



## **Basic Assessment Report in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended, and the Environmental Impact Assessment Regulations, 2014 (Version 1)**

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Kindly note that:

1. This **Basic Assessment Report** is the standard report required by GDARD in terms of the EIA Regulations, 2014.
2. This application form is current as of 8 December 2014. It is the responsibility of the EAP to ascertain whether subsequent versions of the form have been published or produced by the competent authority.
3. **A draft Basic Assessment Report must be submitted, for purposes of comments within a period of thirty (30) days, to all State Departments administering a law relating to a matter likely to be affected by the activity to be undertaken.**
4. **A draft Basic Assessment Report (1 hard copy and two CD's) must be submitted, for purposes of comments within a period of thirty (30) days, to a Competent Authority empowered in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended to consider and decide on the application.**
5. Five (5) copies (3 hard copies and 2 CDs-PDF) of the final report and attachments must be handed in at offices of the relevant competent authority, as detailed below.
6. The report must be typed within the spaces provided in the form. The size of the spaces provided is not necessarily indicative of the amount of information to be provided. The report is in the form of a table that can extend itself as each space is filled with typing.
7. Selected boxes must be indicated by a cross and, when the form is completed electronically, must also be highlighted.
8. An incomplete report may lead to an application for environmental authorisation being refused.
9. **Any report that does not contain a titled and dated full colour large scale layout plan of the proposed activities including a coherent legend, overlain with the sensitivities found on site may lead to an application for environmental authorisation being refused.**
10. The use of "not applicable" in the report must be done with circumspection because if it is used in respect of material information that is required by the competent authority for assessing the application, it may result in the application for environmental authorisation being refused.
11. No faxed or e-mailed reports will be accepted. Only hand delivered or posted applications will be accepted.
12. Unless protected by law, and clearly indicated as such, all information filled in on this application will become public information on receipt by the competent authority. The applicant/EAP must provide any interested and affected party with the information contained in this application on request, during any stage of the application process.
13. Although pre-application meeting with the Competent Authority is optional, applicants are advised to have these meetings prior to submission of application to seek guidance from the Competent Authority.

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### **DEPARTMENTAL DETAILS**

Gauteng Department of Agriculture and Rural Development  
Attention: Administrative Unit of the of the Environmental Affairs Branch  
P.O. Box 8769  
Johannesburg  
2000

Administrative Unit of the of the Environmental Affairs Branch  
Ground floor Diamond Building  
11 Diagonal Street, Johannesburg

Administrative Unit telephone number: (011) 240 3377  
Department central telephone number: (011) 240 2500

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(For official use only)

<b>NEAS Reference Number:</b>						
<b>File Reference Number:</b>						
<b>Application Number:</b>						
<b>Date Received:</b>						

If this BAR has not been submitted within 90 days of receipt of the application by the competent authority and permission was not requested to submit within 140 days, please indicate the reasons for not submitting within time frame.

Is a closure plan applicable for this application and has it been included in this report?

NO

if not, state reasons for not including the closure plan.

Vodacom is of the intention to erect a 30m lattice mast. There is no intention of removing the mast after it has been erected. Should Vodacom decide to remove the proposed mast in future, then an Environmental Management Program will be submitted to the Department for the demolishing of the site.

Has a draft report for this application been submitted to a competent authority and all State Departments administering a law relating to a matter likely to be affected as a result of this activity?

YES

Is a list of the State Departments referred to above attached to this report including their full contact details and contact person?

YES

If no, state reasons for not attaching the list.

-

Have State Departments including the competent authority commented?

NO

If no, why?

The Draft Basic Assessment Report was only sent out now to comment on.

# SECTION A: ACTIVITY INFORMATION

## 1. PROPOSAL OR DEVELOPMENT DESCRIPTION

**Project title (must be the same name as per application form):**

Vodacom Mast: Piet Retief Street

Select the appropriate box

The application is for an upgrade of an existing development

The application is for a new development

Other, specify

Does the activity also require any authorisation other than NEMA EIA authorisation?

YES

If yes, describe the legislation and the Competent Authority administering such legislation

Special Consent in terms of Clause 19 of the Carletonville Town Planning Scheme, 1993. The Merafong Local Municipality administering this legislation.

If yes, have you applied for the authorisation(s)?

If yes, have you received approval(s)? (attach in appropriate appendix)

NO

## 2. APPLICABLE LEGISLATION, POLICIES AND/OR GUIDELINES

List all legislation, policies and/or guidelines of any sphere of government that are applicable to the application as contemplated in the EIA regulations:

Title of legislation, policy or guideline:

Administering authority:

Promulgation Date:

National Environmental Management Act, 1998 (Act No. 107 of 1998 as amended).	National & Provincial	27 November 1998
Clause 19 of the Carletonville Town Planning Scheme, 1993	Merafong Local Municipality	1993
Constitution of South Africa Act No. 108 of 1996	National & Provincial	18 December 1996
National Environmental Management: Biodiversity Act No. 10 of 2004	National & Provincial	7 June 2004
Section 2 of the National Heritage Resources Act, 1999, (Act No. 25 of 1999)	SAHRA	1999

Description of compliance with the relevant legislation, policy or guideline:

Legislation, policy or guideline	Description of compliance
Clause 19 of the Carletonville Town Planning Scheme, 1993	The Land Use Application will be submitted to the Merafong Local Municipality, once the Environmental Authorisation has been issued.

## 3. ALTERNATIVES

Describe the proposal and alternatives that are considered in this application. Alternatives should include a consideration of all possible means by which the purpose and need of the proposed activity could be accomplished. The determination of whether the site or activity (including different processes etc.) or both is appropriate needs to be informed by the specific circumstances of the activity and its environment.

The no-go option must in all cases be included in the assessment phase as the baseline against which the impacts of the other alternatives are assessed. **Do not** include the no go option into the alternative table below.

**Note:** After receipt of this report the competent authority may also request the applicant to assess additional alternatives that could possibly accomplish the purpose and need of the proposed activity if it is clear that realistic alternatives have not been considered to a reasonable extent.

Please describe the process followed to reach (decide on) the list of alternatives below

Provide a description of the alternatives considered

No.	Alternative type, either alternative: site on property, properties, activity, design, technology, energy,	Description

	operational or other(provide details of "other")	
1	Proposal	Construction of a 30m lattice mast with antennae mounted onto the mast, and container housing associated equipment.
2	Alternative 1	Construction of a 30m lattice mast with antennae mounted onto the mast, and container housing associated equipment.
3	Alternative 2	Construction of a 30m lattice mast with antennae mounted onto the mast, and container housing associated equipment.

This project will consist of an individual mast. The mast site will consist of the following components:

- A site measuring approximately 8m x 10m in extent.
- A lattice mast measuring approximately 30 meters in height.
- A container measuring 2.4mx3.8mx2.4m in extent, housing electronic equipment surrounded by a steel palisade fence. A container measuring 1.4 m x 1.2 m and 1.3m high in extent, housing electronic equipment surrounded by a steel palisade fence.

See Figure 1 for location.



Figure 1: Location map

In the event that no alternative(s) has/have been provided, a motivation must be included in the table below.

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#### 4. PHYSICAL SIZE OF THE ACTIVITY

Indicate the total physical size (footprint) of the proposal as well as alternatives. Footprints are to include all new infrastructure (roads, services etc), impermeable surfaces and landscaped areas:

Proposed activity (**Total environmental (landscaping, parking, etc.) and the building footprint**)

**Size of the activity:**

0,008ha / 80m<sup>2</sup>

**Alternatives:**

Alternative 1 (if any)

Alternative 2 (if any)

0,008ha / 80m<sup>2</sup>

0,008ha / 80m<sup>2</sup>

Ha/ m<sup>2</sup>

or, for linear activities:

Proposed activity

**Alternatives:**

Alternative 1 (if any)

Alternative 2 (if any)

**Length of the activity:**

--


m/km

Indicate the size of the site(s) or servitudes (within which the above footprints will occur):

Proposed activity

**Alternatives:**

Alternative 1 (if any)

Alternative 2 (if any)

**Size of the site/servitude:**

0,008ha / 80m<sup>2</sup>

0,008ha / 80m<sup>2</sup>

0,008ha / 80m<sup>2</sup>

Ha/m<sup>2</sup>

## 5. SITE ACCESS

### Proposal

Does ready access to the site exist, or is access directly from an existing road?

YES

If NO, what is the distance over which a new access road will be built

m

Describe the type of access road planned:

The site is located next to an existing road.

Include the position of the access road on the site plan (if the access road is to traverse a sensitive feature the impact thereof must be included in the assessment).

### Alternative 1

Does ready access to the site exist, or is access directly from an existing road?

YES

If NO, what is the distance over which a new access road will be built

m

Describe the type of access road planned:

The site is located next to an existing road.

Include the position of the access road on the site plan. (if the access road is to traverse a sensitive feature the impact thereof must be included in the assessment).

### Alternative 2

Does ready access to the site exist, or is access directly from an existing road?

YES

If NO, what is the distance over which a new access road will be built

m

Describe the type of access road planned:

The site is located next to an existing road.

Include the position of the access road on the site plan. (if the access road is to traverse a sensitive feature the impact thereof must be included in the assessment).

## PLEASE NOTE: Points 6 to 8 of Section A must be duplicated where relevant for alternatives

Section A 6-8 has been duplicated

Number of times

(only complete when applicable)

## 6. LAYOUT OR ROUTE PLAN

A detailed site or route (for linear activities) plan(s) must be prepared for each alternative site or alternative activity. It must be attached to this document. The site or route plans must indicate the following:

- the layout plan is printed in colour and is overlaid with a sensitivity map (if applicable);
- layout plan is of acceptable paper size and scale, e.g.
  - A4 size for activities with development footprint of 10sqm to 5 hectares;
  - A3 size for activities with development footprint of □ 5 hectares to 20 hectares;
  - A2 size for activities with development footprint of □ 20 hectares to 50 hectares);
  - A1 size for activities with development footprint of □ 50 hectares);
- The following should serve as a guide for scale issues on the layout plan:
  - A0 = 1: 500
  - A1 = 1: 1000
  - A2 = 1: 2000
  - A3 = 1: 4000
  - A4 = 1: 8000 (±10 000)
- shapefiles of the activity must be included in the electronic submission on the CD's;
- the property boundaries and Surveyor General numbers of all the properties within 50m of the site;
- the exact position of each element of the activity as well as any other structures on the site;
- the position of services, including electricity supply cables (indicate above or underground), water supply pipelines, boreholes, sewage pipelines, septic tanks, storm water infrastructure;
- servitudes indicating the purpose of the servitude;
- sensitive environmental elements on and within 100m of the site or sites (including the relevant buffers as prescribed by the competent authority) including (but not limited thereto):
  - Rivers and wetlands;
  - the 1:100 and 1:50 year flood line;
  - ridges;
  - cultural and historical features;
  - areas with indigenous vegetation (even if it is degraded or infested with alien species);
- Where a watercourse is located on the site at least one cross section of the water course must be included (to allow the position of the relevant buffer from the bank to be clearly indicated)

## **FOR LOCALITY MAP (NOTE THIS IS ALSO INCLUDED IN THE APPLICATION FORM REQUIREMENTS)**

- the scale of locality map must be at least 1:50 000. For linear activities of more than 25 kilometres, a smaller scale e.g. 1:250 000 can be used. The scale must be indicated on the map;
- the locality map and all other maps must be in colour;
- locality map must show property boundaries and numbers within 100m of the site, and for poultry and/or piggery, locality map must show properties within 500m and prevailing or predominant wind direction;
- for gentle slopes the 1m contour intervals must be indicated on the map and whenever the slope of the site exceeds 1:10, the 500mm contours must be indicated on the map;
- areas with indigenous vegetation (even if it is degraded or infested with alien species);
- locality map must show exact position of development site or sites;
- locality map showing and identifying (if possible) public and access roads; and
- the current land use as well as the land use zoning of each of the properties adjoining the site or sites.

## **7. SITE PHOTOGRAPHS**

Colour photographs from the center of the site must be taken in at least the eight major compass directions with a description of each photograph. Photographs must be attached under the appropriate Appendix. It should be supplemented with additional photographs of relevant features on the site, where applicable.

## **8. FACILITY ILLUSTRATION**

A detailed illustration of the activity must be provided at a scale of 1:200 for activities that include structures. The illustrations must be to scale and must represent a realistic image of the planned activity. The illustration must give a representative view of the activity to be attached in the appropriate Appendix.

# SECTION B: DESCRIPTION OF RECEIVING ENVIRONMENT

**Note:** Complete Section B for the proposal and alternative(s) (if necessary)

## Instructions for completion of Section B for linear activities

- 1) For linear activities (pipelines etc) it may be necessary to complete Section B for each section of the site that has a significantly different environment.
- 2) Indicate on a plan(s) the different environments identified
- 3) Complete Section B for each of the above areas identified
- 4) Attach to this form in a chronological order
- 5) Each copy of Section B must clearly indicate the corresponding sections of the route at the top of the next page.

Section B has been duplicated for sections of the route  times

## Instructions for completion of Section B for location/route alternatives

- 1) For each location/route alternative identified the entire Section B needs to be completed
- 2) Each alternative location/route needs to be clearly indicated at the top of the next page
- 3) Attach the above documents in a chronological order

Section B has been duplicated for location/route alternatives  times (complete only when appropriate)

## Instructions for completion of Section B when both location/route alternatives and linear activities are applicable for the application

Section B is to be completed and attachments order in the following way

- All significantly different environments identified for Alternative 1 is to be completed and attached in a chronological order; then
- All significantly different environments identified for Alternative 2 is to be completed and attached chronological order, etc.

Section B – Section of Route  (complete only when appropriate for above)

Section B – Location/route Alternative No.  (complete only when appropriate for above)

## 1. PROPERTY DESCRIPTION

**Property description:**  
(Including Physical Address and Farm name, portion etc.)

Erf 957 Oberholzer Ext 1  
Corner of Piet Retief Street & Van Riebeeck Street, Carletonville.

## 2. ACTIVITY POSITION

Indicate the position of the activity using the latitude and longitude of the centre point of the site for each alternative site. The co-ordinates should be in decimal degrees. The degrees should have at least six decimals to ensure adequate accuracy. The projection that must be used in all cases is the WGS84 spheroid in a national or local projection.

**Alternative:**

**Latitude (S):**

**Longitude (E):**

26° 21' 04,3"	27° 22' 31,6"
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**In the case of linear activities:**

**Alternative:**

- Starting point of the activity
- Middle point of the activity
- End point of the activity

**Latitude (S):**

**Longitude (E):**

°	°
°	°
°	°

For route alternatives that are longer than 500m, please provide co-ordinates taken every 250 meters along the route and attached in the appropriate Appendix

Addendum of route alternatives attached

The 21 digit Surveyor General code of each cadastral land parcel

PROPOSAL	T	0	I	Q	0	0	5	5	0	0	0	0	9	5	7	0	0	0	0	0
ALT. 1	T	0	I	Q	0	0	5	5	0	0	0	0	9	5	7	0	0	0	0	0
ALT. 2	T	0	I	Q	0	0	5	5	0	0	0	0	9	5	7	0	0	0	0	0
etc.																				

### 3. GRADIENT OF THE SITE

Indicate the general gradient of the site.

Flat

### 4. LOCATION IN LANDSCAPE

Indicate the landform(s) that best describes the site.

Plain

### 5. GROUNDWATER, SOIL AND GEOLOGICAL STABILITY OF THE SITE

a) Is the site located on any of the following?

Shallow water table (less than 1.5m deep)	<input checked="" type="checkbox"/>	NO
Dolomite, sinkhole or doline areas	<input checked="" type="checkbox"/>	NO
Seasonally wet soils (often close to water bodies)	<input checked="" type="checkbox"/>	NO
Unstable rocky slopes or steep slopes with loose soil	<input checked="" type="checkbox"/>	NO
Dispersive soils (soils that dissolve in water)	<input checked="" type="checkbox"/>	NO
Soils with high clay content (clay fraction more than 40%)	<input checked="" type="checkbox"/>	NO
Any other unstable soil or geological feature	<input checked="" type="checkbox"/>	NO
An area sensitive to erosion	<input checked="" type="checkbox"/>	NO

(Information in respect of the above will often be available at the planning sections of local authorities. Where it exists, the 1:50 000 scale Regional Geotechnical Maps prepared by Geological Survey may also be used).

b) are any caves located on the site(s)  NO

If yes to above provide location details in terms of latitude and longitude and indicate location on site or route map(s)

Latitude (S):  Longitude (E):

c) are any caves located within a 300m radius of the site(s)  NO

If yes to above provide location details in terms of latitude and longitude and indicate location on site or route map(s)

Latitude (S):  Longitude (E):

d) are any sinkholes located within a 300m radius of the site(s)  NO

If yes to above provide location details in terms of latitude and longitude and indicate location on site or route map(s)

Latitude (S):  Longitude (E):

If any of the answers to the above are "YES" or "unsure", specialist input may be requested by the Department

### 6. AGRICULTURE

Does the site have high potential agriculture as contemplated in the Gauteng Agricultural Potential Atlas (GAPA 4)?  NO

Please note: The Department may request specialist input/studies in respect of the above.

### 7. GROUNDCOVER

To be noted that the location of all identified rare or endangered species or other elements should be accurately indicated on the site plan(s).

Indicate the types of groundcover present on the site and include the estimated percentage found on site



Landscaped  
(vegetation)  
% = 100

**Please note:** The Department may request specialist input/studies depending on the nature of the groundcover and potential impact(s) of the proposed activity/ies.

Are there any rare or endangered flora or fauna species (including red list species) present on the site  YES  NO

If YES, specify and explain:

Are there any rare or endangered flora or fauna species (including red list species) present within a 200m (if within urban area as defined in the Regulations) or within 600m (if outside the urban area as defined in the Regulations) radius of the site.  YES  NO

If YES, specify and explain:

Are there any special or sensitive habitats or other natural features present on the site?  YES  NO

If YES, specify and explain:

Was a specialist consulted to assist with completing this section  YES  NO

If yes complete specialist details

Name of the specialist:

Qualification(s) of the specialist:

Postal address:

Postal code:

Telephone:  Cell:

E-mail:  Fax:

Are any further specialist studies recommended by the specialist?  YES  NO

If YES, specify:

If YES, is such a report(s) attached?  YES  NO

If YES list the specialist reports attached below

Signature of specialist: \_\_\_\_\_ Date: \_\_\_\_\_

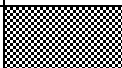
**Please note;** If more than one specialist was consulted to assist with the filling in of this section then this table must be appropriately duplicated

## 8. LAND USE CHARACTER OF SURROUNDING AREA

Using the associated number of the relevant current land use or prominent feature from the table below, fill in the position of these land-uses in the vacant blocks below which represent a 500m radius around the site

1. Vacant land	2. River, stream, wetland	3. Nature conservation area	4. Public open space	5. Koppie or ridge
6. Dam or reservoir	7. Agriculture	<b>8. Low density residential</b>	9. Medium to high density residential	10. Informal residential
11. Old age home	12. Retail	13. Offices	14. Commercial & warehousing	15. Light industrial
16. Heavy industrial <sup>AN</sup>	17. Hospitality facility	<b>18. Church</b>	19. Education facilities	20. Sport facilities
21. Golf course/polo fields	22. Airport <sup>N</sup>	23. Train station or shunting yard <sup>N</sup>	24. Railway line <sup>N</sup>	25. Major road (4 lanes or more) <sup>N</sup>
26. Sewage treatment plant <sup>A</sup>	27. Landfill or waste treatment site <sup>A</sup>	28. Historical building	29. Graveyard	30. Archeological site
31. Open cast mine	32. Underground mine	33. Spoil heap or slimes dam <sup>A</sup>	34. Small Holdings	
Other land uses (describe):				

**NOTE:** Each block represents an area of 250m X 250m, if your proposed development is larger than this please use the appropriate number and orientation of hashed blocks

	NORTH					
	8	8	8	8	8	
	8	8	8	8	8	
WEST	8	18		8	8	EAST
	8	8	8	8	8	
	8	8	8	8	8	
	SOUTH					

**Note:** More than one (1) Land-use may be indicated in a block

**Please note:** The Department may request specialist input/studies depending on the nature of the land use character of the area and potential impact(s) of the proposed activity/ies. Specialist reports that look at health & air quality and noise impacts may be required for any feature above and in particular those features marked with an <sup>“Au”</sup> and with an <sup>“N”</sup> respectively.

Have specialist reports been attached  
If yes indicate the type of reports below

 NO

### 9. SOCIO-ECONOMIC CONTEXT

Describe the existing social and economic characteristics of the area and the community condition as baseline information to assess the potential social, economic and community impacts.

The Vodacom coverage and capacity in the area is currently poor. These problems will be resolved after the mast has been erected.  
The society in general will benefit, as the cellular coverage and capacity will be improved.  
Internet access will also be better and faster.

### 10. CULTURAL/HISTORICAL FEATURES

Please be advised that if section 38 of the National Heritage Resources Act 25 of 1999 is applicable to your proposal or alternatives, then you are requested to furnish this Department with written comment from the South African Heritage Resource Agency (SAHRA) – Attach comment in appropriate annexure

38. (1) Subject to the provisions of subsections (7), (8) and (9), any person who intends to undertake a development categorised as-
- (a) the construction of a road, wall, powerline, pipeline, canal or other similar form of linear development or barrier exceeding 300m in length;
  - (b) the construction of a bridge or similar structure exceeding 50m in length;
  - (c) any development or other activity which will change the character of a site-
    - (i) exceeding 5 000 m2 in extent; or
    - (ii) involving three or more existing erven or subdivisions thereof; or
    - (iii) involving three or more erven or divisions thereof which have been consolidated within the past five years; or
    - (iv) the costs of which will exceed a sum set in terms of regulations by SAHRA or a provincial heritage resources authority;
  - (d) the re-zoning of a site exceeding 10 000 m2 in extent; or
  - (e) any other category of development provided for in regulations by SAHRA or a provincial heritage resources authority, must at the very earliest stages of initiating such a development, notify the responsible heritage resources authority and furnish it with details regarding the location, nature and extent of the proposed development.

Are there any signs of culturally (aesthetic, social, spiritual, environmental) or historically significant elements, as defined in section 2 of the National Heritage Resources Act, 1999, (Act No. 25 of 1999), including archaeological or palaeontological sites, on or close (within 20m) to the site?

 NO

If YES, explain:

If uncertain, the Department may request that specialist input be provided to establish whether there is such a feature(s) present on or close to the site.

Briefly explain the findings of the specialist if one was already appointed:

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Will any building or structure older than 60 years be affected in any way?  
Is it necessary to apply for a permit in terms of the National Heritage Resources Act, 1999  
(Act 25 of 1999)?  
If yes, please attached the comments from SAHRA in the appropriate Appendix

	NO
	NO

# SECTION C: PUBLIC PARTICIPATION (SECTION 41)

1. The Environmental Assessment Practitioner must conduct public participation process in accordance with the requirement of the EIA Regulations, 2014.

## 2. LOCAL AUTHORITY PARTICIPATION

Local authorities are key interested and affected parties in each application and no decision on any application will be made before the relevant local authority is provided with the opportunity to give input. The planning and the environmental sections of the local authority must be informed of the application at least thirty (30) calendar days before the submission of the application to the competent authority.

Was the draft report submitted to the local authority for comment?

YES	<input checked="" type="checkbox"/>
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If yes, has any comments been received from the local authority?

YES	<input type="checkbox"/>	NO	<input type="checkbox"/>
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If "YES", briefly describe the comment below (also attach any correspondence to and from the local authority to this application):

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If "NO" briefly explain why no comments have been received or why the report was not submitted if that is the case.

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## 3. CONSULTATION WITH OTHER STAKEHOLDERS

Any stakeholder that has a direct interest in the activity, site or property, such as servitude holders and service providers, should be informed of the application at least **thirty (30) calendar days** before the submission of the application and be provided with the opportunity to comment.

Has any comment been received from stakeholders?

<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>
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If "YES", briefly describe the feedback below (also attach copies of any correspondence to and from the stakeholders to this application):

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If "NO" briefly explain why no comments have been received

Due to the poor Vodacom reception in the area did the residents realise that they will benefit positively by the proposed cellular mast.
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## 4. GENERAL PUBLIC PARTICIPATION REQUIREMENTS

The Environmental Assessment Practitioner must ensure that the public participation process is adequate and must determine whether a public meeting or any other additional measure is appropriate or not based on the particular nature of each case. Special attention should be given to the involvement of local community structures such as Ward Committees and ratepayers associations. Please note that public concerns that emerge at a later stage that should have been addressed may cause the competent authority to withdraw any authorisation it may have issued if it becomes apparent that the public participation process was flawed.

The EAP must record all comments and respond to each comment of the public / interested and affected party before the application report is submitted. The comments and responses must be captured in a Comments and Responses Report as prescribed in the regulations and be attached to this application.

## 5. APPENDICES FOR PUBLIC PARTICIPATION

All public participation information is to be attached in the appropriate Appendix. The information in this Appendix is to be ordered as detailed below

Appendix 1 – Proof of site notice

Appendix 2 – Written notices issued as required in terms of the regulations

Appendix 3 – Proof of newspaper advertisements

Appendix 4 – Communications to and from interested and affected parties

Appendix 5 – Minutes of any public and/or stakeholder meetings

Appendix 6 – Comments and Responses Report

Appendix 7 – Comments from I&APs on Basic Assessment (BA) Report

Appendix 8 – Comments from I&APs on amendments to the BA Report

Appendix 9 – Copy of the register of I&APs

# SECTION D: RESOURCE USE AND PROCESS DETAILS

**Note:** Section D is to be completed for the proposal and alternative(s) (if necessary)

## Instructions for completion of Section D for alternatives

- 1) For each alternative under investigation, where such alternatives will have different resource and process details (e.g. technology alternative), the entire Section D needs to be completed
- 2) Each alternative needs to be clearly indicated in the box below
- 3) Attach the above documents in a chronological order

Section D has been duplicated for alternatives  times (complete only when appropriate)

Section D Alternative No.  (complete only when appropriate for above)

## 1. WASTE, EFFLUENT, AND EMISSION MANAGEMENT

### Solid waste management

Will the activity produce solid construction waste during the construction/initiation phase?

YES

If yes, what estimated quantity will be produced per month?

Approx. 3m<sup>3</sup>

How will the construction solid waste be disposed of (describe)?

Limited construction waste will be generated during the construction phase. Construction waste will be transported to the nearest suitable dumping site.

Where will the construction solid waste be disposed of (describe)?

A registered landfill site.

Will the activity produce solid waste during its operational phase?

NO

If yes, what estimated quantity will be produced per month?

How will the solid waste be disposed of (describe)?

-

Has the municipality or relevant service provider confirmed that sufficient air space exists for treating/dispersing of the solid waste to be generated by this activity?

NO

Where will the solid waste be disposed if it does not feed into a municipal waste stream (describe)?

Limited construction waste will be generated during the construction phase.

**Note:** If the solid waste (construction or operational phases) will not be disposed of in a registered landfill site or be taken up in a municipal waste stream, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

Can any part of the solid waste be classified as hazardous in terms of the relevant legislation?

NO

If yes, inform the competent authority and request a change to an application for scoping and EIA.

Is the activity that is being applied for a solid waste handling or treatment facility?

NO

If yes, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

Describe the measures, if any, that will be taken to ensure the optimal reuse or recycling of materials:

### Liquid effluent (other than domestic sewage)

Will the activity produce effluent, other than normal sewage, that will be disposed of in a municipal sewage system?

NO

If yes, what estimated quantity will be produced per month?

If yes, has the municipality confirmed that sufficient capacity exist for treating / disposing of the liquid effluent to be generated by this activity (ies)?

Will the activity produce any effluent that will be treated and/or disposed of on site?

NO

If yes, what estimated quantity will be produced per month?

If yes describe the nature of the effluent and how it will be disposed.

Note that if effluent is to be treated or disposed on site the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA

Will the activity produce effluent that will be treated and/or disposed of at another facility?

NO

If yes, provide the particulars of the facility:

Facility name:

Contact person:

Postal address:

<input type="text"/>
<input type="text"/>
<input type="text"/>

Postal code:			
Telephone:		Cell:	
E-mail:		Fax:	

Describe the measures that will be taken to ensure the optimal reuse or recycling of waste water, if any:

--

**Liquid effluent (domestic sewage)**

Will the activity produce domestic effluent that will be disposed of in a municipal sewage system?

	NO
--	----

If yes, what estimated quantity will be produced per month?

--

If yes, has the municipality confirmed that sufficient capacity exist for treating / disposing of the domestic effluent to be generated by this activity (ies)?

--

Will the activity produce any effluent that will be treated and/or disposed of on site?

	NO
--	----

If yes describe how it will be treated and disposed off.

--

**Emissions into the atmosphere**

Will the activity release emissions into the atmosphere?

YES	
-----	--

If yes, is it controlled by any legislation of any sphere of government?

	NO
--	----

If yes, the applicant should consult with the competent authority to determine whether it is necessary to change to an application for scoping and EIA.

If no, describe the emissions in terms of type and concentration:

Base stations transmit power levels from a few watts to 100 watts or more, depending on the size of the region or "cell" that they are designed to service.

The South African Department of Health sets out safety guidelines for all emissions throughout the electromagnetic spectrum (including RF emissions from base stations). These guidelines were developed by the International Commission on Non-ionising Radiation Protection (ICNIRP). The ICNIRP guidelines were endorsed by the European Commission in July 1999. The World Health Organisation (WHO) also endorsed the use of ICNIRP as a suitable safety standard for Radio frequency. The World Health Organisation's position is that the radio frequency field around base stations are typically a fraction of the levels stated in the safety guidelines and therefore do not constitute a health risk.

**2. WATER USE**

Indicate the source(s) of water that will be used for the activity

	The activity will not use water
--	---------------------------------

If water is to be extracted from groundwater, river, stream, dam, lake or any other natural feature, please indicate the volume that will be extracted per month:

	liters
--	--------

If Yes, please attach proof of assurance of water supply, e.g. yield of borehole, in the appropriate Appendix

Does the activity require a water use permit from the Department of Water Affairs?

	NO
--	----

If yes, list the permits required

--

If yes, have you applied for the water use permit(s)?

--

If yes, have you received approval(s)? (attached in appropriate appendix)

--

**3. POWER SUPPLY**

Please indicate the source of power supply eg. Municipality / Eskom / Renewable energy source

Municipality
--------------

If power supply is not available, where will power be sourced from?

--

**4. ENERGY EFFICIENCY**

Describe the design measures, if any, that have been taken to ensure that the activity is energy efficient:

Municipal Electricity is already available in the vicinity of the site.
---

Describe how alternative energy sources have been taken into account or been built into the design of the activity, if any:

Municipal Electricity is already available in the vicinity of the site.
---

# SECTION E: IMPACT ASSESSMENT

The assessment of impacts must adhere to the minimum requirements in the EIA Regulations, 2014, and should take applicable official guidelines into account. The issues raised by interested and affected parties should also be addressed in the assessment of impacts as well as the impacts of not implementing the activity (Section 24(4)(b)(i)).

## 1. ISSUES RAISED BY INTERESTED AND AFFECTED PARTIES

Summarise the issues raised by interested and affected parties.

No interested and affected party has registered. No comments or concerns have received.

Summary of response from the practitioner to the issues raised by the interested and affected parties (including the manner in which the public comments are incorporated or why they were not included)

(A full response must be provided in the Comments and Response Report that must be attached to this report):

The consultative Basic Assessment Report will be distributed to the various stake holders.

## 2. IMPACTS THAT MAY RESULT FROM THE CONSTRUCTION AND OPERATIONAL PHASE

Briefly describe the methodology utilised in the rating of significance of impacts

### 1. Introduction

The impact assessment aims at identifying potential environmental impacts (both positive and negative impacts) and evaluating these impacts in terms of its significance. This assessment is provided in the form of a systematic analysis framework to evaluate the nature, intensity and significance of the various impacts are considered both without and with mitigation and management measures.

### 2. Impact Assessment Criteria

The assessment of the potential impacts of the envisaged development is undertaken in accordance with the broad criteria required by the integrated environmental management procedure and includes the following:

#### a. Nature of Impact

A brief description of the type of impact the proposed development will have on the affected environment.

#### b. Intensity

This criteria evaluates intensity of the impact and are rated as follows:

##### i. Minor

The activity will only have a minor impact on the affected environment in such a way that the natural processes or functions are not affected.

##### ii. Low

The activity will have a low impact on the affected environment.

##### iii. Medium

The activity will have a medium impact on the affected environment, but function and process continue, albeit in a modified way.

##### iv. High

The activity will have a high impact on the affected environment which may be disturbed to the extent where it temporarily or permanently ceases.

##### v. Very high

The activity will have a very high impact on the affected environment which may be disturbed to the extent where it temporarily or permanently ceases.

#### c. Determination of significance:

Significance is determined through a synthesis of the various impact characteristics and represents the combined effect of the extent, duration, intensity and probability of the impacts.

##### i. No significance

The impact is not substantial and does not require any mitigatory action.

##### ii. Low

The impact is of little importance, but may require limited mitigation.

##### iii. Medium

The impact is of importance and therefore considered to have a negative impact. Mitigation is required to reduce the negative impacts to acceptable levels.

##### iv. High

The impact is of great importance. Failure to mitigate, with the objective of reducing the impact to acceptable levels, could render the entire development option or entire project proposal unacceptable. Mitigation and management is

essential.

Briefly describe and compare the potential impacts (as appropriate), significance rating of impacts, proposed mitigation and significance rating of impacts after mitigation that are likely to occur as a result of the construction phase for the various alternatives of the proposed development. This must include an assessment of the significance of all impacts.

Potential impacts:	Significance rating of impacts (positive or negative):	Proposed mitigation:	Significance rating of impacts after mitigation:
Floral Disturbances	Medium - Low	<ul style="list-style-type: none"> <li>• Before any vegetation is removed, a suitably qualified person (i.e. on Environmental Control Officer request of a vegetation specialist) shall inspect the study area for any plant/ grass/tree species that could be transplanted to other similar/suitable areas.</li> <li>• All invader or exotic plant species must be removed from the site and disposed of at a landfill site.</li> <li>• Only indigenous floral species may be used during landscaping and rehabilitation.</li> </ul>	Low
Faunal Disturbances	Medium - Low	<ul style="list-style-type: none"> <li>• Snaring and hunting of fauna by construction workers on or adjacent to the site are strictly prohibited and the Local Municipality shall prosecute offenders. It should also be a condition of employment that any employees/ workers caught poaching will be dismissed.</li> <li>• Workers must be trained on how to deal with fauna species as intentional killing will not be tolerated.</li> <li>• Where possible, work should be restricted to one area at a time, as this will give the smaller birds, mammals and reptiles a chance to weather the disturbance in an undisturbed zone close to their natural territories.</li> </ul>	Low
Visual Impact	Medium - Low	<ul style="list-style-type: none"> <li>• The contractor shall comply with the visual requirements of the Environmental Authorization.</li> <li>• The contractor shall ensure that the visual impact of the construction activities is minimised.</li> </ul>	Low
Pollution	Low	<ul style="list-style-type: none"> <li>• The liberation of dust into the surrounding environment shall be effectively controlled by water spraying.</li> <li>• Machinery or equipment used on the site must not constitute a pollution hazard in respect of air pollution via excessive exhaust fumes. This shall be inspected regularly by the contractor and rectified immediately.</li> <li>• No open fires will be allowed to be made on site.</li> </ul>	Low

#### Alternative 1

Potential impacts:	Significance rating of impacts (positive or negative):	Proposed mitigation:	Significance rating of impacts after mitigation:
Floral Disturbances	Medium - Low	<ul style="list-style-type: none"> <li>• Before any vegetation is removed, a suitably qualified person (i.e. on Environmental Control Officer request of a vegetation specialist) shall inspect the study area for any plant/ grass/tree species that could be transplanted to other similar/suitable areas.</li> <li>• All invader or exotic plant species must be removed from the site and disposed of at a landfill site.</li> <li>• Only indigenous floral species may be used during landscaping and rehabilitation.</li> </ul>	Low
Faunal Disturbances	Medium - Low	<ul style="list-style-type: none"> <li>• Snaring and hunting of fauna by construction workers on or adjacent to the site are strictly prohibited and the Local Municipality shall prosecute offenders. It should also be a condition of employment that any employees/ workers caught poaching will be dismissed.</li> </ul>	Low



		<ul style="list-style-type: none"> <li>Workers must be trained on how to deal with fauna species as intentional killing will not be tolerated.</li> <li>Where possible, work should be restricted to one area at a time, as this will give the smaller birds, mammals and reptiles a chance to weather the disturbance in an undisturbed zone close to their natural territories.</li> </ul>	
Visual Impact	Medium - Low	<ul style="list-style-type: none"> <li>The contractor shall comply with the visual requirements of the Environmental Authorization.</li> <li>The contractor shall ensure that the visual impact of the construction activities is minimised.</li> </ul>	Low
Pollution	Low	<ul style="list-style-type: none"> <li>The liberation of dust into the surrounding environment shall be effectively controlled by water spraying.</li> <li>Machinery or equipment used on the site must not constitute a pollution hazard in respect of air pollution via excessive exhaust fumes. This shall be inspected regularly by the contractor and rectified immediately.</li> <li>No open fires will be allowed to be made on site.</li> </ul>	Low

#### No Go

Potential impacts:	Significance rating of impacts (positive or negative):	Proposed mitigation:	Significance rating of impacts after mitigation:
Floral disturbances	Low	No floral disturbances will occur, however the site is very degraded and overrun with alien floral species.	Low
Faunal disturbances	Low	No Faunal disturbance will occur	Low
Visual Impact	Low	No construction activities will occur.	Low
Pollution	Low	No construction activities will occur and no dust will be generated.	Low

List any specialist reports that were used to fill in the above tables. Such reports are to be attached in the appropriate Appendix.

--

Describe any gaps in knowledge or assumptions made in the assessment of the environment and the impacts associated with the proposed development.

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### 3. IMPACTS THAT MAY RESULT FROM THE DECOMMISSIONING AND CLOSURE PHASE

Briefly describe and compare the potential impacts (as appropriate), significance rating of impacts, proposed mitigation and significance rating of impacts after mitigation that are likely to occur as a result of the decommissioning and closure phase for the various alternatives of the proposed development. This must include an assessment of the significance of all impacts.

#### Proposal

Potential impacts:	Significance rating of impacts(positive or negative):	Proposed mitigation:	Significance rating of impacts after mitigation:
Fauna & Flora disturbances	Low	The property will be rehabilitated.	Low
Visual Impact	Low	The cellular mast will be removed.	Low
Pollution	Low	The property will be rehabilitated.	Low

#### Alternative 1

Potential impacts:	Significance rating of impacts(positive or negative):	Proposed mitigation:	Significance rating of impacts after mitigation:
Fauna & Flora disturbances	Low	The property will be rehabilitated.	Low
Visual Impact	Low	The cellular mast will be removed.	Low

Pollution	Low	The property will be rehabilitated.	Low
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#### Alternative 2

Potential impacts:	Significance rating of impacts(positive or negative):	Proposed mitigation:	Significance rating of impacts after mitigation:
Fauna & Flora disturbances	Low	The property will be rehabilitated.	Low
Visual Impact	Low	The cellular mast will be removed.	Low
Pollution	Low	The property will be rehabilitated.	Low

List any specialist reports that were used to fill in the above tables. Such reports are to be attached in the appropriate Appendix.

Where applicable indicate the detailed financial provisions for rehabilitation, closure and ongoing post decommissioning management for the negative environmental impacts.

## 4. CUMULATIVE IMPACTS

Describe potential impacts that, on their own may not be significant, but is significant when added to the impact of other activities or existing impacts in the environment. Substantiate response:

Should the proposed development be approved, the majority of cumulative impacts will be related to the construction phase.

- Noise pollution may upset residents in the area – to prevent this, construction activities may only take place during the daytime;
- Dust pollution could cause nuisance to surrounding residents – dust can be effectively controlled through the wetting of exposed surfaces, especially in the winter months;
- During the construction phase some safety problems (especially for the surrounding residents) may occur – in order to minimise this, site workers are not to be allowed to sleep on the construction site at night and provision for adequate security/ site supervision must be made during the day.

Subsequently, the above mentioned cumulative impacts can be mitigated if activities are correctly planned and measures are implemented to manage activities which could cause any negative cumulative impacts.

## 5. ENVIRONMENTAL IMPACT STATEMENT

Taking the assessment of potential impacts into account, please provide an environmental impact statement that sums up the impact that the proposal and its alternatives may have on the environment after the management and mitigation of impacts have been taken into account with specific reference to types of impact, duration of impacts, likelihood of potential impacts actually occurring and the significance of impacts.

#### Proposal

The environment will be temporarily affected by the moving of construction vehicles and the excavations for the construction of the development.

The duration of the impacts will only be during the construction phase. Due to the disturbed nature of the proposed site the Impacts from the proposed development will be low.

Due to the extremely limited extent of the proposed mast site (80m<sup>2</sup>), the impact upon the flora will be minimal.

The proposed development could also positively impact on the safety and security of the area, as cell phone reception will improve in the area.

Impacts can be successfully mitigated.

It is therefore suggested that the proposal be approved.

#### Alternative 1

The environment will be temporarily affected by The moving of construction vehicles and the excavations for the construction of the development.

The duration of the impacts will only be during the construction phase. Due to the disturbed nature of the proposed site the Impacts from the proposed development will be low.

Due to the extremely limited extent of the proposed mast site (80m<sup>2</sup>), the impact upon the flora will be minimal.

The proposed development could also positively impact on the safety and security of the area, as cell phone reception will improve in the area.

Impacts can be successfully mitigated.

It is therefore suggested that the proposal be approved.

#### Alternative 2

The environment will be temporarily affected by the moving of construction vehicles and the excavations for the

construction of the development.  
The duration of the impacts will only be during the construction phase. Due to the disturbed nature of the proposed site the Impacts from the proposed development will be low.  
Due to the extremely limited extent of the proposed mast site (80m<sup>2</sup>), the impact upon the flora will be minimal.  
The proposed development could also positively impact on the safety and security of the area, as cell phone reception will improve in the area.  
Impacts can be successfully mitigated.  
It is therefore suggested that the proposal be approved.

**No-go (compulsory)**

This implies that the site be left as is and that no development or alteration be done.  
The cell phone coverage and capacity will remain problematic in the area should this activity not take place. Should the mast not be built on the proposed site, then an alternative site must be planned.

**6. IMPACT SUMMARY OF THE PROPOSAL OR PREFERRED ALTERNATIVE**

For proposal:

Alternative 1 (Preferred Alternative)

For alternative:

Alternative 2

Having assessed the significance of impacts of the proposal and alternative(s), please provide an overall summary and reasons for selecting the proposal or preferred alternative.

It is evident that based on the biophysical and sociological characteristics, the site is suitable for the proposed construction of a cellular mast (only if the project is planned and managed in accordance with an approved Environmental Management Programme).  
The development will fit in with the surrounding area and create job opportunities during the construction phase.  
As already indicated, most of the construction related activities could be mitigated to an acceptable level. Furthermore no detrimental ecological impacts are anticipated.  
The community will benefit positively by the erection of the cellular mast as Vodacom reception will improve in the area.  
The mitigations outlined in this Basic Assessment Report and the Environmental Management Programme with respect to potential adverse impacts should result in limited adverse impacts on local and regional, natural and socio-economic resources.  
No "fatal flaws" or adverse impacts that cannot be mitigated are anticipated to be associated with the proposed development.  
As a result of the above mentioned information, Tekplan Environmental is of the opinion that the proposed development (only if planned, implemented and managed correctly) will in the long term have a significant positive impact on the community.  
It is therefore requested that the development be allowed to proceed, so long as the mitigation measures contained in this report and in the Environmental Management Programme (Appendix H) are implemented, so as to achieve maximum advantage from beneficial impacts, and sufficient mitigation of adverse impacts.

**7. SPATIAL DEVELOPMENT TOOLS**

Indicate the application of any spatial development tool protocols on the proposed development and the outcome thereof.

None

**8. RECOMMENDATION OF THE PRACTITIONER**

Is the information contained in this report and the documentation attached hereto sufficient to make a decision in respect of the activity applied for (in the view of the Environmental Assessment Practitioner as bound by professional ethical standards and the code of conduct of EAPASA).

YES 

If "NO", indicate the aspects that require further assessment before a decision can be made (list the aspects that require further assessment):

If "YES", please list any recommended conditions, including mitigation measures that should be considered for inclusion in any authorisation that may be granted by the competent authority in respect of the application:

The surrounding environment must not be disturbed and the site must be cleared of all waste after construction.

The applicant must adhere to Section E of this report and the attached Environmental Management Programme.

**9. THE NEEDS AND DESIREBILITY OF THE PROPOSED DEVELOPMENT (as per notice 792 of 2012, or the updated version of this guideline)**

The local community in general will benefit, as the cellular network (coverage and capacity) will be improved.

**10. THE PERIOD FOR WHICH THE ENVIRONMENTAL AUTHORISATION IS REQUIRED**  
*(CONSIDER WHEN THE ACITIVITY IS EXPECTED TO BE CONCLUDED)*

Five years.

**11. ENVIRONMENTAL MANAGEMENT PROGRAMME (EMPr)** (must include post construction monitoring requirements and when these will be concluded.)

If the EAP answers "Yes" to Point 7 above then an EMPr is to be attached to this report as an Appendix

EMPr attached

Yes

# SECTION F: APPENDIXES

The following appendixes must be attached as appropriate (this list is inclusive, but not exhaustive):

It is required that if more than one item is enclosed that a table of contents is included in the appendix

Appendix A: Site plan(s) – *(must include a scaled layout plan of the proposed activities overlain on the site sensitivities indicating areas to be avoided including buffers)*

Appendix B: Photographs

Appendix C: Facility illustration(s)

Appendix D: Route position information

Appendix E: Public participation information

Appendix F: Water use license(s) authorisation, SAHRA information, service letters from municipalities, water supply information

Appendix G: Specialist reports

Appendix H: EMPr

Appendix I: Other information

## CHECKLIST

To ensure that all information that the Department needs to be able to process this application, please check that:

- Where requested, supporting documentation has been attached;
- All relevant sections of the form have been completed.