
1.20	P.13 Par. 30	II	If it will be automatically renewable upon the payment of a renewal fee, how much would be payable at ICASA as the renewal fee?	<ul style="list-style-type: none"> <li>• Whether the licence will be automatically renewable will be dependent on the regulatory environment at the time.</li> <li>• The formula for the calculation of spectrum fees is contained Radio Frequency Spectrum Fees Regulation 2010, published in Government Gazette Number 33495 (Notice 754 of 2010)</li> </ul>
1.21	P17 Par. 34	License Fees	Since the auction achieves the same "incentive" as the Authority's administrative incentive pricing (AIP) regime in the Spectrum Fees Regulations, it is understood that no annual licence fees will be payable during the 15-year license term (except for renewal in the last year, as envisaged in Regulation 10)?	Annual licence fees are payable by all Licensees in accordance with the prescribed Regulations. See par 34 of the ITA.
1.22	P.17 Par. 34	Par. 34 read with Par. 207:	In the case where a spectrum licence is issued for spectrum that is not available for immediate use, what will be the effective date from which the annual fees will accrue, if any? <sup>20</sup>	The formula for the calculation of spectrum fees is contained Radio Frequency Spectrum Fees Regulation 2010, published in Government Gazette Number 33495 (Notice 754 of 2010)
1.23	P17 Par 38.2	Technical conditions – 800MHz band	Which frequencies are most affected by the statement in paragraph 38.2 of the ITA? <sup>21</sup>	Frequencies below 790 MHz

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1.25	P.19 Par 47	Uplink and throughput obligations	What is the deadline for achieving the obligations set out <sup>22</sup> in paragraph 45 to 49? Is it to be met by the start of 2020 <sup>23</sup> or the end of 2020 or some other point?	31 December 2020
1.26	P18, Par 42.1.	Technical conditions	What is the definition of EIRP limits and are these limits applicable to a specific <sup>24</sup> antenna port (polarization), antenna (all polarizations) or direction (all antennas)?	EIRP means Effective Isotropic Radiated Power and applicable to antenna port (polarization), antenna (all polarizations) or direction (all antennas).
1.27	P18, Par 42.1	II	Have any restrictions in terms of guard bands or block edge masks been placed on the incumbent currently occupying 2575-2595MHz which adjoins block A? <sup>25</sup>	Please refer to the Radio Frequency Spectrum Assignment Plan (RFSAP)
1.28	P 18, Par.8	Uplink and throughput obligations	"Average user experience throughput" means the average downlink speed of 30 Mbit/s and an average uplink speed of 15 Mbit/s experienced by a	The interpretation is correct.

<sup>20</sup> VODACOM

<sup>21</sup> VODACOM

<sup>22</sup> VODACOM

<sup>23</sup> Internet Solutions

<sup>24</sup> Vodacom

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ENQUIRY NUMBER	ITA page & section	ITA text upon which the question is based	Question submitted to the Authority	The Authority's response
			single user under favourable radio conditions with low cell loading at the antenna where the spectrum awarded in terms of the ITA is deployed. 1. Is this interpretation acceptable? 2.. If not, in what respects and to what extent not? <sup>26</sup>	
1.29	P 18, Par.8	II	In the alternative, will achieving the target in S.A Connect of providing data services to 90% of the population across the country with an average downlink user throughput of 5 Mbit/s by 2020 be acceptable? If not, in what respects and to what extent not? <sup>27</sup>	No, the acceptable speeds are as outlined in the ITA
1.30	P.16, Par.48	A Licensee must submit documents to demonstrate progress to-date in sufficiently meeting the criteria of the uplink and throughput speed obligations.	Will ICASA extend the lifetime of the licence (currently 15 years) by the same time period in which it takes ICASA to free up the 700MHz/800MHZ frequency for	The licence duration/period will run from the date the spectrum becomes fully available

<sup>26</sup> Vodacom

<sup>27</sup> Vodacom

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			effective utilisation by a licensee? <sup>28</sup>	
1.31	P 19, Par.52	Obligations penalties	What are the penalties for not meeting the obligations? How will these be applied and enforced considering potential varying degrees of throughput and coverage achieved in 2020?	Please refer to paragraph 52 of the ITA, bearing in mind that the Authority may consider justifications for non-compliance.
1.32	P.16, Par.48	Uplink and throughput obligations: provided at intervals of 12, 18, 24, 30 and 36	Is it correct that paragraph 48 suggests that there are also interim targets that must be met prior to 2020? <sup>29</sup>	No. There are intervals of measuring the targets of the population
1.33	P.16, Par.48	Interim targets	Further to the above, what are the interim targets that operators have to achieve after 12, 18, 24, 30 and 36 months after the awarding of the new licence? <sup>30</sup>	Targets are set at 30 Mbits/s at all intervals throughout the rollout process. That is operators have to achieve 30 Mbits/s after 12, 18, 24, 30 and 36 months after the awarding of the new licence
1.34	P.19 Par 49	Uplink and throughput obligations	The ITA says that theoretical measurements of obligations being met are acceptable, unless otherwise required by ICASA. Is the Authority not going to perform	The Authority may use either one of the two or both.

<sup>28</sup> MTN

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ENQUIRY NUMBER	ITA page & section	ITA text upon which the question is based	Question submitted to the Authority	The Authority's response
			independent tests, but only require self-reporting other than in exceptional cases of purported non-compliance?	
1.35	P.16, Par.50	A Licensee is required to provide open access to a minimum of three Mobile Virtual Network Operators (3 X MVNO).	To comply with this obligation must the licensee have established and implemented an MVNO agreement with a minimum of three MVNO businesses? <sup>31</sup>	Yes, to the extent that there is demand in the market. The licensee should however ensure it has capacity for 3 MVNOs on non-discriminatory terms
1.36	P.16, Par.50	II	Is the obligation met by the Licensee if it is ready and willing to host a minimum of three MVNOs even though agreements with three MVNOs have not been concluded?	Yes
1.37	P.16, Par.50	II	If each Licensee is required to actually be hosting 3 MVNOs then, if all four Lots are assigned, a total of $3 \times 4 = 12$ MVNOs. As this is a large number of MVNOs would a Licensee be deemed to be in breach of its obligation if it is willing to host an MVNO but there is not sufficient	No, provided that a licensee is able to demonstrate a lack of demand

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<sup>31</sup> MTN

<b>ENQUIRY NUMBER</b>	<b>ITA page &amp; section</b>	<b>ITA text upon which the question is based</b>	<b>Question submitted to the Authority</b>	<b>The Authority's response</b>
			demand for MVNO hosting services?	
1.38	P.16, Par.50	II	Does ICASA envisage that an MVNO may be an MVNO of 2 or more successful bidders?	This is deemed to be a business decision.
1.39	P.16, Par.50	II	Does the definition of the MVNO in the glossary preclude a Licensee from having any form of beneficial ownership in any MVNO?	No
1.40	P. 51 Par. 51 and 52	Historically Disadvantaged Groups	Paragraphs 51 and 67.2 make reference to "Historically Disadvantaged Groups". Although the phrase is capitalised, it is not defined anywhere in the ITA. What does Historically Disadvantaged Groups mean? Where is it defined? <sup>32</sup>	Historically Disadvantaged Groups (HDG) is not defined in the ECA and in the ICASA Act. However, section 4(3)(k) of the ICASA Act, read with sections 2(h) and 9(2)(b) of the ECA, provides a guidance as to what constitutes HDG, namely black people, women, youth and persons with disabilities.
1.41	P.16, Par.52	If a Licensee fails to meet the obligations as set out in items 47 and 50 above, this will be regarded as a serious breach of the license	Can the Authority confirm what would happen to the Auction Fee in case of withdrawal – e.g. would it be refunded pro-rata of the remaining	The Auction fee is non-refundable.

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		conditions and the radio frequency spectrum licence may be withdrawn by the Authority with immediate effect, subject to a determination by the Complaints and Compliance Committee for non-compliance.	years on the licence? <sup>33</sup>	
1.42	P20 Par.57	Reserve Price	Paragraph 57 suggests that the Reserve Price can qualify as a Bid on a Lot once the Applicant has determined which Lot to bid for. Is this correct? <sup>34</sup>	Yes
1.43	P23 Par. 45 and 46	Uplink/downlink or throughput obligation	Our understanding of paragraph 45 and 46 is that these are contextual paragraphs and does not represent an uplink/downlink or throughput obligation as these are set out in section 8.1 number 47 and 48. Is this a correct interpretation of 45 and 46? <sup>35</sup>	Yes

<sup>33</sup> MTN

<sup>34</sup> Cell C

<sup>35</sup> Internet Solutions



ENQUIRY NUMBER	ITA page & section	ITA text upon which the question is based	Question submitted to the Authority	The Authority's response
1.44	P. 17 Par.58	Following the Auction Stage, Licences will be issued to winning Bidders, subject to the payment of the Auction Fee as described in section 14.	Does "Auction Fee" include the Reserve Price? <sup>36</sup>	Yes
1.45	P.17 Par.58	Reserve Price	Must the Reserve Price be paid in order to pass through the Qualification stage and participate in the Auction?	The Authority may require the bank guarantee to increase during the auction but the reserve price (or higher bid amount) is only payable by the successful bidder.
1.46	P.17, Par.59	The table below provides an indicative timeframe for the award process. Note that given the nature of the SMRA, it is not possible to pre-determine the timetable for the Auction Stage.	When will the licenses for the 700MHz and 800MHz bands be issued? <sup>37</sup>	In terms of the time frame for the award process, (page 22 of the Notice), Licenses will be issued by 28/03/2017.
1.47	P.17, Par.59	II	Will the 15-year license duration be measured from the date at which the 700MHz and 800MHz bands are available for commercial use nationally by the auction winners? <sup>38</sup>	The licence duration/period will run from the date the spectrum becomes fully available
1.48	P.19, Par.61.2	Enter into agreements with other Applicants	Are network sharing agreements	Yes

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<sup>38</sup> MTN

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		in relation to the award process, or...	excluded from this restriction? <sup>39</sup>	
1.49	P.22 Par.63	Consortium	Paragraph 63 suggests that allowing a financial institution to participate in a consortium is not permitted. Why are those financial institutions, who are not I-ECNS licence holders, not permitted to participate in a consortium when it would be the consortium that is applying for the licence through a licensee with the requisite I-ECNS licence? <sup>40</sup>	Any person or entity in possession of an individual ECNS Licence may participate in the licensing process, and this includes financial institutions.
1.50	P23 Par.67.2	Historically Disadvantaged Groups.	Paragraph 67.2, read with paragraph 77.4, seems to suggest that if a consortium wishes to issue shares to an HDG should it be successful in acquiring a licence in circumstances where that HDG is not a licensee, the parties may not be able to form a consortium to bid for a licence where the representative bidder holds an I-	The HDG or BBBEE requirements in terms of regulation 7(3)(d) of the Regulations apply to the bidder, this includes the designated representative of the consortium.

<sup>39</sup> MTN

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ENQUIRY NUMBER	ITA page & section	ITA text upon which the question is based	Question submitted to the Authority	The Authority's response
			ECNS. Is this correct? <sup>41</sup>	
1.51	P22, Par.12.4	Consortium	What does ICASA mean by "only one is allowed to partake in the process"? Does this mean that only one member must make the application on behalf of the consortium (submit the information as requested in section 12.4) or should the consortium still submit the information for each member but only one member designated to participate in the actual auction process? <sup>42</sup>	Only the applicant of the consortium must submit the application on behalf of the consortium.
1.52	P22, Par.12.4	II	If the consortium is assigned a spectrum licence, will such licence be assigned to the one member that participated in the auction or will it be assigned to the consortium, noting that the consortium does not have an ECNS licence? <sup>43</sup>	The license will be awarded to the applicant.

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ENQUIRY NUMBER	ITA page & section	ITA text upon which the question is based	Question submitted to the Authority	The Authority's response
1.53	P22, Par12.4	II	How will the 30% equity ownership criteria be applied in terms of the consortium? Must each member have a 30% equity ownership or should the members collectively have 30%? If so, how will this be calculated and be used by the Authority to see if the consortium qualifies?	Only one member may submit application on behalf of consortium and this one member must provide details of themselves (not consortium) as may be required by ITA (E.G. HDG and business plans)
1.54	P23, Par.73	bidder can submit only one Application.	May a Bidder indicate interest in more than one Lot in an Application or alternatively indicate which Lot it is not interested in? <sup>44</sup>	Yes.
1.55	P23, Par 73	An applicant is only permitted to submit one Application.	The Applicant will only be required to pay the application fee as set out in item 75 once, irrespective of the number of lots being bid for in the process. <sup>45</sup>	The applicant is only required to pay a once off application fee irrespective of the number of lots it wishes to bid for.
1.56	P21, Par.77	Proof of financial capability of the Applicant – including historic financial statements	How many years of financial statements are required? <sup>46</sup>	Minimum of 2 Years

<sup>44</sup> Cell

<sup>45</sup> Internet Solutions

<sup>46</sup> MTN

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1.57	P25 Par.81.4	Includes the upfront and annual licence fees associated with the relevant spectrum Lot(s)	In paragraph 81.4 ICASA asks for the upfront costs of the spectrum to be taken into account, but the spectrum is to be auctioned. How does ICASA envisage the Applicant knowing the upfront cost in advance? <sup>47</sup>	Licensees may include estimated upfront cost for spectrum taking into account the Spectrum Fees Regulations.
1.58	P15. Par.24 and 25	Packaged into Four (4) Lots and Grouped	What is the difference between the Lots listed in paragraph 24 and the Lot groupings/categories in paragraph 25? <sup>48</sup>	There is no difference.
1.59	P.23, Par.84	In undertaking the evaluation of the technical capability of the applicant, the Authority will seek assurance that the applicant has the technical, managerial and organisational capability to deploy the planned communications network and that the Applicant (areas to be covered, timeline) is fully aligned with the requirements of the applicants Business Plan as	Clause 84 of the ITA implies that the applicant must submit Proof of Technical Capability for "the Lot(s) which the Applicant intends to apply for". Does this mean that the applicant must submit Proof of Technical Capability for all four Lots in order to be permitted to bid on any of the Lots during the auction? Or can the applicant simply submit Proof of Technical Capability for the Lot that they	Yes. The applicant is to submit Proof of Technical Capability for the Lot that they initially intend bidding on

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		well as any coverage obligations associated with the Lot(s) which the Applicant intends to apply for. The applicant should submit all appropriate documentation that demonstrates this – as a minimum, this should include the documents relating to technical capability as detailed in 77.8.	initially intend on bidding on? <sup>49</sup>	
1.60	P.23, Par.84	II	Can ICASA please specify the criterion and scoring methodology that it will use to determine an applicant's Proof of Technical Capability? <sup>50</sup>	In line with the regulation 6 of the Radio Frequency Spectrum Regulations, Government Gazette Number 38641
1.61	P.25, Par.110.2	In each Round, Bidders will have the opportunity to place Bids on any of the available Lots, providing those Bids do not break the Activity Rules and Spectrum Caps.	If the bidder can only win one Lot but is the Standing High Bidder on multiple Lots at the end of the auction how will the Lot assigned to the bidder be determined? <sup>51</sup>	The bidder is to choose their preferred lot out of the lots to which they are the standing high bidder.

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<sup>51</sup> MTN

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1.62	P.25, Par.111	Before each Round begins, the Authority will communicate to all Bidders the Standing High Bid and Standing High Bidders amount on each Lot	Can ICASA confirm that the Standing High Bid and the Standing High Bidder's amount is the same monetary amount? <sup>52</sup>	Yes.
1.63	P.25, Par.111	II	Will all bidders be informed as to the identity of the Standing High Bidder on each Lot? <sup>53</sup>	Yes
1.64	P.26, Par.116.1	If one or more Lots have received Bids from multiple Bidders of value equal to the maximum bid value of the Round, the Standing High Bidder will be selected by means of a tie-break.	Can ICASA please explain in detail how the tie-break would work? <sup>54</sup>	The details are to be clarified during Bidder seminar and mock Auction scheduled for 12 to 14 December 2016 in line with the Notice.
1.65	P.26, Par.118	For each Round, the Authority will specify four (4) bid amount options which may be placed on each Lot.	Can ICASA confirm that the four bid amount options for each Lot in any round will specify a set of four specific amounts that a Bidder can bid based on four	Yes

<sup>52</sup> MTN

<sup>53</sup> MTN

<sup>54</sup> MTN

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			different percentages of the Standing High Bid amount? <sup>55</sup>	
1.66	P. 31 Par.143.2	The Standing High Bid amount	Paragraph 143.2 when read with these preceding paragraphs suggests that a Bid could be made for less spectrum than is in a particular Lot. Is this correct? <sup>56</sup>	No
1.67	P.32 Par.150	Bidder's auction fee	Please advise whether spectrum caps are being imposed, particularly as paragraph 150 suggests that one Bidder could win more than one Lot? <sup>57</sup>	Yes
1.68	P.30, Par.161	During the auction, at least one Authorised Representative per Bidder must be present at the auction location for the duration of each bidding day.	What is the procedure for designating the Authorised Representatives? <sup>58</sup>	The Authorised Representative is as defined in the ITA.
1.69	P.30, Par.161	II	Is there a maximum number of Authorised	Three (3)

<sup>55</sup> MTN

<sup>56</sup> Cell C

<sup>57</sup> Cell C

<sup>58</sup> MTN



ENQUIRY NUMBER	ITA page & section	ITA text upon which the question is based	Question submitted to the Authority	The Authority's response
			Representatives for a bidder? <sup>59</sup>	
1.70	P.30, Par.162	Each Bidder will be allowed up to a maximum of five (5) persons at the auction location each day, including the Authorised Representative(s)	Is it possible to substitute people at the auction location during a day? <sup>60</sup>	No
1.71	P.30, Par.181	... the bid entry form should be signed by one of the Bidder's Authorised Representatives.	What happens if the Authorised Representatives are unable to sign the bid entry form? <sup>61</sup>	It is the responsibility of the Applicant to ensure that its representatives are authorised to sign.
1.72	P.22, Par.11.2	HDG on a consortium or groups.	Is there a limit on the number of members in a consortium?	No
1.73	P 22, Par.11	General Rules	What are the fines that can be imposed on an applicant that breaches the auction rules? <sup>62</sup>	Rules of the Auction will be communicated during the mock auction.
1.74	P22 Par.65	General Rules	How are "breaches" classified according to severity, e.g. what will be considered a severe breach versus one that is not severe?	Rules of the Auction will be communicated during the mock auction.

<sup>59</sup> MTN

<sup>60</sup> MTN

<sup>61</sup> MTN

<sup>62</sup> Vodacom

ENQUIRY NUMBER	ITA page & section	ITA text upon which the question is based	Question submitted to the Authority	The Authority's response
1.75	P21, Par.12	Qualification stage	It is stated that in order to submit an application, an Application must be an Individual ECNS licensee and have a minimum 30% equity ownership held by persons from Historically Disadvantaged Groups. Does this requirement apply to Individual ECNS licensees that were issued licenses under section 36 or section 37 of the Telecommunications Act 1996? If not, on what basis does it not apply to them? <sup>63</sup>	Yes. Regulation 7(3)(d) of the Regulations indicates that an applicant shall be disqualified from the application process (in this case ITA) where such applicant does not have 30% HDG or is below a level 4 contributor in terms of the Codes of Good Practice.
1.76	P21, Par.12	II	It is understood that the ownership requirement is irrespective of whether the ownership is held directly or indirectly in the licensee e.g. black shareholding held in the holding group company of the licensee. Is this understanding correct? <sup>64</sup>	Yes
1.77	P23, Par.12.4	Application Fee	Will the application fee be offset against the	No, the application fee is non-refundable and will not be

<sup>63</sup> Vodacom

<sup>64</sup> Vodacom

ENQUIRY NUMBER	ITA page & section	ITA text upon which the question is based	Question submitted to the Authority	The Authority's response
			auction amount <sup>65</sup> if the bid is successful? <sup>66</sup>	offset against the auction amount.
1.78	P23, Par.12.4	Application Content	Will the Applicant's audited annual financial statements suffice? <sup>67</sup>	Yes
1.79	P20, Par.60	Time table for the award	Can the time allocated to make any corrections be extended? Can it be extended more than once? <sup>68</sup>	Yes. Please see regulation 8 of the Regulations.
1.80	P. 20 S12.	Submission of Applications	The Authority is requested to confirm whether an applicant must complete only the application form in Appendix B or whether Annexure E of the RFSR 2015 should also be completed?	Two forms must be completed: <ul style="list-style-type: none"> <li>• The form in the ITA; and</li> <li>• Annexure E of the Regulations</li> </ul>
1.81	P 16, Par7.7	Spectrum Caps	Both the Regulations and the ITA refer to a limit on the amount of spectrum each single licensee can secure. Where is this limitation specified as regards to this ITA, and what is it? <sup>69</sup>	It is the maximum allocation per Lot.

<sup>65</sup> Internet Solutions

<sup>66</sup> Vodacom

<sup>67</sup> Vodacom

<sup>68</sup> Vodacom

<sup>69</sup> Internet Solutions

ENQUIRY NUMBER	ITA page & section	ITA text upon which the question is based	Question submitted to the Authority	The Authority's response
1.82	P 19, Par8.2	MVNO Obligation	Does paragraph 51 mean that all MVNOs on the Licensee's network have to have more than 51% of ownership held by persons from Historically Disadvantaged backgrounds or only the minimum of the three MVNOs required to meet the criteria in paragraph 49. For example, would a fourth or fifth MVNO have to meet these criteria as well? <sup>70</sup>	The MVNO's that form part of the obligations should have 51% of ownership held by persons from HDG.
1.83	P16, S7.5	Term of the Licences	Please advise as to the status of the license after the initial 15-year period. Would the licensee merely be required to renew the license or will there be additional obligations placed on it? <sup>71</sup>	This is dependent on the prevailing regulatory environment at the time
1.84	P.25 S 13	Auction	Our understanding of this section is that we need to submit an application for only one of the Lots (for example Lot B) and if we successfully pass the Qualifications stage the Applicant can switch between	Yes

<sup>70</sup> Internet Solutions

<sup>71</sup> Internet Solutions

ENQUIRY NUMBER	ITA page & section	ITA text upon which the question is based	Question submitted to the Authority	The Authority's response
			Lots during the auction, and if it remains the standing high bidder at the end of the auction can be awarded a spectrum license with a different Lot from the one originally qualified for (for example Lot C). Is this interpretation with respect to paragraph 26 and 27 correct? <sup>72</sup>	

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<sup>72</sup> Internet Solutions

## **2. GENERAL ENQUIRIES**

## **2.1 The Availability of the frequencies in the ITA.**

Most of the enquiries had one thing in common, and that is, the availability of the frequencies in the ITA.

1. The Authority published the Terrestrial Broadcasting Frequency Plan (TBFP) 2013, published in Government Gazette Number 36321 and Government Gazette Number 38005.
2. The TBFP is to be read with the Final Radio Frequency Spectrum Assignment Plan, published in Government Gazette Number 38640 (Notices 271 and 273) and Government Gazette Number 38755 (Notices 388 and 390)
3. An analysis has been done to verify the service that will need to be migrated in the short term in order to implement 100% of the 800 MHz and 700 MHz and 2.6 GHz in the long term.
4. The status of the 2.6 GHz is as follows
  - i. 100% Available
5. The status of the 800 MHz as illustrated in **Annexure A**, is as follows
  - i. Multiplex 1 (DDT1) - 3.24 % of population
  - ii. Multiplex 2 (DDT2) - 10.11% of population
  - iii. SABC 1 - 3.89 % of population
  - iv. SABC 2 - 4.39 % of population
  - v. SABC 3 - 10.20% of population
  - vi. ETV - 3.57% of population
  - vii. Mnet - 2.78% of population
  - viii. CSN - None
6. The status of the 700 MHz Analogue Services as illustrated in **Annexure B**, is as follows
  - i. Analogue Services 22.8%
  - ii. Available for IMT 77.2%
7. The status of a Digital Terrestrial Television (DTT) Services above 694 MHz is as indicated in **Annexure C**.

**3. ANNEXURE A - ANALOGUE CHANNELS BETWEEN 790 AND 862 MHZ.(IMT800)**



Item	TX-Name	Fr eq.	C h.	E R P	Longit.	Latit.	P ol.	P at t	Ant .H.	Hef fm.	Hei ght	Prog ram
1	FRANSCHHOE K	81 0	6 3	1	019E04 26.000	33S54 26.000	V	D	23	471	663	DTT 1
2	GEORGE	81 8	6 4	11 2	022E27 04.000	33S55 38.000	H	D	145	422	575	DTT 1
3	SOMERSET EAST	79 4	6 1	0, 1	025E34 41.000	32S42 45.000	V	D	12	155	845	DTT 1
4	DONNYBROO K	81 8	6 4	10	029E51 19.000	29S54 56.000	H	N	138	549	158 1	DTT 1
5	MOUNT AYLIFF	80 2	6 2	10	029E23 41.000	30S50 11.000	H	N	136	709	168 7	DTT 1
6	MBUZINI	80 2	6 2	2	031E54 53.000	25S52 26.000	V	N D	50	100	682	DTT 1
7	NQUTU	81 0	6 3	15	030E40 42.000	28S15 43.000	V	N D	102	515	154 0	DTT 1
8	SUPINGSTAD	81 8	6 4	2	026E01 36.000	24S47 20.000	V	D	24	76	126 7	DTT 1
9	CAROLINA	81 8	6 4	10	030E37 57.000	26S10 37.000	H	N	222	344	180 8	DTT 1
10	HOLY CROSS	80 2	6 2	30	029E38 25.000	31S07 56.000	V	N D	50	382	812	DTT 1
	TX-Name	Fr eq.	C h.	E R P	Longit.	Latit.	P ol.	P at t	Ant .H.	Hef fm.	Hei ght	Prog ram
1	FRANSCHHOE K	84 2	6 7	1	019E04 26.000	33S54 26.000	V	D	23	471	663	DTT 2
2	EAST LONDON	80 2	6 2	50	027E48 58.000	32S56 20.000	H	N	210	208	277	DTT 2
3	VILLIERSDOR P	82 6	6 5	10	019E30 25.000	33S58 09.000	H	N	153	115 7	155 6	DTT 2
4	GEORGE	85 0	6 8	11 2	022E27 04.000	33S55 38.000	H	D	145	422	575	DTT 2
5	SOMERSET EAST	82 6	6 5	0, 1	025E34 41.000	32S42 45.000	V	D	12	155	845	DTT 2
6	DONNYBROO K	85 0	6 8	10	029E51 19.000	29S54 56.000	H	N	138	549	158 1	DTT 2
7	VOLKSRUST	80 2	6 2	10	029E53 15.000	27S18 33.000	H	N	164	593	204 0	DTT 2
8	PILANESBER G	82 6	6 5	16	027E05 35.000	25S21 07.000	V	D	70	362	135 5	DTT 2
9	ITSOSEN	81 0	6 3	33	025E55 18.000	26S04 30.000	V	D	70	93	149 3	DTT 2
10	TZANEEN	80 2	6 2	20	030E00 17.000	23S47 06.000	H	N	98	929	183 2	DTT 2
11	MOUNT AYLIFF	81 8	6 4	10	029E23 41.000	30S50 11.000	H	N	136	709	168 7	DTT 2
12	ERMELO	79 4	6 1	0, 1	029E59 57.000	26S30 35.000	V	D	15	86	175 0	DTT 2
13	GREYTOWN	80 2	6 2	10	030E32 10.000	29S00 46.000	H	N	160	716	156 7	DTT 2
14	GREYTOWND ORP	80 2	6 2	1	030E36 48.000	29S02 05.000	V	D	13	182	116 0	DTT 2

15	MADIBOGO	81 0	6 3	4	025E15 14.000	26S27 28.000	H	D	140	260	141 7	DTT 2
16	MBUZINI	83 4	6 6	2	031E54 53.000	25S52 26.000	V	N D	50	100	682	DTT 2
17	MOOI RIVIER	84 2	6 7	10	029E52 04.000	29S11 07.000	H	N	160	497	171 7	DTT 2
18	SUPINGSTAD	85 0	6 8	2	026E01 36.000	24S47 20.000	V	D	24	76	126 7	DTT 2
19	CAROLINA	83 4	6 6	10	030E37 57.000	26S10 37.000	H	N	222	344	180 8	DTT 2
20	HOLY CROSS	81 8	6 4	30	029E38 25.000	31S07 56.000	V	N D	50	382	812	DTT 2
It em	TX-Name	Fr eq.	C h.	E R P	Longit.	Latit.	P ol .	P at t	Ant .H.	Hef fm.	Hei ght	Prog ram
1	ALEXANDER BAY	79 1	6 1	0, 1	016E29 55.000	28S36 39.000	V	D	32	201	55	SAB C1
2	BETHLEHEM	80 7	6 3	10 0	028E29 58.000	28S14 10.000	H	D	160	201	194 5	SAB C1
3	DULLSTROO M	79 1	6 1	2	030E11 17.000	25S34 21.000	H	D	191	201	200 6	SAB C1
4	DZAMBA	83 9	6 7	0, 3	030E18 41.000	22S49 05.000	V	D	32	201	135 4	SAB C1
5	GREYTOWN	79 1	6 1	10	030E32 10.000	29S00 46.000	H	D	160	201	156 7	SAB C1
6	HEIDELBERG	81 5	6 4	0, 1	028E20 48.000	26S29 19.000	V	D	32	201	168 6	SAB C1
7	KROONSTAD	79 1	6 1	10 0	027E11 07.000	27S25 17.000	H	D	222	201	150 3	SAB C1
8	MALAMBA	80 7	6 3	0, 1	030E15 09.000	22S53 56.000	V	D	32	201	133 4	SAB C1
9	PORT ST JOHNS	79 1	6 1	1	029E31 39.000	31S36 39.000	H	N D	55	201	351	SAB C1
10	RUSTENBURG	81 5	6 4	16	027E07 05.000	25S36 59.000	H	D	98	201	158 6	SAB C1
11	SUNNYSIDE	80 7	6 3	1	028E12 21.000	25S45 58.000	V	N D	168	201	144 0	SAB C1
12	SUURBERG	80 7	6 3	40	025E34 27.000	33S14 55.000	H	D	192	201	980	SAB C1
13	UMTATA	80 7	6 3	10	028E44 36.000	31S35 48.000	H	D	221	201	869	SAB C1
14	VILLIERS	81 5	6 4	0	028E36 57.000	27S02 08.000	V	D	68	201	151 2	SAB C1
It em	TX-Name	Fr eq.	C h.	E R P	Longit.	Latit.	P ol .	P at t	Ant .H.	Hef fm.	Hei ght	Prog ram
1	ALI WAL NORTH	79 1	6 1	10 0	026E34 00.000	30S47 05.000	H	D	134	201	198 5	SAB C2
2	BEZ VALLEY	84 7	6 8	0, 1	028E05 00.000	26S11 41.000	V	D	19	201	178 9	SAB C2
3	CHRISTIANA	79 9	6 2	10	024E55 50.000	27S53 03.000	H	D	221	201	126 4	SAB C2
4	MADIBOGO	83 9	6 7	4	025E15 14.000	26S27 28.000	H	D	167	201	141 7	SAB C2

5	MULBARTON	79 1	6 1	0	028E03 56.000	26S17 38.000	V	D	14	201	169 2	SAB C2
6	NELSPOORT	79 1	6 1	0	023E02 05.000	32S06 36.000	V	D	10	201	139 2	SAB C2
7	NONGOMA	79 9	6 2	10	031E39 27.000	27S54 18.000	H	D	194	201	871	SAB C2
8	TZANEEN	81 5	6 4	15 8	030E00 17.000	23S47 06.000	H	D	98	201	183 2	SAB C2
9	VILLIERS	84 7	6 8	0	028E36 57.000	27S02 08.000	V	D	68	201	151 2	SAB C2
Item	TX-Name	Fr eq.	C h.	E R P	Longit.	Latit.	P ol	P at t	Ant .H.	Hef fm.	Hei ght	Prog ram
1	ALEXANDER BAY	82 3	6 5	0, 1	016E29 55.000	28S36 39.000	V	D	32	201	55	SAB C3
2	BETHLEHEM	83 9	6 7	10 0	028E29 58.000	28S14 10.000	H	D	160	201	194 5	SAB C3
3	CAPE TOWN	79 9	6 2	6, 8	018E23 11.000	34S03 18.000	H	D	148	201	880	SAB C3
4	CHRISTIANA	83 1	6 6	10	024E55 50.000	27S53 03.000	H	D	221	201	126 4	SAB C3
5	ENZELSBERG	83 9	6 7	2	026E13 16.000	25S25 07.000	H	D	53	201	150 2	SAB C3
6	FISHHOEK	80 7	6 3	0, 1	018E26 08.000	34S08 59.000	V	D	25	201	228	SAB C3
7	FRANSCHHOE K	82 3	6 5	1	019E04 23.000	33S54 26.000	V	N D	23	201	640	SAB C3
8	GREYTOWN	82 3	6 5	10	030E32 10.000	29S00 46.000	H	D	160	201	156 7	SAB C3
9	GREYTOWN D ORP	83 9	6 7	0	030E36 49.000	29S02 08.000	V	D	13	201	116 0	SAB C3
10	HOUT BAY	84 7	6 8	2, 5	018E20 51.000	34S00 46.000	V	D	22	201	214	SAB C3
11	KING WILLIAMS TOWN	84 7	6 8	18	027E15 36.000	32S40 44.000	H	D	160	201	141 7	SAB C3
12	KROONSTAD	82 3	6 5	10 0	027E11 07.000	27S25 17.000	H	D	222	201	150 3	SAB C3
13	MENLO PARK	82 3	6 5	0	028E16 05.000	25S46 16.000	V	D	23	201	144 3	SAB C3
14	NEWCASTLE	84 7	6 8	1	029E57 12.000	27S43 07.000	V	N D	61	201	131 8	SAB C3
15	NONGOMA	83 1	6 6	10	031E39 27.000	27S54 18.000	H	D	194	201	871	SAB C3
16	NYLSTROOM	80 7	6 3	1	028E25 59.000	24S47 58.000	V	N D	41	201	134 0	SAB C3
17	PATENSIE	84 7	6 8	0	024E49 42.000	33S45 35.000	V	D	12	201	272	SAB C3
18	PORT ELIZABETH CITY	79 1	6 1	2	025E35 29.000	33S55 28.000	V	D	64	201	30	SAB C3
19	STANDERTON	84 7	6 8	0, 1	029E12 51.000	26S57 37.000	V	D	12	201	163 6	SAB C3

20	STELLENBOSCH	847	68	0,2	018E52 10.000	33S54 59.000	V	D	29	201	214	SAB C3
21	SUURBERG	839	67	40	025E34 27.000	33S14 55.000	H	D	192	201	980	SAB C3
22	VILLIERSDORP	791	61	112	019E30 22.000	33S58 10.000	H	D	152	201	1556	SAB C3
Item	TX-Name	Fr eq.	C h.	E R P	Longit.	Latit.	P ol.	P at t	Ant .H.	Hef fm.	Hei ght	Prog ram
1	BETHLEHEM TOWN	791	61	0,2	028E19 54.000	28S13 17.000	V	N D	10	201	1747	MN ET
2	FRANSCHHOEK	791	61	1	019E04 23.000	33S54 26.000	V	N D	23	201	640	MN ET
3	MENLO PARK	791	61	0	028E16 05.000	25S46 16.000	V	D	23	201	1443	MN ET
4	POTCHEFSTROOM	807	63	0,1	027E04 32.000	26S41 46.000	V	N D	29	201	1364	MN ET
5	BEZ VALLEY	815	64	0,1	028E05 00.000	26S11 41.000	V	D	19	201	1789	MN ET
6	HOUT BAY	815	64	2,5	018E20 51.000	34S00 46.000	V	D	22	201	214	MN ET
7	NEWCASTLE	815	64	0,5	029E57 12.000	27S43 07.000	V	D	61	201	1318	MN ET
8	STANDERTON	815	64	0,1	029E12 51.000	26S57 37.000	V	D	12	201	1636	MN ET
9	STELLENBOSCH	815	64	0,2	018E52 10.000	33S54 59.000	V	D	29	201	214	MN ET
10	MULBARTON	823	65	0	028E03 56.000	26S17 38.000	V	D	14	201	1692	MN ET
11	PORT ELIZABETH CITY	823	65	0,4	025E35 29.000	33S55 28.000	V	D	64	201	30	MN ET
12	ERMELO	839	67	0,1	029E59 57.000	26S30 35.000	V	D	15	201	1750	MN ET
13	FISHHOEK	839	67	0,1	018E26 08.000	34S08 59.000	V	D	25	201	228	MN ET
14	SUNNYSIDE	839	67	1	028E12 21.000	25S45 58.000	V	N D	168	201	1440	MN ET
15	DORINGKRUI N	847	68	0	026E41 00.000	26S49 05.000	V	N D	24	201	1417	MN ET
16	HEIDELBERG	847	68	0,1	028E20 48.000	26S29 19.000	V	D	32	201	1686	MN ET
17	SECUNDA	847	68	0,1	029E12 10.000	26S29 40.000	V	N D	18	201	1650	MN ET
Item	TX-Name	Fr eq.	C h.	E R P	Longit.	Latit.	P ol.	P at t	Ant .H.	Hef fm.	Hei ght	Prog ram
1	AMANDA GLEN	791	61	0	018E40 33.000	33S51 18.000	V	D	9	201	130	e.TV
2	LADYBRAND	847	68	10	027E22 42.000	29S10 18.000	H	D	160	201	1855	e.TV
3	RUSTENBURG	847	68	16	027E07 05.000	25S36 59.000	H	D	98	201	1586	e.TV

4	SABIE	81 5	6 4	0, 1	030E45 35.000	25S07 46.000	V	D	12	201	147 9	e.TV
5	TABLE MOUNTAIN	81 5	6 4	0, 6	018E24 11.000	33S57 26.000	V	D	11	201	843	e.TV
6	TZANEEN	84 7	6 8	15 8	030E00 17.000	23S47 06.000	H	D	98	201	183 2	e.TV

#### **4. ANNEXURE B - ANALOGUE TELEVISION FREQUENCY ASSIGNMENTS: 694 AND 790 (IMT700)**



N O	STATION NAME	GEO. CO- ORDINATES		TRANSMITT ER			ANTENN A		ADMINISTRATIVE			
		LAT	LONG	FR EQ	C H	O FF SE T	ERP	PO L	PR OG	ST AT	CA T	ONAI R DATE
17 1	ENGCOBO	31S39 20	28E00 34	695, 25	49	20	1	V	TB NC	LIC	CT Y	
25 8	HELDERKRUIJN	26S06 05	27E51 27	695, 25	49	0	0,3	V	CSN	OP E	C M L	1994/0 1/01
32 5	KELOKILWE	26S54 34	23E47 00	695, 25	49	0	0,04	V	SBC 1	OP	PB S	
34 5	KLEINSEE	29S40 05	17E04 19	695, 25	49	0	0,00 8	V	SBC 1	OP	PB S	
35 2	KLERKSDORP	26S45 15	26E24 28	695, 25	49	0	10	H	MN ET	OP E	C M L	1989/0 9/01
40 3	LEPHEPHANE	24S00 42	30E11 32	695, 25	49	0	0,00 8	V	SBC 3	OP E	PB S	2010/0 7/17
48 8	MIDDELBURG	25S49 04	29E23 24	695, 25	49	20	10	H	MN ET	OP E	C M L	1991/0 6/01
50 8	MOOI RIVER	29S11 07	29E52 04	695, 25	49	-20	10	H	etv	OP E	C M L	2000/0 6/21
51 0	MOTSWEDI	25S16 55	25E52 18	695, 25	49	-20	7	V	SBC 2	OP E	PB S	2005/0 4/08
59 7	PAARL	33S42 51	18E56 23	695, 25	49	0	2	V	SBC 3	OP E	PB S	1990/0 6/01
82 3	THE BLUFF	29S54 42	31E00 44	695, 25	49	0	2,5	V	SBC 3	OP E	PB S	1990/0 6/01
85 8	UBOMBO	27S33 42	32E04 52	695, 25	49	0	100	H	SBC 3	OP E	PB S	1995/1 1/01
85	CALA	31S33 15	27E45 02	703, 25	50	20	1	V	TB NC	LIC	CT Y	
99	CAROLINA	26S10 37	30E37 57	703, 25	50	20	10	H	SBC 2	OP E	PB S	1986/0 3/01
29 4	JAGERSFONTEI N	29S45 23	25E25 47	703, 25	50	0	0,00 8	V	SBC 1	OP E	PB S	2011/1 2/20
32 1	KEATES DRIFT	28S50 59	30E30 20	703, 25	50	0	0,03 98	V	SBC 3	OP E	PB S	2011/0 5/13
62 5	PIET PLESSIS	26S14 56	24E49 55	703, 25	50	20	10	H	SBC 2	OP E	PB S	1986/0 4/01
69 2	PRETORIA NORTH	25S41 29	28E10 02	703, 25	50	0	0,12 5	V	MN ET	OP E	C M L	1992/0 4/01
75 3	SIBASA	22S56 57	30E26 54	703, 25	50	20	0,4	V	SBC 3	OP E	PB S	1990/0 7/01
76 4	STANDERTON	26S57 37	29E12 51	703, 25	50	-20	0,1	V	etv	OP E	C M L	2000/0 8/16
18	ANDRIESKRAA L	33S46 37	24E42 33	711, 25	51	0	0,01	V	SBC 3	OP E	PB S	1995/1 1/01

52	BETTYSBAAI	34S22 25	018E53 42	711, 25	51	0	0,04	V	SBC 1	OP	PB S	
18 5	ESTCOURT	29S00 55	29E51 56	711, 25	51	0	0,05	V	SBC 3	OP E	PB S	1995/1 1/01
19 9	GABA	22S47 02	30E42 25	711, 25	51	0	4	V	SBC 1	OP E	PB S	1990/0 7/01
22 2	GRABOUW	34S06 07	18E58 00	711, 25	51	20	0,5	V	etv	OP E	C M L	1998/0 9/29
27 3	HOEDSPRUIT	24S32 30	30E52 08	711, 25	51	20	100	H	etv	OP E	C M L	2000/0 9/29
30 4	JOHANNESBUR G	26S11 31	28E00 26	711, 25	51	0	10,0 237	H	SW ET	OP E	CT Y	2007/0 8/01
36 2	KOINGNAAS	30S11 37	017E17 34	711, 25	51	0	0,00 8	V	SBC 3	OP	PB S	
51 7	MOUNT FLETCHER	30S50 11	28E30 41	711, 25	51	0	1	H	TB NC	LIC	CT Y	
55 6	NGANGELIZWE	31S37 15	28E48 31	711, 25	51	0	0,02	H	TB NC	OP E	CT Y	1992/0 1/01
66 2	PORT ELIZABETH CITY	33S55 28	25E35 29	711, 25	51	20	0,4	V	CSN	OP E	C M L	1994/0 2/01
77 9	STEYNSBURG	31S17 53	025E48 38	711, 25	51	0	0,00 8	V	SBC 3	OP	PB S	
78 2	STEYNSDORP	26S07 48	30E59 43	711, 25	51	0	0,00 8	V	SBC 2	OP E	PB S	2010/0 6/16
92 6	VRYHEID	27S44 27	30E47 38	711, 25	51	-20	1	H	MN ET	OP E	C M L	1992/0 9/01
11 9	CRADOCK	32S18 01	25E32 27	719, 25	52	-20	10	H	SBC 3	OP E	PB S	1998/0 8/25
16 9	EMPANGENI	28S44 38	31E53 31	719, 25	52	20	0,2	V	SBC 3	OP E	PB S	1995/1 1/01
17 2	ENGCOBO	31S39 20	28E00 34	719, 25	52	20	10	V	SBC 2	OP	PB S	2002/1 1/28
27 8	HOUT BAY	34S00 46	18E20 51	719, 25	52	-20	2,5	V	CSN	OP E	C M L	1993/0 9/01
45 9	MATATIELE	30S23 45	28E49 19	719, 25	52	0	10	H	etv	OP E	C M L	2000/0 6/20
69 3	PRETORIA NORTH	25S41 29	28E10 02	719, 25	52	-20	0,05	V	SBC 1	OP E	PB S	1986/1 0/01
74 0	SEA POINT	33S54 33	18E23 51	719, 25	52	20	0,3	V	SBC 3	OP E	PB S	1990/0 6/01
75 7	SIMONSTOWN	34S11 55	18E25 36	719, 25	52	0	0,2	V	SBC 1	OP E	PB S	1985/0 7/01
77 0	STELLENBOSC H	33S54 59	18E52 10	719, 25	52	-20	0,16	V	CSN	OP E	C M L	1993/0 9/01
95 5	ZEERUST	25S51 37	26E02 51	719, 25	52	0	100	H	SBC 2	OP E	PB S	1980/0 8/01



4	ALEXANDER BAY	28S36 39	16E29 55	727, 25	53	-20	0,1	V	SBC 2	OP E	PB S	1990/0 1/01
8	ALI WAL NORTH	30S47 05	26E34 00	727, 25	53	20	10	H	SBC 1	OP E	PB S	1993/0 8/01
31	AURORA	33S49 39	18E38 29	727, 25	53	-20	0,00 3	V	SBC 1	OP E	PB S	1992/0 5/01
14 3	DULLSTROOM	25S34 21	30E11 17	727, 25	53	20	10	H	SBC 2	OP E	PB S	1986/0 3/01
15 1	DZAMBA	22S49 05	30E18 41	727, 25	53	-20	0,25	V	SBC 2	OP	PB S	1990/0 8/01
15 8	EKULINDENI	26S03 18	31E00 46	727, 25	53	0	0,00 8	V	SBC 1	OP E	PB S	2010/0 6/10
19 2	FRANSCHHOEK	33S54 26	19E04 23	727, 25	53	0	4	V	SBC 2	OP E	PB S	1976/0 1/01
22 8	GREYTOWN	29S00 46	30E32 10	727, 25	53	-20	10	H	SBC 2	OP E	PB S	1986/0 4/01
37 1	KROONSTAD	27S25 17	27E11 07	727, 25	53	0	100	H	etv	OP E	C M L	1998/1 0/01
43 3	MADINONYAN E	26S48 42	23E46 58	727, 25	53	0	0,04	V	SBC 1	OP	PB S	
47 4	MENLO PARK	25S46 16	28E16 05	727, 25	53	0	0,04	V	SBC 2	OP E	PB S	1975/1 0/01
52 7	MULBARTON	26S17 38	28E03 56	727, 25	53	20	0,03	V	SBC 3	OP E	PB S	1991/0 9/01
53 8	NELSPOORT	32S06 36	23E02 05	727, 25	53	0	0,00 8	V	SBC 1	OP E	PB S	2008/0 4/10
57 6	NTOMBENI	29S40 52	30E12 09	727, 25	53	0	0,03 98	V	SBC 1	OP E	PB S	2010/0 9/01
60 7	PAULPIETERSB URG	27S26 49	030E50 31	727, 25	53	0	0,1	V	SBC 1	OP	PB S	
61 0	PEARSTON	32S35 12	25E08 17	727, 25	53	0	0,00 8	V	SBC 1	OP E	PB S	2012/0 2/15
66 3	PORT ELIZABETH CITY	33S55 28	25E35 29	727, 25	53	0	2	V	SBC 2	OP E	PB S	1975/1 0/01
67 3	PORT ST JOHNS	31S36 39	29E31 39	727, 25	53	0	1	H	SBC 3	OP E	PB S	1997/1 1/30
71 0	RIEMVASM AAK	28S27 36	20E19 47	727, 25	53	0	0,00 8	V	SBC 1	OP E	PB S	2012/1 0/17
75 9	SOMERSET EAST	32S42 45	25E34 41	727, 25	53	0	0,05	V	SBC 2	OP E	PB S	1987/1 2/01
78 6	STRAALHOEK	30S20 49	29E50 53	727, 25	53	-20	10	V	SBC 1	OP E	PB S	2003/0 5/23
83 5	TSHAMAVUDZI	22S39 15	30E31 42	727, 25	53	-20	5	V	SBC 2	OP E	PB S	1990/1 2/01
91 6	VREDESVALLEI	28S30 10	20E11 01	727, 25	53	0	0,00 8	V	SBC 1	OP E	PB S	2012/1 1/14
91 9	VRISCHGEWAA GD	25S22 00	28E55 51	727, 25	53	0	0,02	V	SBC 1	OP E	PB S	2012/0 7/24
92 7	WAKKERSTRO OM	27S20 28	30E09 43	727, 25	53	0	0,00 8	V	SBC 1	OP E	PB S	2011/1 2/15

90	CAPE TOWN	34S03 18	18E23 11	735, 25	54	0	0,25	H	CSN	OP E	C M L	1993/0 9/01
10 4	CHRISTIANA	27S53 03	24E55 50	735, 25	54	20	10	H	etv	OP E	C M L	2000/0 7/27
13 3	DEWETSDORP	29S34 44	26E39 37	735, 25	54	0	0,01	V	SBC 2	OP E	PB S	1989/0 2/01
15 7	EAST LONDON	32S56 20	27E48 56	735, 25	54	20	225	H	etv	OP E	C M L	1998/0 9/29
28 5	HOWICK	29S30 13	30E13 52	735, 25	54	0	0,00 8	V	SBC 1	OP E	PB S	1986/0 9/01
43 6	MAKADIMA	25S26 41	25E49 10	735, 25	54	0	0,25 12	V	SBC 1	OP E	PB S	2012/0 6/21
53 5	NATURE'S VALLEY	33S58 24	23E34 28	735, 25	54	0	0,00 8	V	SBC 1	OP E	PB S	2012/0 2/14
56 6	NONGOMA	27S54 18	31E39 27	735, 25	54	20	10	H	etv	OP E	C M L	1998/0 9/29
57 0	NOUPOORT	31S18 14	24E56 01	735, 25	54	-20	10	H	SBC 2	OP E	PB S	1980/0 4/01
66 0	PORT ELIZABETH	33S56 10	25E26 27	735, 25	54	0	28,9 088	H	MB TV	OP E	CT Y	2011/0 9/01
85 4	TZANEEN 1	23S47 08	30E11 38	735, 25	54	20	0,3	V	MN ET	OP E	C M L	1993/0 1/09
90 9	VOLKSRUST	27S18 33	29E53 15	735, 25	54	0	7,5	H	SBC 3	OP	PB S	1998/0 9/01
42	BETHLEHEM	28S14 10	28E29 58	743, 25	55	-20	100	H	SBC 2	OP E	PB S	1980/0 4/01
10 1	CHRISSIESMEE R	26S16 37	30E13 53	743, 25	55	0	0,00 8	V	SBC 1	OP E	PB S	2011/1 2/15
18 7	FISHHOEK	34S08 59	18E26 08	743, 25	55	-20	0,05	V	SBC 2	OP E	PB S	1994/0 2/01
19 3	FRANSCHHOEK	33S54 26	19E04 23	743, 25	55	0	1	V	CSN	OP E	C M L	1993/0 9/01
23 2	GREYTOWNDO RP	29S02 08	30E36 49	743, 25	55	-20	0,03	V	SBC 2	OP E	PB S	1989/0 1/01
34 4	KLEINMOND	34S23 22	19E08 28	743, 25	55	20	0,8	V	SBC 2	OP E	PB S	2003/0 2/10
36 7	KRAKEELRIVIE R	33S48 49	23E43 30	743, 25	55	0	0,03 98	V	SBC 1	OP E	PB S	2012/0 9/26
43 1	MADIBOGO	26S27 28	25E15 14	743, 25	55	0	4	H	SBC 1	OP E	PB S	2005/0 4/08
43 9	MALAMBA	22S53 56	30E15 09	743, 25	55	-20	0,08	V	SBC 2	OP E	PB S	1990/0 8/01
52 8	MULBARTON	26S17 38	28E03 56	743, 25	55	20	0,03	V	CSN	OP E	C M L	1993/0 9/01
57 1	NQUTU	28S15 43	30E40 42	743, 25	55	20	15,1	V	SBC 1	OP E	PB S	2003/0 1/31

57 9	NYLSTROOM	24S47 58	28E25 59	743, 25	55	20	1	V	SBC 2	OP E	PB S	1983/0 1/01
74 1	SEA POINT	33S54 33	18E23 51	743, 25	55	20	0,3	V	CSN	OP E	C M L	1993/0 9/01
79 5	SUNNYSIDE	25S45 58	28E12 21	743, 25	55	0	1	V	SBC 2	OP E	PB S	1990/0 8/01
80 1	SUURBERG	33S14 55	25E34 27	743, 25	55	-20	40	H	etv	OP E	C M L	2000/0 5/25
82 9	TJAKASTAD	25S58 51	30E48 32	743, 25	55	0	0,00 8	V	SBC 1	OP E	PB S	2011/1 2/15
86 7	UMTATA	31S35 48	28E44 36	743, 25	55	0	1	H	MN ET	OP E	C M L	1991/0 8/01
34	BARRYDALE	33S53 56	020E43 27	751, 25	56	0	0,00 8	V	SBC 1	OP	PB S	
55	BEZ VALLEY	26S11 41	28E05 00	751, 25	56	-20	0,07	V	SBC 3	OP E	PB S	1991/0 9/01
13 6	DONNYBROOK	29S54 56	29E51 19	751, 25	56	0	240	H	etv	OP E	C M L	2000/1 0/24
20 9	GEORGE	33S55 38	22E27 03	751, 25	56	20	17	H	SBC 3	OP E	PB S	1994/0 5/01
24 9	HEIDELBERG	26S29 19	28E20 48	751, 25	56	20	0,1	V	SBC 2	OP E	PB S	1977/0 9/01
27 9	HOUT BAY	34S00 46	18E20 51	751, 25	56	0	2,5	V	SBC 1	OP E	PB S	1985/0 8/01
32 2	KEIMOE	28S43 00	20E59 50	751, 25	56	0	0,03 98	V	SBC 1	OP E	PB S	2012/0 9/30
33 7	KING WILLIAMS TOWN	32S40 44	27E15 36	751, 25	56	-20	18	H	SBC 2	OP E	PB S	1979/1 1/01
37 5	KURUMAN	27S21 05	23E18 49	751, 25	56	-20	5	H	SBC 1	OP E	PB S	2005/0 4/08
38 1	LADYBRAND	29S10 18	27E22 42	751, 25	56	20	10	H	SBC 2	OP E	PB S	1984/0 1/01
46 0	MATATIELE LP	30S19 27	028E46 37	751, 25	56	0	0,04	V	SBC 1	OP	PB S	
54 7	NEWCASTLE	27S43 07	29E57 12	751, 25	56	0	1	V	SBC 2	OP	PB S	1976/0 5/01
59 8	PATENSIE	33S45 35	24E49 42	751, 25	56	0	0,01	V	SBC 2	OP E	PB S	1986/1 1/01
69 4	PRETORIA NORTH	25S41 29	28E10 02	751, 25	56	20	0,12	V	CSN	OP E	C M L	1993/0 9/01
71 8	RUSTENBURG	25S36 59	27E07 05	751, 25	56	0	16	H	SBC 2	OP E	PB S	1979/1 2/01
72 3	SABIE	25S07 46	30E45 35	751, 25	56	0	0,1	V	SBC 2	OP E	PB S	1987/1 2/01
75 8	SIMONSTOWN	34S11 55	18E25 36	751, 25	56	20	0,2	V	etv	OP E	C M L	1998/0 9/29

76 5	STANDERTON	26S57 37	29E12 51	751, 25	56	0	0,1	V	SBC 2	OP E	PB S	1986/1 1/01
77 1	STELLENBOSC H	33S54 59	18E52 10	751, 25	56	0	0,16	V	SBC 2	OP E	PB S	1975/0 8/01
78 3	STEYTLERVILL E	33S19 00	24E20 40	751, 25	56	0	0,00 8	V	SBC 1	OP E	PB S	2012/0 9/12
79 9	SUPINGSTAD	24S47 24	26E01 35	751, 25	56	-20	1,3	V	SBC 1	OP E	PB S	2004/1 2/22
80 9	TABLE MOUNTAIN	33S57 26	18E24 11	751, 25	56	-20	0,59	V	SBC 3	OP E	PB S	1992/1 0/01
85 0	TZANEEN	23S47 06	30E00 17	751, 25	56	20	151	H	SBC 3	OP E	PB S	1993/1 1/01
5	ALEXANDER BAY	28S36 39	16E29 55	759, 25	57	-20	0,1	V	MN ET	OP E	C M L	1991/1 2/01
9	ALI WAL NORTH	30S47 05	26E34 00	759, 25	57	20	100	H	etv	OP E	C M L	2000/0 8/28
32	AURORA	33S49 39	18E38 29	759, 25	57	20	0,00 3	V	etv	OP E	C M L	2000/0 7/25
13 9	DOUGLAS	29S04 09	23E31 43	759, 25	57	-20	10	H	SBC 2	OP E	PB S	1986/0 4/01
15 9	EKULINDENI	26S03 18	31E00 46	759, 25	57	0	0,00 8	V	SBC 2	OP E	PB S	2010/0 6/10
18 8	FISHHOEK	34S08 59	18E26 08	759, 25	57	0	0,05	V	etv	OP E	C M L	1998/0 9/29
19 4	FRANSCHHOEK	33S54 26	19E04 23	759, 25	57	0	4	V	SBC 1	OP E	PB S	1985/0 6/01
22 9	GREYTOWN	29S00 46	30E32 10	759, 25	57	-20	10	H	etv	OP E	C M L	2000/0 8/10
37 2	KROONSTAD	27S25 17	27E11 07	759, 25	57	0	100	H	SBC 2	OP E	PB S	1975/1 2/01
43 4	MADINONYAN E	26S48 42	23E46 58	759, 25	57	0	0,04	V	SBC 2	OP	PB S	
47 5	MENLO PARK	25S46 16	28E16 05	759, 25	57	0	0,04	V	SBC 1	OP E	PB S	1985/1 0/01
52 9	MULBARTON	26S17 38	28E03 56	759, 25	57	20	0,03	V	SBC 1	OP E	PB S	1986/0 9/01
53 9	NELSPOORT	32S06 36	23E02 05	759, 25	57	0	0,00 8	V	SBC 3	OP E	PB S	2008/0 4/10
57 7	NTOMBENI	29S40 52	30E12 09	759, 25	57	0	0,03 98	V	SBC 2	OP E	PB S	2010/0 9/01
60 8	PAULPIETERSB URG	27S26 49	030E50 31	759, 25	57	0	0,1	V	SBC 2	OP	PB S	
61 1	PEARSTON	32S35 12	25E08 17	759, 25	57	0	0,00 8	V	SBC 2	OP E	PB S	2012/0 2/15
66 4	PORT ELIZABETH CITY	33S55 28	25E35 29	759, 25	57	0	2	V	SBC 1	OP E	PB S	1985/0 6/01
67 4	PORT ST JOHNS	31S36 39	29E31 39	759, 25	57	0	1	H	SBC 2	OP E	PB S	1992/1 1/01

71 1	RIEMVASMAA K	28S27 36	20E19 47	759, 25	57	0	0,00 8	V	SBC 2	OP E	PB S	2012/1 0/17
76 0	SOMERSET EAST	32S42 45	25E34 41	759, 25	57	0	0,05	V	SBC 3	OP E	PB S	1997/1 1/30
78 7	STRAALHOEK	30S20 49	29E50 53	759, 25	57	-20	10	V	SBC 2	OP E	PB S	2003/0 5/23
83 6	TSHAMAVUDZI	22S39 15	30E31 42	759, 25	57	-20	5	V	SBC 1	OP E	PB S	1990/1 2/01
90 4	VILLIERSDORP	33S58 10	19E30 22	759, 25	57	-20	112	H	etv	OP E	C M L	1998/1 2/03
91 7	VREDESVALLEI	28S30 10	20E11 01	759, 25	57	0	0,00 8	V	SBC 2	OP E	PB S	2012/1 1/14
92 0	VRISCHGEWAA GD	25S22 00	28E55 51	759, 25	57	0	0,02	V	SBC 2	OP E	PB S	2012/0 7/24
92 8	WAKKERSTRO OM	27S20 28	30E09 43	759, 25	57	0	0,00 8	V	SBC 2	OP E	PB S	2011/1 2/15
94 1	WILLOWMORE	33S14 05	23E27 36	759, 25	57	-20	10	H	SBC 2	OP E	PB S	1987/0 4/01
91	CAPE TOWN	34S03 18	18E23 11	767, 25	58	0	10	H	etv	OP E	C M L	1998/0 9/29
10 5	CHRISTIANA	27S53 03	24E55 50	767, 25	58	20	10	H	SBC 1	OP E	PB S	1986/0 4/01
16 4	ELLIOT	31S10 36	27E51 57	767, 25	58	-20	0,4	V	SBC 2	OP E	PB S	1988/0 8/01
43 7	MAKADIMA	25S26 41	25E49 10	767, 25	58	0	0,25 12	V	SBC 2	OP E	PB S	2012/0 6/21
53 6	NATURE'S VALLEY	33S58 24	23E34 28	767, 25	58	0	0,00 8	V	SBC 2	OP E	PB S	2012/0 2/14
56 7	NONGOMA	27S54 18	31E39 27	767, 25	58	20	10	H	SBC 1	OP E	PB S	1987/1 2/01
43	BETHLEHEM	28S14 10	28E29 58	775, 25	59	-20	100	H	etv	OP E	C M L	2000/0 9/12
10 2	CHRISSIESMEE R	26S16 37	30E13 53	775, 25	59	0	0,00 8	V	SBC 2	OP E	PB S	2011/1 2/15
18 9	FISHHOEK	34S08 59	18E26 08	775, 25	59	-20	0,05	V	SBC 1	OP E	PB S	1994/0 2/01
19 5	FRANSCHHOEK	33S54 26	19E04 23	775, 25	59	0	4	V	etv	OP E	C M L	1998/0 9/29
23 3	GREYTOWNDO RP	29S02 08	30E36 49	775, 25	59	-20	0,03	V	SBC 1	OP E	PB S	1993/1 0/01
32 6	KELOKILWE	26S54 34	23E47 00	775, 25	59	0	0,04	V	SBC 2	OP	PB S	
34 6	KLEINSEE	29S40 05	17E04 19	775, 25	59	0	0,00 8	V	SBC 2	OP	PB S	
36 8	KRAKEELRIVIE R	33S48 49	23E43 30	775, 25	59	0	0,03 98	V	SBC 2	OP E	PB S	2012/0 9/26
44 1	MANDINI	29S08 33	31E25 33	775, 25	59	0	0,00 8	V	SBC 2	OP E	PB S	2011/1 1/16

53 0	MULBARTON	26S17 38	28E03 56	775, 25	59	20	0,03	V	etv	OP E	C M L	2000/0 7/25
57 2	NQUTU	28S15 43	30E40 42	775, 25	59	20	15,1	V	SBC 2	OP E	PB S	2003/0 1/31
58 0	NYLSTROOM	24S47 58	28E25 59	775, 25	59	20	1	V	SBC 1	OP E	PB S	1985/1 0/01
74 2	SEA POINT	33S54 33	18E23 51	775, 25	59	20	0,3	V	etv	OP E	C M L	1998/0 9/29
79 6	SUNNYSIDE	25S45 58	28E12 21	775, 25	59	0	1	V	SBC 3	OP E	PB S	1990/0 8/01
80 2	SUURBERG	33S14 55	25E34 27	775, 25	59	-20	40	H	SBC 2	OP E	PB S	1979/0 4/01
83 0	TJAKASTAD	25S58 51	30E48 32	775, 25	59	0	0,00 8	V	SBC 2	OP E	PB S	2011/1 2/15
86 8	UMTATA	31S35 48	28E44 36	775, 25	59	0	10	H	SBC 2	OP E	PB S	1989/0 1/01
35	BARRYDALE	33S53 56	020E43 27	783, 25	60	0	0,00 8	V	SBC 2	OP	PB S	
47	BETHULIE	30S29 32	025E58 27	783, 25	60	0	0,00 8	V	SBC 1	OP	PB S	
56	BEZ VALLEY	26S11 41	28E05 00	783, 25	60	-20	0,07	V	SBC 1	OP E	PB S	1985/0 7/01
13 7	DONNYBROOK	29S54 56	29E51 19	783, 25	60	0	240	H	SBC 3	OP	PB S	1998/0 9/01
21 0	GEORGE	33S55 38	22E27 03	783, 25	60	20	17	H	etv	OP E	C M L	1998/0 9/29
25 0	HEIDELBERG	26S29 19	28E20 48	783, 25	60	20	0,1	V	SBC 3	OP E	PB S	1991/0 9/01
28 0	HOUT BAY	34S00 46	18E20 51	783, 25	60	0	2,5	V	SBC 2	OP E	PB S	1977/0 8/01
32 3	KEIMOGES	28S43 00	20E59 50	783, 25	60	0	0,03 98	V	SBC 2	OP E	PB S	2012/0 9/30
33 8	KING WILLIAMS TOWN	32S40 44	27E15 36	783, 25	60	-20	18,2	H	SBC 1	OP E	PB S	1987/0 8/01
37 6	KURUMAN	27S21 05	23E18 49	783, 25	60	-20	5	H	SBC 2	OP E	PB S	2005/0 4/08
38 2	LADYBRAND	29S10 18	27E22 42	783, 25	60	20	2	H	SBC 1	OP E	PB S	1993/0 8/01
46 1	MATATIELE LP	30S19 27	028E46 37	783, 25	60	0	0,04	V	SBC 2	OP	PB S	
54 8	NEWCASTLE	27S43 07	29E57 12	783, 25	60	0	1	V	SBC 1	OP	PB S	1985/0 8/01
59 9	PATENSIE	33S45 35	24E49 42	783, 25	60	0	0,01	V	SBC 1	OP E	PB S	1986/1 1/01
71 9	RUSTENBURG	25S36 59	27E07 05	783, 25	60	0	16	H	SBC 3	OP E	PB S	1995/1 1/01
72 4	SABIE	25S07 46	30E45 35	783, 25	60	0	0,1	V	SBC 1	OP E	PB S	2007/1 2/13
76 6	STANDERTON	26S57 37	29E12 51	783, 25	60	0	0,1	V	SBC 1	OP E	PB S	1986/1 1/01

77 2	STELLENBOSC H	33S54 59	18E52 10	783, 25	60	0	0,16	V	SBC 1	OP E	PB S	1985/0 6/01
78 4	STEYTLERVILL E	33S19 00	24E20 40	783, 25	60	0	0,00 8	V	SBC 2	OP E	PB S	2012/0 9/12
80 0	SUPINGSTAD	24S47 24	26E01 35	783, 25	60	-20	1,3	V	SBC 2	OP E	PB S	2004/1 2/22
81 0	TABLE MOUNTAIN	33S57 26	18E24 11	783, 25	60	-20	0,3	V	CSN	OP E	C M L	1993/0 9/01
85 1	TZANEEN	23S47 06	30E00 17	783, 25	60	20	151, 4	H	SBC 1	OP E	PB S	1989/0 4/01
89 8	VILLIERS	27S02 08	28E36 57	783, 25	60	0	0,00 8	V	SBC 3	OP E	PB S	2009/1 0/09

## **5. ANNEXURE 3 - DTT CHANNELS ABOVE 694 MHZ**



**1. NORTHERN CAPE DTT CHANNELS ABOVE 694 MHz**

STATION	PROVINCE	SERV_CODE	TX FREQ	TX CHANNEL	TV OFFSET	TX OUT PWR	ERP SPEC
Garies	NC	DTT1	738	54	X	2	31.6979
Douglas	NC	DTT1	746	55	X	1	10
Pofadder	NC	DTT1	746	55	X	1	10
De Aar	NC	DTT1	754	56	X	5	50
Garies	NC	DTT2	770	58	X	1.9	30.113
Douglas	NC	DTT2	778	59	X	1	10
Pofadder	NC	DTT2	778	59	X	1	10
De Aar	NC	DTT2	786	60	X	5	50

**2. LIMPOPO DTT CHANNELS ABOVE 694 MHz**

STATION	PROVINCE	SERV_CODE	TX FREQ	TX CHANNEL	TX OUT PWR	ERP SPEC
Potgietersrus	LP	DTT2	722	52	0.8	9.8422
Thabazimbi	LP	DTT2	706	50	0.74	9.9823
Tolwe	LP	DTT2	714	51	1	15.8489
Tzaneen	LP	DTT1	770	58	1.3	20.6036
Tzaneen	LP	DTT2	802	62	1.3	20.6036

### 3. MPUMALANGA DTT CHANNELS ABOVE 694 MHz

STATION	PROVINCE	SERV_CODE	TX_FREQ	TX_CHANNEL	TX_OUT_PWR	ERP_SPEC
Dullstroom	MP	DTT2	714	51	0.5	5
Nelspruit	MP	DTT1	738	54	0.66	9.9895
Middelburg	MP	DTT2	754	56	5	50
Piet retief	MP	DTT1	754	56	0.66	9.9895
Dullstroom	MP	DTT1	762	57	0.5	5
Nelspruit	MP	DTT2	770	58	0.66	9.9895
Volksrust	MP	DTT1	770	58	1.35	10.0077
Middelburg	MP	DTT1	786	60	5	50
Piet retief	MP	DTT2	786	60	0.66	9.9895
Mbuzini	MP	DTT1	802	62	0.2	2
Volksrust	MP	DTT2	802	62	1.35	10.0077
Carolina	MP	DTT1	818	64	1	10
Carolina	MP	DTT2	834	66	1	10
Mbuzini	MP	DTT2	834	66	0.2	2

### 4. NORTH WEST DTT CHANNELS ABOVE 694 MHz

STATION	PROVINCE	SERV_CODE	TX_FREQ	TX_CHANNEL	TX_OUT_PWR	ERP_SPEC
Groot Marico	NW	DTT2	714	51	0.02	0.2
Swartruggens	NW	DTT2	714	51	0.05	0.5
Taung	NW	DTT2	714	51	1	17.378
Rustenburg	NW	DTT2	730	53	0.32	5.0717
Enzelsberg	NW	DTT1	738	54	0.1	1
Motswedi	NW	DTT1	738	54	0.5	7.0627

Christiana	NW	DTT1	754	56	0.1	1
Klerksdorp	NW	DTT1	754	56	1	10
Enzelsberg	NW	DTT2	770	58	0.1	1
Motswedi	NW	DTT2	770	58	0.5	7.0627
Madibogo	NW	DTT1	778	59	0.2	3.9905
Christiana	NW	DTT2	786	60	0.1	1
Klerksdorp	NW	DTT2	786	60	1	10
Madibogo	NW	DTT2	810	63	0.2	3.9905
Supingstad	NW	DTT1	818	64	0.16	2.0143
Supingstad	NW	DTT2	850	68	0.16	2.0143

## 5. FREE STATE DTT CHANNELS ABOVE 694 MHz

STATION	PROVINCE	SERV_CODE	TX_FREQ	TX_CHANNEL	TX_OUT_PWR	ERP_SPEC
Ficksburg Town	FS	DTT2	698	49	0.01	0.0501
Senekal	FS	DTT1	706	50	1	10
Bloemfontein	FS	DTT1	722	52	5	70.6269
Senekal	FS	DTT2	738	54	0.1	1
Witsieshoek	FS	DTT2	738	54	0.02	0.1002
Bloemfontein	FS	DTT2	746	55	5	70.6269
Dewetsdorp	FS	DTT1	802	62	0.002	0.01
Dewetsdorp	FS	DTT1	834	66	0.002	0.01
Dewetsdorp	FS	DTT2	834	66	0.002	0.01

## 6. EASTERN CAPE DTT CHANNELS ABOVE 694 MHz

STATION	PROVINCE	SERV_CODE	TX_FREQ	TX_CHANNEL	TX_OUT_PWR	ERP_SPEC
Despatch	EC	DTT2	698	49	0.01	0.1995
King Williams Town	EC	DTT1	698	49	0.99	18.015
Port Elizabeth	EC	DTT2	698	49	5	72.272
Port Elizabeth city	EC	DTT2	698	49	0.1	1.9953
Sterkspruit	EC	DTT2	698	49	1	19.9526
Grahamstown	EC	DTT1	706	50	1.6	20.612
Matatiele	EC	DTT2	706	50	1	10
Burgersdorp	EC	DTT2	714	51	0.01	0.1
Willowmore	EC	DTT2	714	51	0.1	1

Patensie	EC	DTT2	722	52	0.01	0.0501
East London	EC	DTT1	770	58	4	50.357
Somerset east	EC	DTT1	794	61	0.01	0.0501
East London	EC	DTT2	802	62	4	50.357
Elliot	EC	DTT1	802	62	0.05	0.3972
Holy cross	EC	DTT1	802	62	3	30
Mount Ayliff	EC	DTT1	802	62	1	10
Holy cross	EC	DTT2	818	64	3	30
Mount Ayliff	EC	DTT2	818	64	1	10
Somerset East	EC	DTT2	826	65	0.01	0.0501
Elliot	EC	DTT2	834	66	0.05	0.3972

## 7. KWA-ZULU NATAL DTT CHANNELS ABOVE 694 MHz

STATION	PROVICE	SERV_CODE	TX_FREQ	TX_CHANNEL	TX_OUT_PWR	ERP_SPEC
Durban	KN	DTT2	706	50	5	61.5134
Howick	KN	DTT2	706	50	0.002	0.008
Louwsburg	KN	DTT2	706	50	1	14.1254
Overport	KN	DTT2	706	50	0.1	1.2589
Pietermaritzburg	KN	DTT2	706	50	0.1	1
The bluff	KN	DTT2	706	50	0.1	1.2589
Straalhoek	KN	DTT1	714	51	1	10
Glencoe	KN	DTT2	722	52	1	10
Ubombo	KN	DTT1	730	53	1	10
Straalhoek	KN	DTT2	738	54	1	10
Empangeni	KN	DTT2	754	56	0.005	0.05
Eshowe	KN	DTT2	754	56	0.79	9.9455
Qudeni	KN	DTT2	754	56	1	15.1356

Ulundi	KN	DTT2	754	56	1	10
Ubombo	KN	DTT2	762	57	1	10
Greytown	KN	DTT1	770	58	1	10
Greytowndorp	KN	DTT1	770	58	0.002	0.0303
Empangeni	KN	DTT1	786	60	0.005	0.05
Eshowe	KN	DTT1	786	60	0.79	9.9455
Qudeni	KN	DTT1	786	60	1	15.1356
Ulundi	KN	DTT1	786	60	1	10
Greytown	KN	DTT2	802	62	1	10
Greytowndorp	KN	DTT2	802	62	0.002	0.0303
Nqutu	KN	DTT1	810	63	1	15.1356
Donnybrook	KN	DTT1	818	64	0.83	9.9788
Mooi River	KN	DTT2	842	67	1	10
Donnybrook	KN	DTT2	850	68	0.83	9.9788

#### 8. WESTERN CAPE DTT CHANNELS ABOVE 694 MHz

STATION	PROVINCE	SERV_CODE	TX_FREQ	TX_CHANNEL	TX_OUT_PWR	ERP_SPEC
Amanda glen	WC	DTT2	706	50	0.001	0.02
Aurora	WC	DTT2	706	50	0.0004	0.0011
Cape town	WC	DTT2	706	50	2	20
Fishhoek	WC	DTT2	706	50	0.01	0.0501
Franschhoek	WC	DTT2	706	50	0.05	0.9976
Grabouw	WC	DTT2	706	50	0.05	0.5
Hout bay	WC	DTT2	706	50	0.1	2.5119
Paarl	WC	DTT2	706	50	0.25	2.5
Sea point	WC	DTT2	706	50	0.1	0.2818
Simonstown	WC	DTT2	706	50	0.01	0.2042

Stellenbosch	WC	DTT2	706	50	0.063	0.5004
Table mountain	WC	DTT2	706	50	0.085	0.5005
Tygerberg	WC	DTT2	706	50	0.2	2
Matjiesfontein	WC	DTT2	714	51	1	10
Plettenberg Bay	WC	DTT2	714	51	0.05	0.1256
Vanrhynsdorp	WC	DTT2	722	52	5	50
Villiersdorp	WC	DTT1	730	53	0.89	9.986
Uniondale	WC	DTT2	746	55	0.1	2.5119
Uniondale town	WC	DTT2	746	55	0.002	0.005
George	WC	DTT1	818	64	2	33.9649
Villiersdorp	WC	DTT2	826	65	0.89	9.986
George	WC	DTT2	850	68	2	33.9649

## 9. GAUTENG DTT CHANNELS ABOVE 694 MHz

STATION	PROVINCE	SERV_CODE	TX_FREQ	TX_CHANNEL	TX_OUT_PWR	ERP_SPEC
Heidelberg	GP	DTT2	706	50	0.01	0.1
Bez valley	GP	DTT1	738	54	0.02	0.0693
Helderkruin	GP	DTT1	738	54	0.1	1
Johannesburg	GP	DTT1	738	54	5	50
Linmeyer	GP	DTT1	738	54	0.5	0.9976
Menlo park	GP	DTT1	738	54	0.02	0.0399
Mondeor	GP	DTT1	738	54	0.005	0.0223
Mulbarton	GP	DTT1	738	54	0.01	0.0302
Pretoria	GP	DTT1	738	54	7.3	100.7681
Pretoria North	GP	DTT1	738	54	0.0032	0.0202

Sunnyside	GP	DTT1	738	54	0.1	1
Bez valley	GP	DTT2	770	58	0.02	0.0693
Helderkruijn	GP	DTT2	770	58	0.1	1
Johannesburg	GP	DTT2	770	58	5	50
Linmeyer	GP	DTT2	770	58	0.5	0.9976
Menlo park	GP	DTT2	770	58	0.02	0.0399
Mondeor	GP	DTT2	770	58	0.005	0.0223
Mulbarton	GP	DTT2	770	58	0.01	0.0302
Pretoria	GP	DTT2	770	58	7.3	100.7681
Pretoria north	GP	DTT2	770	58	0.0032	0.0202
Sunnyside	GP	DTT2	770	58	0.1	1

**-END-**