

**PROPOSED DEVELOPMENT OF A 25M HIGH  
TELECOMMUNICATIONS MAST AND BASE STATION ON  
FARM NO. 387/25, STELLENBOSCH HILLS,  
VLOTTENBURG, WESTERN CAPE**



**POST-APPLICATION BASIC ASSESSMENT REPORT  
NOVEMBER 2017**

**PROPOSED DEVELOPMENT OF A 25M HIGH  
TELECOMMUNICATIONS MAST AND BASE  
STATION ON FARM NO. 387/25, STELLENBOSCH  
HILLS, VLOTTENBURG, WESTERN CAPE**

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**PREPARED FOR:**

**Eagle Towers SA (Pty) Ltd**  
Suite No. 35, Private Bag X4  
Die Boord  
7613  
Tel: (021) 880 0914  
Fax: (086) 726 2626

**PREPARED BY:**

**EnviroAfrica**  
  
P.O. Box 5367  
Helderberg  
7135  
Tel: (021) 851 1616  
Fax: 086 512 0154

# EXECUTIVE SUMMARY

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## Introduction

The proposed Telecommunications Base Station will be located on Farm No. 387/25, Stellenbosch Hills, Vlotenburg, Stellenbosch.

The total area of land to be cleared is 7m X 8m (56m<sup>2</sup>) to erect a 25m high monopole with antennas situated on the top of the proposed structure. Please refer to **Appendix B** for the site plans.

The site co-ordinates are 33° 57' 35.18"S, 18° 48' 0.12"E.

The development footprint for the mast including its surrounding infrastructure is approximately 56m<sup>2</sup>.

## Proposed Activity

The proposed 25m high telecommunications mast and base station will be located on on Farm No. 387/25, Stellenbosch Hills, Vlotenburg, Stellenbosch. The site (property) is being used for agricultural purposes (wine cellar). The proposed site is on a flat surface area with no natural vegetation on site (kikuyu grass), and situated outside the urban area. The proposed telecommunications mast will be a monopole mast. No new roads will be constructed as an existing access road will be utilised to gain access to the proposed site. The total area of land to be cleared is 56m<sup>2</sup> to erect a 25m high monopole mast with antennas situated on the top of the proposed structure. The base station will include equipment rooms to house the operator equipment and generator. No watercourses are present on the site or within 32m of the site. The proposed site is located adjacent to Vlotenburg Road, at the north-western corner of the property. Electricity supply and access to the site exists. The mast's base station will be closed with a fence. The site co-ordinates are 33° 57' 35.18"S, 18° 48' 0.12"E. (Please see **Appendix B**).

## Environmental Requirements

The National Environmental Management Act (NEMA, Act 107 of 1998), as amended, makes provision for the identification and assessment of activities that are potentially detrimental to the environment and which require authorisation from the competent authority based on the findings of an Environmental Assessment. NEMA is a national act, which is enforced by the Department of Environmental Affairs (DEA). In the Western Cape, these powers are delegated to the Department of Environmental Affairs & Development Planning (DEA&DP).

According to the regulations of Section 24(5) of NEMA, authorisation is required for the following:

### Government Notice R324 (Listing Notice 3):

Activity no. 3: *"The development of masts or towers of any material or type used for telecommunication broadcasting or radio transmission purposes where the mast or tower-*

- (a) is to be placed on a site not previously used for this purpose; and*
- (b) will exceed 15 metres in height-*

*but excluding attachments to existing buildings and masts on rooftops".*

### i. Western Cape:

- "i. All areas outside urban areas;**
- ii. Areas designated for conservation use in Spatial Development Frameworks adopted by the competent authority, or zoned for a conservation purpose, within urban areas; or
- iii. Areas zoned for use as public open space or equivalent zoning within urban areas".

### Site Description

The proposed 25m high telecommunications mast and base station will be located on on Farm No. 387/25, Stellenbosch Hills, Vlotenburg, Stellenbosch. The site (property) is being used for agricultural purposes (wine cellar). The proposed site is on a flat surface area with no natural vegetation on site (kikuyu grass), and situated outside the urban area. The site is disturbed and historically the site would have contained Swartland Granite Renosterveld that is classified as critically endangered.

The proposed telecommunications mast will be a monopole mast. No new roads will be constructed as an existing access road will be utilised to gain access to the proposed site. The total area of land to be cleared is 56m<sup>2</sup> to erect a 25m high monopole mast with antennas situated on the top of the proposed structure. The base station will include equipment rooms to house the operator equipment and generator. No watercourses are present on the site or within 32m of the site. Eerste River watercourse is located approximately 820m south of the proposed site. The proposed site is located adjacent to Vlotenburg Road, at the north-western corner of the property. Electricity supply and access to the site exists. The mast's base station will be closed with a fence. The site co-ordinates are 33° 57' 35.18"S, 18° 48' 0.12"E. Please refer to Appendix A for the locality map as well as Appendix B (site plans) and Appendix C for photographs of the site. Please refer to **Appendix A** for the locality map as well as **Appendix B** (site plans) and **Appendix C** for photographs of the site.

### Civil and Electrical Services

Electricity will be sourced from the land owner. The proposed development of a telecommunication mast will not produce waste or use water during its operational phase.

### Access

No new roads will be constructed as an existing access road will be utilised to gain access to the proposed site. The site is situated immediately east of Vlotenburg Road. No new roads will be constructed. Please see **Appendix A**.

### Conclusion

The proposed communication mast, allows for multiple service providers to attach and house their equipment on the mast, decreasing the need for additional communications masts to be erected in the area.

The benefits of telecommunications services in modern society are potentially limitless. The proposed activity will increase the coverage of these telecommunications services, including providing a more reliable and wider coverage.

The activity would create a more efficient telecommunications service, considered essential to the business and private sector. The data capabilities provided by the proposed mast are also important in business, education and for the public, and has thus become paramount for social and economic development.

The construction of the telecommunications mast is therefore considered as part of the essential services for the greater community.

The proposed communications mast is not expected to have any adverse effects on people's health and well-being. It is also not expected to produce any noise or odours during the operational phase. Some noise can be expected during the construction phase, but this will be temporary and the impact is expected to be negligible.

Due to the design and location of the proposed communications mast, the activity is expected to have a low impact on the visual character of the area.

No sensitive biodiversity features, no CBAs or ESAs, and no populations of threatened plant or animal species were observed on site. No cultural or historical aspects were identified on the site.

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Any potential negative impacts during the construction phase are expected to be adequately mitigated through the implementation of the Environmental Management Programme (“EMPr”) and the appointment of an Environmental Control Officer (“ECO”) during the construction phase.

Considering all the information, it is not envisaged that this proposed development will have a negative impact on the environment.

It is therefore recommended that this application be authorised with the necessary conditions of approval as described throughout this Post-Application BAR.