

**THE PROPOSED DEVELOPMENT OF 25M HIGH TELECOMMUNICATION MAST ON PORTION 36 OF FARM JOOSTENBERG VLAKTE NO. 725, KRAAIFONTEIN, WESTERN CAPE**



**PRE-APPLICATION BASIC ASSESSMENT REPORT FOR  
COMMENT  
OCTOBER 2018  
DEA&DP Ref: 16/3/3/6/7/1/A5/37/2135/18**

**PROPOSED DEVELOPMENT OF A 25M HIGH  
TELECOMMUNICATION MAST ON PORTION 36 OF  
FARM JOOSTENBERG VLAKTE NO. 725,  
KRAAIFONTEIN, WESTERN CAPE**

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**PREPARED FOR:**

**Atlas Tower (Pty) Ltd**  
First Floor, Omnipark Building, 166 Main Road,  
Paarl  
7646  
Tel: (021) 870 1302  
Fax: (086) 551 0550

**PREPARED BY:**

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

# EXECUTIVE SUMMARY

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## Proposed Activity

The proposed development of a 25m high telecommunications mast and associated infrastructure located on Portion 36 of Farm Joostenberg Vlake No. 725, Kraaifontein, Western Cape. The proposed development is to clear an area of 100m<sup>2</sup> (10m X 10m) to erect a 25m high monopole mast with antennas situated on the top of the proposed structure. The base station will include an equipment room to house the operator equipment and generator, as well as some future service provider equipment containers. Electricity will be sourced from the land owner. The site is surrounded by agricultural land uses to the North, West and directly South. Further east and south of the site consists of new residential areas. The mast's base station will be closed with a steel palisade fence. Electricity to power the mast will be sourced from the land owner. The site has no slope and is located on a flat surface area. No new roads will be constructed as an existing access road will be utilised to gain access to the proposed site. Access to the site will be gained via an existing dirt road leading towards the site. The site co-ordinates are **33° 49' 14.21" S, 18° 43' 14.84" E**. Please see Appendix B for the site plans.

## 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 R983 (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 development of a 25m high telecommunications mast and associated infrastructure located on Portion 36 of Farm Joostenberg Vlake No. 725, Kraaifontein, Western Cape. The proposed development is to clear an area of 100m<sup>2</sup> (10m X 10m) to erect a 25m high monopole mast with antennas situated on the top of the proposed structure. The base station will include an equipment room to house the operator equipment and generator, as well as some future service provider equipment containers. Electricity will be sourced from the land owner. The site is surrounded by agricultural land uses to the North, West and directly South. Further east and south of the site consists of new residential areas. The mast's base station will be closed with a steel palisade fence. Electricity to power the mast will be sourced from the land owner. The proposed site does is located on a flat surface area and contain some patches of kikuyu grass on site. No new roads will be constructed as an existing access road will be utilised to gain access to the proposed site. Access to the site will be gained via an existing dirt road leading towards the site. There is an artificial dam situated approximately 36m west of the proposed site. The site co-ordinates are **33° 49' 14.21" S, 18° 43' 14.84" E**. Please see Appendix B for the site plans. Please refer to Appendix A for the locality map as well as Appendix B (site photographs) and Appendix C for the site plans.

## 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 farm road will be utilised to gain access to the proposed site. Please see Appendix A and Appendix B.

Conclusion

The proposed 25m high telecommunication mast will allow for multiple service providers/ mobile network operators to attach and house their equipment (antennas) 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-medium impact on the visual character of the area.

The proposed site is not located within a Critical Biodiversity Area (CBA) or Ecological Support Area ("ESA"). The site is totally transformed due to past development activities. There is no natural vegetation on site, only some patches kikuyu grass. No cultural or historical aspects were identified on the site. 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 significant negative impact on the environment.

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