

**ENVIRONMENTAL IMPACT ASSESSMENT
FOR THE PROPOSED CONSTRUCTION AND
OPERATION OF A TELECOMMUNICATION LATTICE
TOWER AT VEDDERSDAL IN OKAHANDJA,
OTJOZONDJUPA REGION-NAMIBIA.**



**ENVIRONMENTAL SCOPING REPORT
FINAL**

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Acronyms

TERMS	DEFINITION
BID	Background Information Document
EAP	Environmental Assessment Practitioners
ECC	Environmental Clearance Certificate
ECO	Environmental Control Officer
EIA	Environmental Impact Assessment
ESIA	Environmental and Social Impact Assessment
EMP	Environmental Management Plan
GHG	Greenhouse Gasses
ISO	International Organization for Standardization
I&Aps	Interested and Affected Parties
JBIC	Junior Baiano Industrial Consultants
MET: DEA	Ministry of Environment and Tourism's Directorate of Environmental Affairs

EXECUTIVE SUMMARY

Junior Baiano Industrial Consultants (JBIC) cc has been engaged by **Powercom (PTY) LTD** to conduct an Environmental Impact Assessment (EIA) and develop an Environmental Management Plan (EMP) for the Construction and Operation of a Telecommunication Lattice Tower at Veddersdal in Okahandja, Otjozondjupa Region-Namibia and to apply for an Environmental Clearance Certificate for the proposed project.

The proposed establishment triggered the application for an environmental clearance certificate as the following listed activity will be triggered by the proposed communication infrastructure project.

INFRASTRUCTURE

10.1 The construction of-

(g) communication networks including towers, telecommunication and marine telecommunication lines and cables;

Anticipated Environmental Impacts

- Low potential environmental impacts because the proposed site is already disturbed from human encroachment.
- Adding on a management plan has been developed to mitigate any anticipated possible impacts of the project to the environment.
- Relative or moderate social impact (positive)

Social Impact

The project is generally expected to improve telecommunication connectivity in Okahandja and surrounding areas. Interested and Affected Parties were notified of the project through Site notices and newspaper adverts and all relevant information on consultation is covered in Chapter 4 of this document and Appendix A of the document.

Recommendations

It is concluded that most of the impacts identified during this Environmental Assessment can be addressed through the recommended mitigation and management actions for both the construction and operation phases of the tower. An Environmental Management Plan has been developed for the development.

Should the recommendations included in this report and the EMP be implemented the significance of the impacts can be reduced to reasonably acceptable standards and durations. All developments could proceed provided that general mitigation measures as set out are implemented as a minimum.

It is therefore recommended that the proposed telecommunication lattice tower receive Environmental Clearance, provided that the recommendations described above and the EMP are implemented.

1. CHAPTER ONE: BACKGROUND

1.1. INTRODUCTION

Powercom (PTY) LTD herein referred to as the proponent has identified different areas in Namibia that needs improved communication alternatives due to growth in population and economic activities. To achieve the objective of improved telecommunication connectivity, Powercom intends to establish telecommunication towers across the identified different locations. One of the identified areas that needs a telecommunication mast is Veddertsdal in Okahandja.

In terms of the Namibian environmental legislation (Environmental Management Act (No. 7 of 2007)) and the Environmental Assessment Regulations of 2012; an EIA is required to obtain an Environmental Clearance Certificate from the Ministry of Environment and Tourism (MET) before the project can proceed.

Furthermore, as per the requirements of the Environmental Management Act No. 7 of 2007, Powercom has appointed JBIC to conduct an Environmental Assessment (EA) and develop an Environmental Management Plan (EMP) for the proposed tower establishment. This has been followed by an application for Environmental Clearance Certificate (ECC) to the Ministry of Environment and Tourism (MET): Directorate of Environmental Affairs (DEA).

In this respect, this document forms part of the application to be made to the DEA's office for an Environmental Clearance certificate for the proposed Veddertsdal Telecommunication Lattice Tower, in accordance with the guidelines and statutes of the Environmental Management Act No.7 of 2007 and the environmental impacts regulations (GN 30 in GG 4878 of 6 February 2012)

1.2. PROJECT LOCATION

The project site is located in Veddertsdal Suburb in Okahandja, Otjozondjupa Region-Namibia. The Locality Map Fig 1) gives a local layout view of the project site:

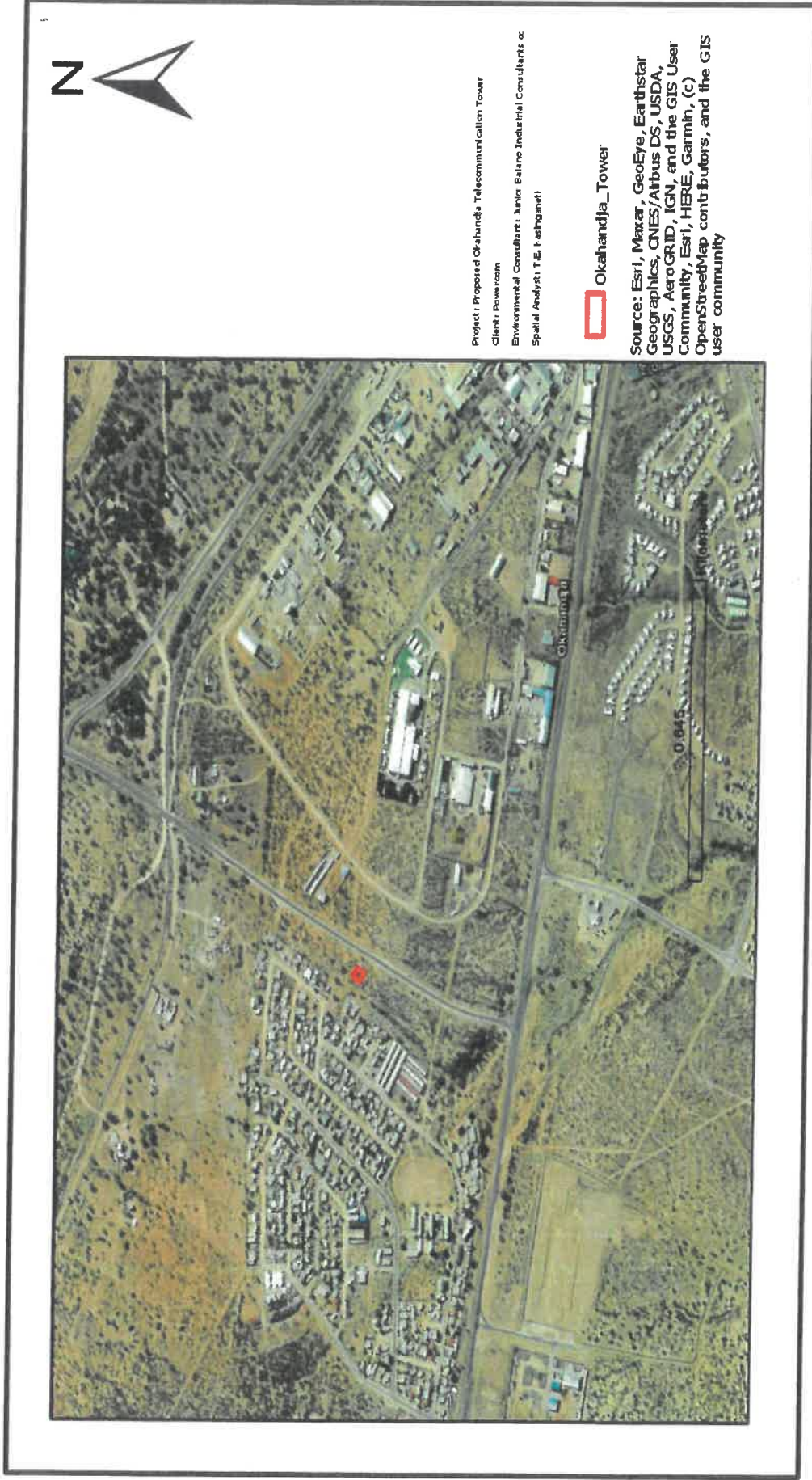


Figure 1: Proposed Project Site

Accessibility

The site is easily accessible from an existing road..

Infrastructure and Services

Water: There is already existing water supply from Okahandja Town Council

Ablution: During construction, employees will use temporary ablution, and during operation there is no need for on-site ablution.

1.4. NEED AND DESIRABILITY

The economic and social development goals of Namibia are embodied in (i) Vision 2030 and (ii) the National Development Plan 5 (NDP 5) 2017/2018 – 2021/2022 as well as NDPs 1, 2, 3, and 4. In addition, the Government has developed the Harambee Prosperity Plan (HPP) 2016/2017 – 2019/2020, which complements the Vision 2030 and NDP 5. All of the three plans set the goals, targets, and strategy for Namibia to move on a path to economic prosperity through a concerted strategy for the development of Namibia's economic growth. These Plans also include specific growth targets milestones and strategies for the sustainable deployment of Namibia's resources to achieve the stated economic and social development goals. Communication is one of the major targets aimed in the NDP5 and to stimulate development of any aspect, internet and voice connectivity is a pre-requisite. This project, is a major step in addressing the objectives of the developmental plans and targets of the Namibian government.

1.5. PROJECT ALTERNATIVES

1.5.1. SITE LOCATION ALTERNATIVES

An integrated site selection study was done in order to identify a suitable site for the proposed tower. The proposed site is considered highly desirable due to the following considerations:

- Elevation: The project location is strategic because it can allow the covering of a wider radius within Kalkveld Settlement as well as other surrounding farms.

- Land suitability:

-Sites that facilitate easy construction conditions (relatively flat land with few rock outcrops or water-bodies) were favoured during site selection.

-The site is easily accessible by road and near electrical connection to power the tower components.

It is thus, the consideration of the above criteria resulted in the selection of the preferred site. No further site location alternatives are considered in the EIA process.

1.5.2. TOWER INFRASTRUCTURE ALTERNATIVES

There are several types of telecommunication towers designs and form. In this respect, to cater for a 30m height so as to cover further into surrounding farms and mines, the proponent will invest in a 30m guyed tower.

1.5.3. CONCLUSION

Based on the preceding alternative analysis and option, the project will go ahead and will ensure maximum environmental and safety performance systems are in place.

2. CHAPTER TWO: POLICY, LEGAL AND ADMINISTRATIVE FRAMEWORK

2.1. INTRODUCTION

An important part of the EIA is identifying and reviewing the administrative, policy and legislative situation concerning the proposed activity, to inform the proponent about the requirements to be fulfilled in undertaking the construction and land servicing activities. This section looks at the legislative framework within which the proposed project will operate under. The focus is on the compliance with the legislation during the planning, construction and operational phases. All relevant legislations, policies and international statutes applying to the project are highlighted in Table 1: Legal Compliance below as specified in the Environmental Management Act, 2007 (Act No.7 of 2007) and the regulations for Environmental Impact Assessment as set out in the Schedule of Government Notice No. 30 (2012).

The pursuit of sustainability is guided by a sound legislative framework. In this section, relevant legal instruments as well as their relevant provisions have been surveyed. An explanation is provided regarding how these provisions apply to this project.

Table 1: Legal Compliance

LEGISLATION/POLICY/GUIDING DOCUMENT	PROVISION	PROJECT IMPLICATION
<p>The Constitution of the Republic of Namibia (1990)</p>	<p>The articles 91(c) and 95(i) commits the state to actively promote and sustain environmental welfare of the nation by formulating and institutionalizing policies to accomplish the sustainable objectives which include:</p> <ul style="list-style-type: none"> - Guarding against overutilization of biological natural resources, - Limiting over-exploitation of non-renewable resources, - Ensuring ecosystem functionality, - Maintain biological diversity. 	<p>-Through implementation of the environmental management plan, the proposed development will be in conformant to the constitution in terms of environmental management and sustainability, through bringing development in an environmentally sensitive way.</p>
<p>Vision 2030 and National Development Plans</p>	<p>Namibia's overall Development ambitions are articulated in the Nations Vision 2030. At the operational level, five-yearly national development plans (NDP's) are prepared in extensive consultations led by the National Planning</p>	<p>-The proposed project is an important element in the propelling and connectivity in the country.</p>

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	<p>Commission in the Office of the President. Currently the Government has so far launched a 4th NDP which pursues three overarching goals for the Namibian nation: high and sustained economic growth; increased income equality; and employment creation.</p>	
<p>Environmental Assessment Policy of Namibia 1994</p>	<p>The Environmental Assessment Policy of Namibia requires that all projects, policies, Programmes, and plans that have detrimental effect on the environment must be accompanied by an EIA. The policy provides a definition to the term "Environment" broadly interpreted to include biophysical, social, economic, cultural, historical and political components and provides reference to the inclusion of alternatives in all projects, policies, programmes and plans.</p>	<p>-The construction and operation of the tower will only commence after being awarded an environmental clearance certificate, thus by abiding to the requirements of the Environmental Assessment Policy of Namibia. The EIA and EMP will cater for the sustainable management of biophysical environment.</p>

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<p>Environmental Management Act No. 07 of 2007</p>	<p>The Act aims at</p> <ul style="list-style-type: none"> - Promoting the sustainable management of the environment and the use of natural resources by establishing principles for decision-making on matters affecting the environment; - To provide for a process of assessment and control of projects which may have significant effects on the environment; - The Act gives legislative effect to the Environmental Impact Assessment Policy. Moreover, the act also provides procedure for adequate public participation during the environmental assessment process. 	<p>-This document is compiled in a nature that project implementation is in line with the objectives of the EMA. EIA guiding procedures developed by MET were also used in the course of this project.</p>
<p>Electricity Act 4 of 2007</p>	<ul style="list-style-type: none"> - Requires that any generation and or distribution complies with laws relating to health, safety and environmental standards (s 18(4)(b)) - In the event that exemption from acquiring a license is granted, the Minister may impose conditions relating to public health safety or the protection of the environment. 	<p>-Obliges Powercom to comply with all relevant provisions of the EMA and its regulations when installing electrical connections to the tower.</p>
<p>The Atomic Energy and Radiation Protection Act, Act 5 of 2005:</p>	<p>Provides for the adequate protection of the environment and of people against the harmful effects of radiation by controlling and regulating the production, processing, handling, use, holding,</p>	<p>-Justifies the need for assessing the impact of electromagnetic radiation from the power line, on the nearby residents.</p>

	<p>storage, transport and disposal of radiation sources and radioactive materials, and controlling and regulating prescribed non-ionising radiation sources according to the standards set out by the ICNIRP.</p>	
<p>Hazardous Substances Ordinance 14 of 1974 Regulations Made In Terms Of Hazardous Substances Ordinance 14 of 1974 sections 3 and 27</p>	<p>- To provide for the control of substances which may cause injury or ill-health to or death of human beings by reason of their toxic, corrosive, irritant, strongly sensitizing or flammable nature or the generation of pressure thereby in certain circumstances; to provide for the division of such substances into groups in relation to the degree of danger; to provide for the prohibition and control of the importation, manufacture, sale, use, operation, application, modification, disposal or dumping of such substances; and to provide for matters connected therewith.</p>	<p>- Powercom will have to conform to this Act and its regulations through application for relevant licences with the relevant bodies highlighted thereto.</p>
<p>“Guidelines for Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300GHz)” (April 1998 developed by the International Commission on Non-Ionizing Radiation Protection (ICNIRP))</p>	<p>Provides international standards and guidelines for limiting the adverse effects of non-ionising radiation on human health and well-being, and, where appropriate, provides scientifically based advice on non-ionising radiation protection including the provision of guidelines on limiting exposure.</p>	<p>-Justifies the need for assessing the impact of ionising and non-ionising radiation from the operation of the network technologies to be installed on site.</p>

<p>Soil Conservation Act 76 of 1969</p>	<p>The objectives of this Act are to:</p> <ul style="list-style-type: none"> - Make provisions for the combating and prevention of soil erosion, - Promote the conservation, protection and improvement of the soil, vegetation, sources and resources of the Republic. 	<p>-The project will have a rather localized impact on soils and on the soil through clearance for tower platform. Soil protection measures will be employed and preservation of trees as much as possible.</p>
<p>Nature Conservation Ordinance 1996</p>	<p>To consolidate and amend the laws relating to the conservation of nature; the establishment of game parks and nature reserves; the control of problem animals; and to provide for matters incidental thereto.</p>	<p>The proposed project implementation is not located in any known or demarcated conservation area, national park or unique environments. The project site was selected with this ordinance in mind to ensure that Namibian nature is conserved.</p>
<p>Protected Areas and Wildlife Management Bill</p>	<p>This bill, when it comes into force, will replace the Nature Conservation Ordinance 4 of 1975. The bill recognizes that biological diversity must be maintained, and where necessary, rehabilitated and that essential ecological processes and life support systems be maintained. It protects all indigenous species and control the exploitation of all plants and wildlife.</p>	<p>Environmental recommendations and considerations on this project have ensured that the proposed activities will not fall within the boundaries of any protected area and that the project will not affect heavily endangered vegetation and animals on its site.</p>
<p>Forest Act, 2001 (Act No. 12 of 2001)</p>	<p>The Act gives provision for the protection of various plant species through the Ministry of Agriculture, Water and Forestry (MAWF), Directorate of Forestry).</p>	<p>-Land clearing of an extensive piece of land will be done upon approval from the Directorate of Forestry.</p>

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		<p>-The proponent will also have to ensure that there is no indiscriminate cutting down of trees during construction and operation</p> <p>-The proposed site is sparsely vegetated with white shrubs and grasses, which are not threatened or protected.</p>
National Rangeland Policy and Strategy, 2012	<p>The policy aims at enabling resource users (farmers and managers) to manage their rangeland resources in a sustainable manner and sustainable in that they are economically viable, socially acceptable, environmentally friendly and politically conducive.</p>	<p>-This proposed project will ensure that the local community benefits both economically and socially from the project, this in line with the recently declared Harambee Prosperity Plan and NDP 4&5.</p>
National Biodiversity Strategy and Action Plan (NBSAP2)	<p>The action plan was operationalised in a bid to make aware the critical importance of biodiversity conservation in Namibia putting together management of matters to do with ecosystems protection, biosafety, biosystematics protection on both terrestrial and aquatic systems.</p>	<p>-The project proponent has been advised by JBIC and recognises the need for ecosystems protection to manage the changing climatic environment.</p> <p>-This project is one of the drivers to reduce the rate of global environmental change given its contribution, to decreased use of burning fossil fuels for energy generation.</p>
Wetland Policy, 2004	<p>The policy provides a platform for the conserving and wise use of wetlands, thus promoting inter-generational equity regarding wetland resource utilization. Furthermore, it facilitates the Nation's</p>	<p>-In compliance to this Policy, the development will ensure a standard environmental planning such that it does not affect any wetlands within its locale through recognition of wetlands to</p>

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	<p>efforts to meet its commitments as a signatory to the International Convention on Wetlands (Ramsar) and other Multinational Environmental Agreements (MEA's).</p> <p>This Act provides for the management, protection, development, use and conservation of water resources. This also forms the regulation and monitoring of water resources.</p>	<p>promote the conservation and wise utilization of wetlands resources.</p> <p>-There are no existing wetlands/peatlands within 5km radius of the proposed project site.</p> <p>-The proposed development will not have any interference with surface and groundwater sources during construction and operation, apart from water requirements for construction which will be supplied through Okahandja water reticulation system</p>
<p>Water Resources Management Act, 2013 (Act No. 11 of 2013)</p>	<p>Heritage resources to be conserved in development.</p>	<p>-During the project implementation as soon as objects of cultural and heritage interests are observed such as graves, artefacts and any other object believed to be older than 50 years, all measures will be taken to protect these objects until the National Heritage Council of Namibia have been informed, and approval to proceed with the operations granted accordingly by the Council.</p>
<p>National Heritage Act 27 of 2004</p>	<p>"No person shall destroy, damage, excavate, alter, remove from its original site or export from Namibia: (a) any meteorite or fossil; or (b) any drawing or painting on stone or a petroglyph known or commonly believed to have been</p>	<p>-The proposed site of development is not within any known monument site both movable or immovable as specified in the Act, however in such an instance that any material or sites or archeologic importance are identified, it will be</p>
<p>National Monuments Act of Namibia (No. 28 of 1969) as amended until 1979</p>		

	<p>executed by any people who inhabited or visited Namibia before the year 1900 AD; or (c) any implement, ornament or structure known or commonly believed to have been used as a mace, used or erected by people referred to in paragraph (b); or (d) the anthropological or archaeological contents of graves, caves, rock shelters, middens, shell mounds or other sites used by such people; or (e) any other archaeological or palaeontological finds, material or object; except under the authority of and in accordance with a permit issued under this section.</p>	<p>the responsibility of the developer to take the required route and notify the relevant commission.</p>
<p>Pollution Control and Waste Management Bill</p>	<p>-This bill has not come into force. Amongst others, the bill aims to "prevent and regulate the discharge of pollutants to the air, water and land" Of particular reference to the Project is: Section 21 "(1) Subject to sub-section (4) and section 22, no person shall cause or permit the discharge of pollutants or waste into any water or watercourse." Section 55 "(1) No person may produce, collect, transport, sort, recover, treat, store, dispose of or otherwise manage waste in a manner that results in</p>	<p>-To control air, water and land pollution as agitated by the Act the project proponent will ensure that the development will prevent pollution in all forms during construction and operation phases.</p>

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	or creates a significant risk of harm to human health or the environment.”	
Communications Act, 2009 (Act No. 8 of 2009)	<ul style="list-style-type: none"> - (10) The Authority may impose specific obligations and requirements on a licensee regarding to masts, towers or other facilities including requirements relating to the environmental or aesthetic impact of such facilities; - Provide for the regulation of telecommunication activities. The bill provides licencing and enforcement of conditions, and the approval or equipment and technical standards to ensure public health and safety. - Namibia is a signatory of the Convention on Biological Diversity and thus is obliged to conserve its biodiversity. 	<p>-As a pre requisite, telecommunication towers would require environmental clearance certificates and, in this respect, Powercom authorised this EIA to obtain such.</p>
Communication Bill 2009		<p>-As per relevant spectrum, network equipment should be as per licenses.</p>
Convention on Biological Diversity (CBD)		<p>The project will preserve tree species on as part of their plans for green and sustainable development.</p>
United Nations Convection to combat Desertification	<p>Namibia is bound to prevent excessive land degradation that may threaten livelihoods.</p>	<p>It will be the responsibility of the proponent to conserve vegetation on and around the area, to avoid encroachment of the desert environs in the area.</p>

3. CHAPTER THREE: RECEIVING ENVIRONMENT

3.1. CLIMATE

Table 2: Climatic environment

Aspect	Description
Classification of climate	Okahandja has a hot semi-arid climate (Köppen: BSh), with hot summers and mild winters (with warm days and chilly nights).
Average rainfall:	346 mm per year
Temperature	The temperatures are highest on average in October, at around 25.9 °C. In June, the average temperature is 16.2 °C. It is the lowest average temperature of the whole year.
Humidity	The relative humidity during the least humid months of the year (i.e. September and October) is around 20-30% and the most humid month is March with 70-80% humidity. Namibia has a low humidity in general, and the lack of moisture in the air has a major impact on its climate by reducing cloud cover and rain and increases the rate of evaporation.
Wind direction	Predominantly Westerly winds are experienced in Okahandja.

3.2. TOPOGRAPHY

The study site is generally flat with a highest altitude of 1359 m on the Western boundary and sloping to about 1356 m to the east of the project site, with an average of about 1358 m.

3.3. GEOLOGY

The geology of Okahandja belongs to the Damara Supergroup and Gariiep Complex with the dominant soils being schists. Rocky outcrops are also recorded to occur in the region. The underlying geology is primarily schists which is known for having low groundwater potential.

Okahandja connects to the Brandberg, Erongo and Waterberg groundwater area, within an area known to have only moderately productive aquifers. The most significant aquifer in this area is the marble aquifer north-east of Otjiwarongo, with several boreholes been drilled to accommodate the demand (Ministry of Agriculture Water and Rural Development, 2011).

The surface water in the area is generally determined by the rainfall, the evapotranspiration and the amount of water that drains to the groundwater aquifers (Green Earth Environmental Consultants, 2019).

3.4. TERRESTRIAL ECOLOGY

3.4.1. FAUNA AND FLORA

Okahandja belongs to the Acacia Tree and Shrub Savanna Biome which is characterized by large, open expanses of grasslands dotted with Acacia trees (Mendelsohn, Jarvis, Roberts & Roberston, 2002). The vegetation type for Kalkveld is described as Thornbush Shrubland which comprises of various soils and dominated by Acacia shrublands. Trees commonly found within the region are Black Thorn (*Acacia mellifera*), Camel Thorn (*Acacia erioloba*) and Shepherds Tree (*Boscia albitrunca*).

Trees protected under the Forestry Act 12 of 2001 should be protected within the development of different infrastructure projects. The Kalkveld area generally demonstrates high terrestrial diversity. Plant diversity in the area is recorded to be between 300-399 species (Mendelsohn et al., 2002). Bird diversity is recorded to be between 201-230 species, mammal diversity between 91-105 species and reptile diversity between 81-85 species (Mendelsohn et al., 2002).

The project site is however not a threat to any of the protected fauna and flora species and not any major vegetation in any way since the area is already developed and urbanised. The surrounding area is overlooking residential housing to the west.

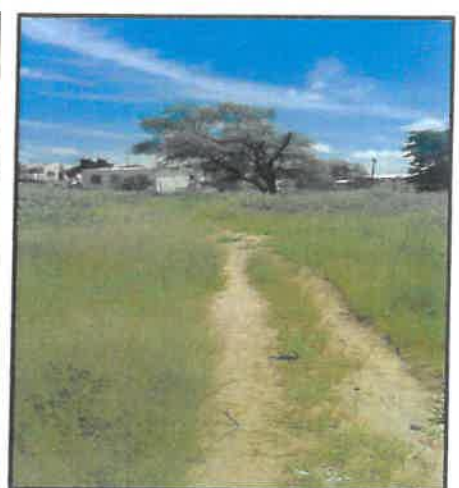
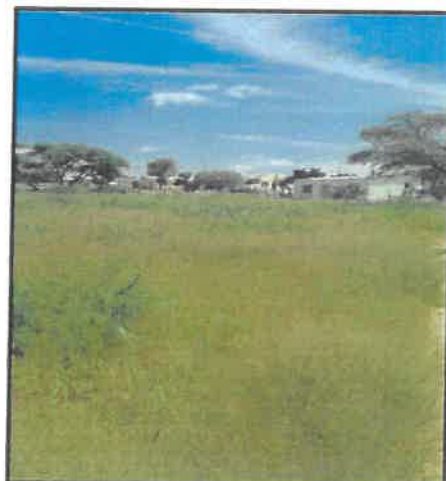
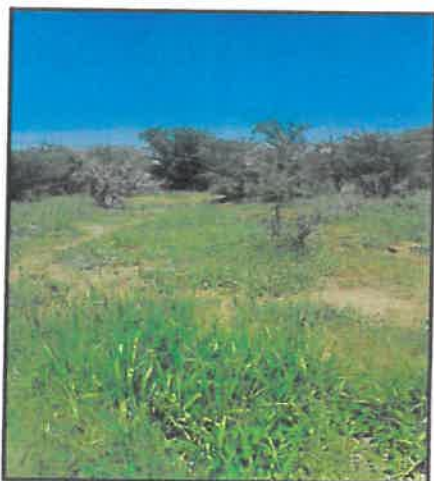


Figure 3: Left-Vegetation cover on site

Figure 4: Centre-Residential home located about 250m from the project site.

Figure 5: Right-Existing informal roads around the project area.

The envisaged project site for the lattice tower is already affected by human encroachment and activities such as solid waste disposal, rampant debushing as well as general development around, such that the area is not classified pristine, nor will its development result in undesirable effects on local fauna and flora, or water bodies.

4. CHAPER FOUR: PUBLIC CONSULTATION

4.1. OVERVIEW

The public consultation process forms an important component of the Environmental Assessment process. It is defined in the EIA Regulations (2012), as a “*process in which potential interested and affected parties are given an opportunity to comment on, or raise issues relevant to, specific matters*” (S1). Section 21 of the Regulations details steps to be taken during a given public consultation process and these have been used in guiding our process.

Formal public involvement has taken place via public consultations and focal meetings, newspaper announcements to inform the public that the development is under consideration. The public consultation process has been guided by the requirements of Environmental Management Act (EMA) No. 7 of 2007 and the process has been conducted in terms of regulation 7(1) as well as in terms of the EMA Regulations of GN 30 of 6 February 2012 and the World Bank EIA standards and project ToR.

Its overriding goals have been to ensure transparency in decision making and to.

- Ensure stakeholder concerns are incorporated in project design and planning;
- Increase public awareness and understanding of the project and
- Enhance positive development initiatives through the direct involvement of affected people.

The objectives of the public participation are to build credibility through instilling integrity and of conducting the EIA, Educate the stakeholders on the process to be undertaken and opportunities for their involvement and build stakeholders by establishing an agreed framework accordingly. This requires accessible, fair, transparent and constructive participation at every stage of process. Inform stakeholders on the proposed project and associate issues, impacts and mitigation and using the most effective manner to disseminate information.

In this section of the report, the results of consultations with various classes of stakeholders are summarized. The results of consultations with other stakeholders and community members who took part in this EIA are attached as Appendices.

The consultation was facilitated through the following means:

- A Background Information Document (BID) containing the project description, the EIA process and an invitation to participate was shared with stakeholders and community members.
- Invitation to participate notices were published in the local newspapers (New Era and Confidante) as shown in Table 7 below and Appendix A of this document.
- Announcement of EIA process verbally in the common public meeting points.
- Placement of a public notice at the project site and town centre.

Table 3: Details of public notification of the EIA study

Method	Area of Distribution	Language	Date Placed
The Confidante	Country Wide	English	15 April 2021
			22 April 2021
Windhoek Observer	Country Wide	English	16 April 2021
			23 April 2021
Site notices	Project site	English	3 May 2021
	Okahandja Town Council	English	3 May 2021
Public Meeting	KW Von Maree Primary School	English, Otjiherero	6 May 2021 @ 18h00



Figure 6: EIA Public meeting consultation.

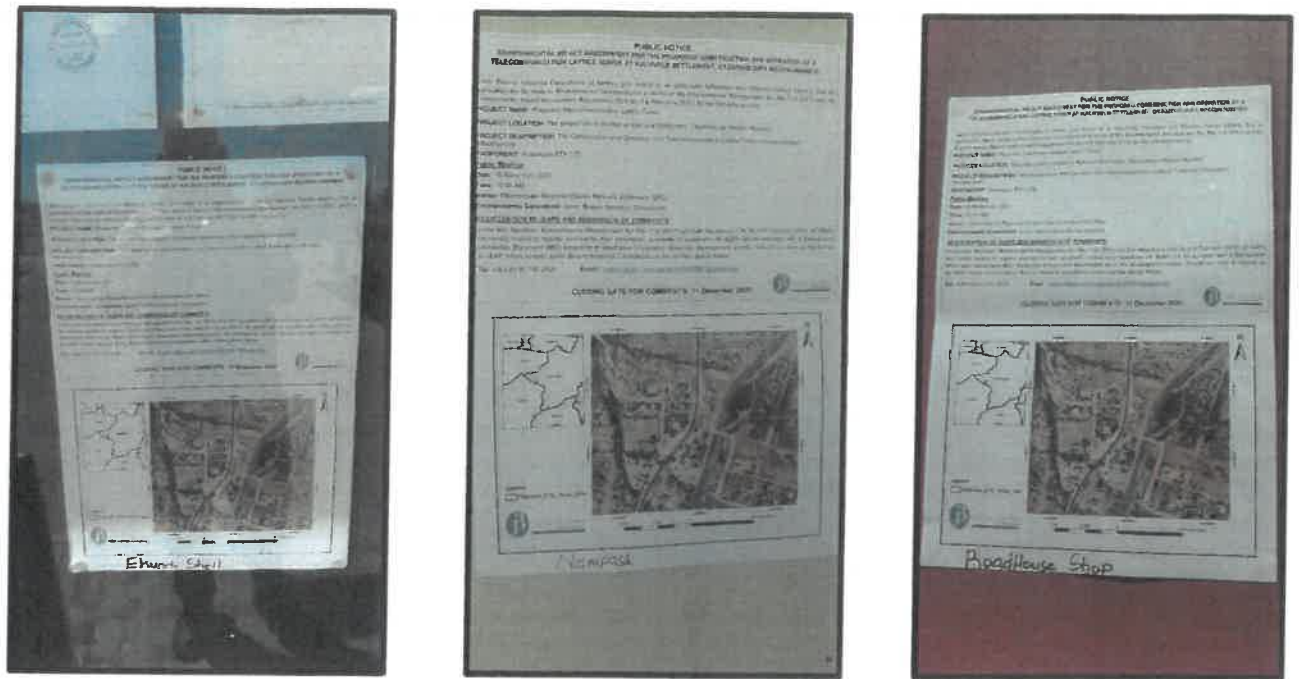


Figure 7: Public Notification Site Notices

✓ *Key Stakeholder Engagement Meeting*

A public meeting was organised on 08 May 2021 at Okahandja. Surrounding properties were consulted and informed of the development. Proof of public consultation is given in Appendix A of this document as well the attendance register explaining the project and the EIA study. Given below are the details of the meeting which was held:

✓ *Identification of Interested and Affected Parties (I&APs)*

The EIA team identified and consulted the following I&APs & key stakeholders for the proposed project:

- Okahandja Town Council,
- Community Members.

Other I&APs were allowed to register to the EIA team and compiled a database containing their names and correspondence details. The registration was accomplished over a period of 14 days.

✓ *Consultation with Stakeholders*

Experts in relevant fields, leaders of thought in environmental matters, Organs of the State, local communities have been consulted for their opinions on issues relating to the potential ecological and socio-economic impacts of the proposed project.

This provided an opportunity for stakeholders and the public at large to engage in the process and to make comments or express their concerns regarding the proposed development.

Table 4: Key findings of the public consultation process:

SUMMARY OF ISSUES	
THEME	ISSUE
Health and Safety	<ul style="list-style-type: none"> ▪ The safety of the towers in light of 5G networks causing corona virus was asked, however it was addressed that the technology proposed is not 5G
Infrastructure sharing	<ul style="list-style-type: none"> ▪ Security companies were inquiring if they would be allowed to install transmitters on the towers to cover surrounding properties in Okahandja.
Network Coverage	<ul style="list-style-type: none"> ▪ Some farm owners were worried that the network tower will not transmit to cover some farms far from Kalkveld Settlement due to obstructions, however it was addressed that the new technology is stronger and more powerful than previous technologies.

5. CHAPTER FIVE: ENVIRONMENTAL AND SOCIO-ECONOMIC IMPACTS

5.1. OVERVIEW

Powercom Pty Ltd has committed to sustainable and environmental compliance through coming up with a corrective action plan for all anticipated environmental impacts associated with the project. This is also in line with the Namibian Environmental Management legislation and International best practices on energy generation, transmission and linear infrastructure. The proponent will implement an Environmental Management Plan (EMP) in order to prevent, minimise and mitigate negative impacts. The Environmental Management Plan is being developed to address all the identified expected impacts, the plan will be monitored and updated on a continuous basis with aim for continuous improvement to addressing impacts.

5.2. ASSESSMENT OF IMPACTS

This section sets out the overall approach that was adopted to assess the potential environmental and social impacts associated with the project. To fully understand the significance of each of the potential impacts each impact must be evaluated and assessed. The definitions and explanations for each criterion are set out below in Table 5: Assessment Criteria.

Table 5: Assessment Criteria

Duration – What is the length of the negative impact?	
None	No Effect
Short	Less than one year
Moderate	One to ten years
Permanent	Irreversible
Magnitude – What is the effect on the resource within the study area?	
None	No Effect
Small	Affecting less than 1% of the resource
Moderate	Affecting 1-10% of the resource
Great	Affecting greater than 10% of the resource
Spatial Extent – what is the scale of the impact in terms of area, considering cumulative impacts and international importance?	
Local	In the immediate area of the impact
Regional / National	Having large scale impacts
International	Having international importance
Type – What is the impact	
Direct	Caused by the project and occur simultaneously with project activities

Indirect	Associated with the project and may occur at a later time or wider area
Cumulative	Combined effects of the project with other existing / planned activities
Probability	
Low	<25%
Medium	25-75%
High	>75%

(Adopted from ECC-Namiba, 2017)

Table 6: Impact Significance

Class	Significance	Descriptions
1	Major Impact	Impacts are expected to be permanent and non- reversible on a national scale and/or have international significance or result in a legislative non- compliance.
2	Moderate Impact	Impacts are long term, but reversible and/or have regional significance.
3	Minor	Impacts are considered short term, reversible and/or localized in extent.
4	Insignificant	No impact is expected.
5	Unknown	There are insufficient data on which to assess significance.
6	Positive	Impacts are beneficial

(Adopted from ECC-Namiba, 2017)

Table 7: Environmental Impacts and Aspects Assessment

Environmental Impact	Valued Ecosystem Component	Impact	Project Phase	Duration	Magnitude	Extent	Type	Probability	Significance	Infrastructure / Activity
TOPOGRAPHY	Landscape Scenery	Visual aesthetic impact	Construction and Operation	Moderate	Moderate	Local	Direct	Medium 25 - 75%	Minor	Tower and Access road
	Soil	Contamination to soil from paints and other potentially hazardous substances	Construction and Operations	Moderate	Small	Local	Direct	Low <25%	Minor	Tower
SOIL	Soil	Spillages of fuel, oil and lubricants.	Construction	Short	Small	Local	Direct	Low <25%	Minor	Tower and Access Road construction
	Soil	Erosion	Construction	Moderate	Small	Local	Direct	Low <25%	Minor	Tower and Access Road construction
LAND CAPABILITY	Terrestrial ecology	Change in land use	Construction and Operations	Permanent	Great	Local	Direct	Low <25%	Moderate	Tower
	Carrying capacity	Increase in human activities in the environment	Construction and Operations	Moderate	Moderate	Regional	Direct	Low <25%	Minor	Tower
WATER	Surface water quality	Water pollution from oils, lubricants and chemicals spillages.	Construction and Operations	Moderate	Small	Local	Direct	Medium 25 - 75%	Moderate	Construction hydrocarbons
	Surface water quality	Turbidity and high sediment load	Construction	Moderate	Small	Local	Direct	Low <25%	Moderate	Construction hydrocarbons

Environmental Impact	Valued Ecosystem Component	Impact	Project Phase	Duration	Magnitude	Extent	Type	Probability	Significance	Infrastructure / Activity
AIR QUALITY	Air Quality	Construction phase dust	Construction	Short	Small	Local	Direct	Low <25%	Minor	Tower Access Road construction
	Groundwater quality	Hazardous waste such as waste lubricants and stored chemicals may be released into the environment.	Construction and Operations	Short	Small	Local	Direct	Low <25%	Minor	Tower Access Road construction
	Surface water quality	Threatened chemicals washed into nearby rivers	Construction and operations	Moderate	Moderate	Regional	Direct	Medium 25 - 75%	Moderate	Tower Access Road construction
	Surface water quality	Construction and Operational solid waste	Construction and operations	Moderate	Moderate	Regional	Direct	Medium 25 - 75%	Moderate	Tower Access Road construction and maintenance
FAUNA	Terrestrial ecology and biodiversity	Loss of habitat and driving away of local animals	Construction and Operations	Short	Small	Local	Direct	Low <25%	Minor	Tower Access Road construction
	Terrestrial ecology and biodiversity	Destruction of vertebrate fauna (e.g. road kills; fence and powerline mortalities)	Construction and Operations	Short	Small	Local	Direct	Low <25%	Minor	Tower Access Road
SOCIAL	Noise Pollution	Increased noise levels	Construction	Moderate	Small	Local	Direct	Low <25%	Minor	Tower Access Road

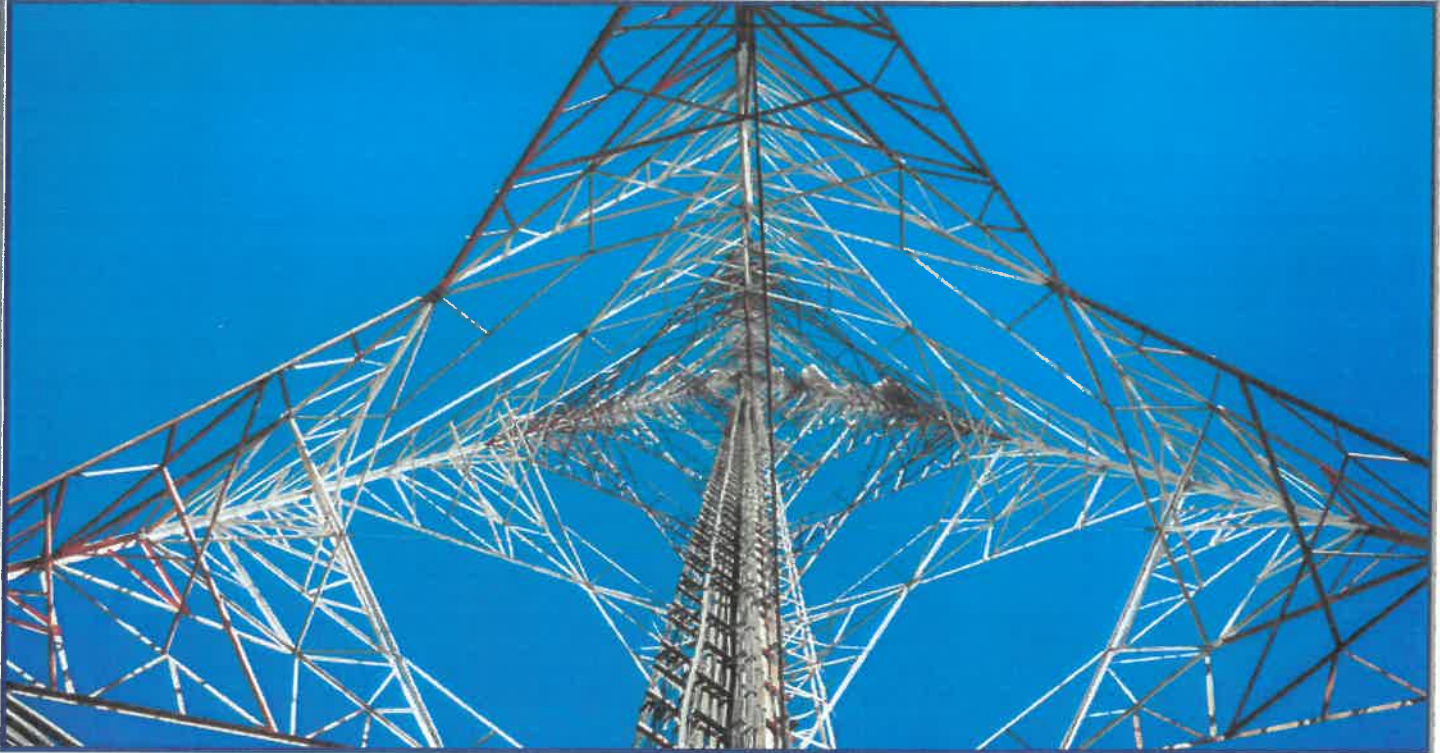
Environmental Impact	Valued Ecosystem Component	Impact	Project Phase	Duration	Magnitude	Extent	Type	Probability	Significance	Infrastructure / Activity
	Socio Economic Activities	Temporary and permanent employment prospects.	Construction and operations	Long	Moderate	Regional	Direct	Medium 25 – 75%	Positive	Tower and Access Road
	Socio Economic Activities	Climate change impacts	Operations	Long	Moderate	Regional / National	Direct	High >75%	Positive	Tower and Access Road
	Contribution to National Economy	Employment, procurement, and taxes. local duties and taxes.	Construction and Operations	Short	None	Regional / National	Direct	Low <25%	Positive	Tower and Access Road
HERITAGE	Artefacts, archaeological high value components	Destruction or affecting paleontological and archaeological artefacts	Construction and Operation	Moderate	Small	Local	Direct	Low <25%	Minor	Tower and Access Road
HEALTH AND SAFETY	Health Sanitation	Poor ablation and waste management facilities may be detrimental to human health.	Construction	Moderate	Moderate	Local	Direct	Medium 25 – 75%	Moderate	Tower and Access Road
	Property and human life	Electrocution, fires resulting in fatalities, damage to properties, veldt fires and power surges.	Construction and Operation	Moderate	Great	Local	Direct	Medium 25 – 75%	Major	Warehouse

Environmental Impact	Valued Ecosystem Component	Impact	Project Phase	Duration	Magnitude	Extent	Type	Probability	Significance	Infrastructure / Activity
	Natural Environment	Spillage/ release of chemicals into the environment	Operation	Moderate	Great	Local	Direct	Medium 25 – 75%	Major	Tower and Access Road
	Humans, Vegetation, Animals	Potential impacts from non-ionizing radiation propagated by masts.	Operation	Moderate	Small	Local	Direct	Low <25%	Minor	Tower
AVIAN IMPACTS	Air traffic	Air Traffic disturbances	Operation	Moderate	Great	Local	Direct	Medium 25 – 75%	Major	Tower
	Avifauna	Bird fatalities	Operation	Moderate	Moderate	Local	Direct	Medium 25 – 75%	Moderate	Tower
TRAFFIC	Access road	Vehicular accidents	Construction and Operation	Moderate	Great	Local	Direct	Medium 25 – 75%	Major	Tower

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**ENVIRONMENTAL IMPACT ASSESSMENT
FOR THE PROPOSED CONSTRUCTION AND
OPERATION OF A TELECOMMUNICATION LATTICE
TOWER AT VEDDERSDAL IN OKAHANDJA,
OTJOZONDJUPA REGION-NAMIBIA.**



**ENVIRONMENTAL MANAGEMENT PLAN
FINAL**

JUNE 2021



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Acronyms

TERMS	DEFINITION
BID	Background Information Document
EAP	Environmental Assessment Practitioners
ECC	Environmental Clearance Certificate
ECO	Environmental Control Officer
EIA	Environmental Impact Assessment
ESIA	Environmental and Social Impact Assessment
EMP	Environmental Management Plan
GHG	Greenhouse Gasses
ISO	International Organization for Standardization
I&Aps	Interested and Affected Parties
JBIC	Junior Baiano Industrial Consultants
MET: DEA	Ministry of Environment and Tourism's Directorate of Environmental Affairs

1. CHAPTER ONE: BACKGROUND

1.1. INTRODUCTION

Powercom (PTY) LTD herein referred to as the proponent has identified different areas in Namibia that needs improved communication alternatives due to growth in population and economic activities. To achieve the objective of improved telecommunication connectivity, Powercom intends to establish telecommunication towers across the identified different locations. One of the identified areas that needs a telecommunication mast is Veddertsdal in Okahandja.

In terms of the Namibian environmental legislation (Environmental Management Act (No. 7 of 2007)) and the Environmental Assessment Regulations of 2012; an EIA is required to obtain an Environmental Clearance Certificate from the Ministry of Environment and Tourism (MET) before the project can proceed.

Furthermore, as per the requirements of the Environmental Management Act No. 7 of 2007, Powercom has appointed JBIC to conduct an Environmental Assessment (EA) and develop an Environmental Management Plan (EMP) for the proposed tower establishment. This has been followed by an application for Environmental Clearance Certificate (ECC) to the Ministry of Environment and Tourism (MET): Directorate of Environmental Affairs (DEA).

In this respect, this document forms part of the application to be made to the DEA's office for an Environmental Clearance certificate for the proposed Veddertsdal Telecommunication Lattice Tower, in accordance with the guidelines and statutes of the Environmental Management Act No.7 of 2007 and the environmental impacts regulations (GN 30 in GG 4878 of 6 February 2012)

1.2. PROJECT LOCATION

The project site is located in Veddertsdal Suburb in Okahandja, Otjozondjupa Region-Namibia. The Locality Map Fig 1) gives a local layout view of the project site:

ENVIRONMENTAL MANAGEMENT PLAN: THE PROPOSED CONSTRUCTION AND OPERATION OF A TELECOMMUNICATION LATTICE TOWER AT VEDDERSDAL IN OKAHANDJA, OTJOZONDJUPA REGION-NAMIBIA.

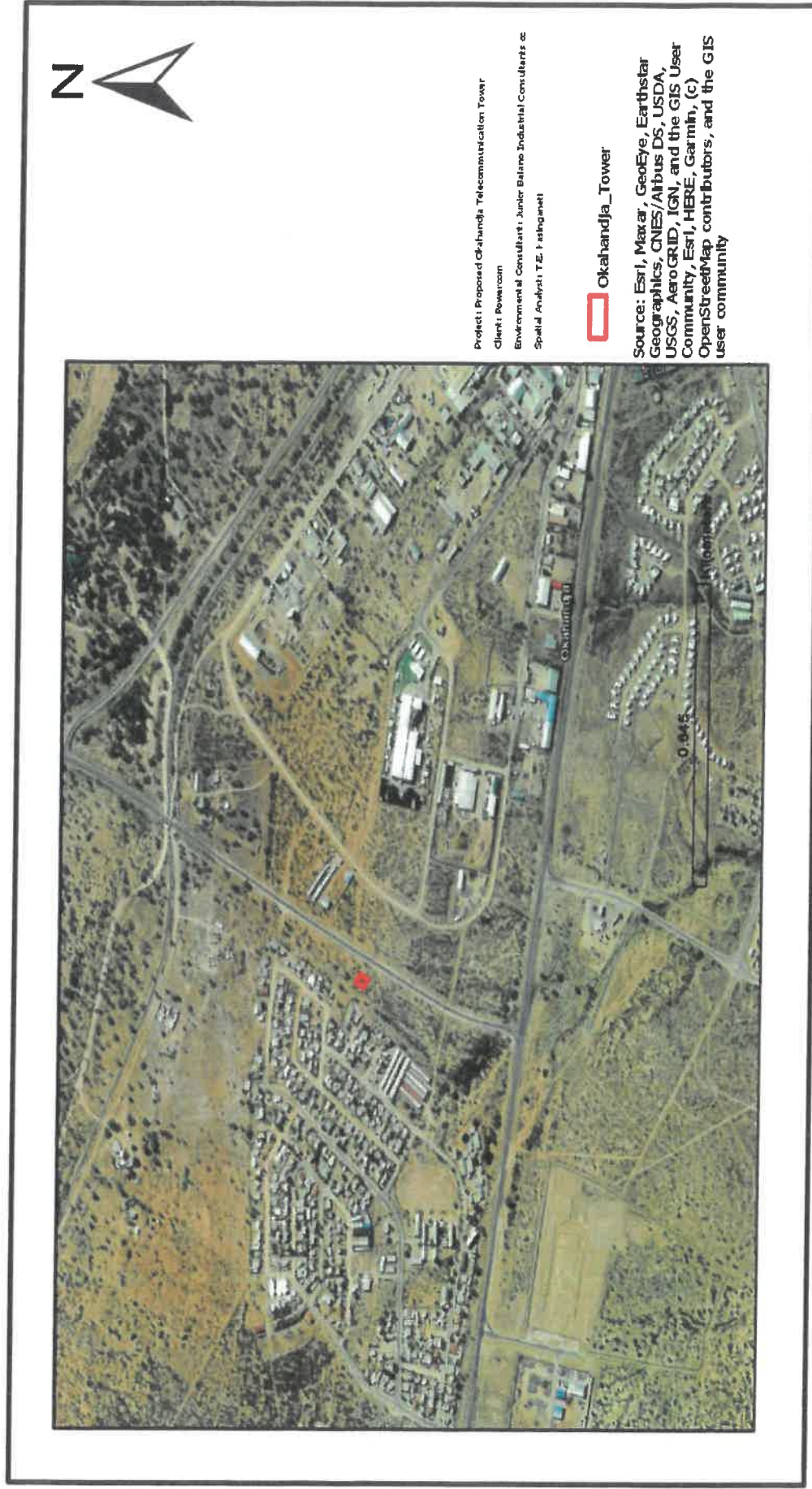


Figure 1: Proposed Project Site

1.3. PURPOSE OF THE ENVIRONMENTAL MANAGEMENT PLAN (EMP)

This EMP has been developed for the construction and operation of Veddersdal tower in Okahandja. It forms the operational framework within which the proposed project is to operate within. All anticipated environmental and social impacts identified in the environmental scoping report are addressed, with a mitigation action, monitoring requirements, key indicator and responsibilities.

This EMP is incessant, and it requires compliance monitoring, updating and or amendment if the scope of operations change. All personnel working on the project will be legally required to comply with the standards set out in this EMP.

This section describes the Environmental Management Plan (EMP) for impacts associated with the proposed development. The EMP stipulates the management of environmental programs in a systematic, planned and documented manner. The EMP below includes the organizational structure, planning and monitoring for environmental protection at the proposed farm area development and other areas of its influence. The aim is to ensure that the proponent maintains adequate control over the project operations to:

- To prevent negative impacts where possible;
- Reduce or minimise the extent of impact during project life cycle;
- Prevent long-term environmental degradation.
- Ensure public safety and health is protected.

1.4. LEGAL AND OTHER REQUIREMENTS COMPLIANCE

This report presents the EMP and has been undertaken in accordance with the requirements of the Environmental Management Act, No. 7 of 2007 and the Environmental Assessment regulations of 2012.

As such, key requirements in accordance to this Act, classifies the proposed project as listed and invokes the need for an environmental management plan to sustainably implement this project. However, legal compliance is not only limited to the EMA, but also applies to all applying legal requirements identified in the ESR. When licenses are required such as wastewater discharge, the proponent should ensure that all licenses and permits are obtained and fulfilled as per conditions.

1.5. EMP ADMINISTRATION

There is a strong need to clearly outline the roles and responsibilities of all stakeholders to ensure that the EMP is fully implemented. There is also a need for the proponent to appoint an overall responsible person (Site Manager) to ensure the successful implementation of the EMP.

It solely remains the responsibility of Powercom to ensure;

- That all members of the project team, including contractors, comply with the procedures set out in this EMP;
- That all personnel are provided with sufficient training, supervision, and instruction to fulfil this requirement; and
- Ensuring that any persons allocated specific environmental responsibilities are notified of their appointment and confirm that their responsibilities are clearly understood.

2. CHAPTER THREE: ENVIRONMENTAL MANAGEMENT PLAN (EMP)

2.1. INTRODUCTION

The proposed project will have environmental impacts as indicated in the Environmental Scoping Report. This section is aimed at describing The Environmental Management Plan (EMP) for impacts associated with the proposed tower. The EMP stipulates the management of environmental programs in a systematic, planned and documented manner. The EMP below includes the organizational structure, planning and monitoring for environmental protection at the proposed farm area development and other areas of its influence. The aim is to ensure that the proponent maintains adequate control over the project operations to:

- To prevent negative impacts where possible;
- Reduce or minimise the extent of impact during project life cycle;
- Prevent long term environmental degradation.

2.2. EMP ADMINISTRATION

There is a strong need to clearly outline the roles and responsibilities of all stakeholders to ensure that the EMP is fully implemented. There is also a need for the proponent to appoint an overall responsible person (project manager) to ensure the successful implementation of the EMP as highlighted below:

Table 1: Roles and Responsibilities in EMP Implementation

ROLE	ENVIRONMENTAL RESPONSIBILITIES
Site Manager	Responsible to enforce EMP implementation to contractors
Environmental Control Officer (ECO)	<p>Implement, review and update the EMP.</p> <ul style="list-style-type: none"> • Ensure all reporting and monitoring required under EMP is undertaken, documented and distributed as needed • Conduct environmental site training (tool box talks) and inductions • Conducts environmental audit at work site with the support of environmental consultant. • Close out all non-conformances. • Ensure materials being used on site are environmentally friendly and safe.
The Department of Environmental Affairs	<p>Approve the EMP and any amendments to the EMP.</p> <ul style="list-style-type: none"> • Approve reports of environmental issues and non-conformances as issued. • Review and approve environmental reports submitted as part of EMP implementation
Contractor	<p>Control and monitor actions required by the EMP.</p> <ul style="list-style-type: none"> • Report all environmental issues to Environmental Control Officer • Ensure documented procedures are followed and records kept on site. • Ensure any complaints are passed onto the management within 24 hours of receiving the complaint.
Workers	<p>Follow requirements as directed by site engineers.</p> <ul style="list-style-type: none"> • Report any potential environmental issues to contractor manager/Site Manager, indicating spill oil, excess waste, excessive dust generation, dirty water running off the site and other possible non-conformances

Table 2 : Construction and Operation EMP (C&O EMP)

Impact	Description	Effects	Class	Time frame	Responsibility	Action	Phase
Noise pollution	Noise will be generated through: -Construction activities -Moving vehicles.	<ul style="list-style-type: none"> - The health of working personnel could be disturbed. - Community residents could be disturbed by the noise. - General annoyance -Driving away of local animals' species near the project site 	Environmental	4-6 months	-Environmental Control Officer -Site Manger	<ul style="list-style-type: none"> - A construction interval will be established, used and adhered to. - Workers will be issued earplugs to protect them from excessive noise. - Public will be notified through printed timetable stating planned operational activities. - Construction activities will be conducted during daytime. -Site notices will be erected on, around the site-notifying visitors, and nearby residents of different hazards on site. -No go areas marked as sensitive environments, especially for birds needs to be avoided during construction and operation. 	Construction & Operation
Dust Generation	Dust will accumulate because of the land preparation, onsite movements of vehicles and machines, wind blowing on loose material during construction and tipping.	<ul style="list-style-type: none"> - Can lead to respiratory illnesses especially to those working in the area. - General air pollution. -Nuisance to nearby residents -The process can also drive away wild animals 	Environmental	6-8 months	-Environmental Control Officer -Site Manager	<ul style="list-style-type: none"> - Dust suppression will be done through watering dust sources surfaces. -Watering down dusty surfaces, -Ensure that protective equipment such as respirators are distributed to employees, and ensure their use. -Site notices to be erected on and around the site to inform visitors and surrounding residents. 	Construction & Operation

Impact	Description	Effects	Class	Time frame	Responsibility	Action	Phase
Loss of Biodiversity	<ul style="list-style-type: none"> -Vegetative plants on site will be removed -Habitat destruction for both ground dwelling species and tree dwelling species. -Soil disturbance on and around the site. 	<p>within the project area surroundings</p> <ul style="list-style-type: none"> -The clearing of vegetation will result in the breaking of the ecosystem processes in the area. -Loss of aesthetic value of the proposed project area. -The few small animals still inhabiting the place such as small rodents and birds will be forced away. 	Environmental	Construction phase	<ul style="list-style-type: none"> -Environmental Control Officer -Site Manager 	<ul style="list-style-type: none"> - The proposed project area is already disturbed, hence there is little vegetation to be affected by the development. - Ground disturbance will only be limited to the boundary area to avoid affecting a large area. -Upon completion of construction activities more greening of the construction footprint affected area is recommended. A local landscaper can be engaged. 	Construction
Greenhouse gas emissions	<p>Green House Gasses (GHGs) emissions will be produced from the following activities:</p> <ul style="list-style-type: none"> • Fuels combustion for (construction vehicles and equipment) • Ground excavation releases phosphorus found underground and releases particulate matter into the atmosphere. 	<ul style="list-style-type: none"> -Global climate change - Air pollution 	Environmental	Construction phase	<ul style="list-style-type: none"> -Environmental Control Officer -Site Manager -Department of Environmental Affairs. 	<ul style="list-style-type: none"> -Adopt the use of ethanol blended fuels wherever necessary. -Design an operation system that cuts on fuel consumption. - Use of solar energy system during construction for lighting and other minor energy needs. 	Construction & Operation

Impact	Description	Effects	Class	Time frame	Responsibility	Action	Phase
Waste Generation	<p>-Construction and operation are associated with a lot of raw material and activities that results in pollution</p> <p>-The construction and maintenance activities may generate e-waste and this needs to be disposed of in a sustainable manner.</p>	<p>-Pollution from oil spills resulting from the handling of various machineries used during the construction phase</p> <p>-Construction rubble, empty r packaging containers/bags and materials remnants.</p>	Environmental	Construction phase	<p>-Environmental Control Officer</p> <p>-Site Manager</p>	<p>- Ensure that all waste from construction activities is stored and contained in designated containers and transported to an approved waste disposal site.</p> <p>-Bulky waste such as building rubbles must be collected and disposed of for landfilling.</p> <p>-Visual inspections monitoring</p>	
Safety and Health risks	<p>Construction related Safety and Health hazards</p>	<p>-Injuries to workers such as Occupational dermatitis, slips and fall of humans and objects, musculoskeletal disorders, etc.</p>	Health and safety	Construction phase	ECO	<p>- Equip workers with Personal Protective Equipment (PPE), provide trainings on how to effectively use the PPE.</p> <p>-Provide platforms for briefings and meetings about possible safety and health hazards in the work place</p> <p>-Provide site signs warning and informing about different hazards on site.</p>	Construction and operation
	Electrical hazards	-Fatalities and fires	Health and safety	Construction and operation	ECO	<p>-Employees should be trained on electrical safety before working on site.</p> <p>-Safety representative with training on electrical hazards emergency management should be station on site always during construction</p> <p>-Safety signs during construction and operation should be put on site, no go</p>	Construction and Operation

ENVIRONMENTAL MANAGEMENT PLAN: THE PROPOSED CONSTRUCTION AND OPERATION OF A TELECOMMUNICATION LATTICE TOWER AT VEDDERSDAL IN OKAHANDJIA, OTJOZONDJUPA REGION-NAMIBIA.

Impact	Description	Effects	Class	Time frame	Responsibility	Action	Phase
						<p>areas should be labelled, PPE specifications should be clear to maintenance personnel.</p> <p>-There are studies that indicate potential of radiation from cell phone towers to have carcinogenic impacts after prolonged exposure.</p> <p>-However, the tower is sited at most 5m away from residential households and there is no prolonged exposure to anyone.</p> <p>-PowerCom will secure the BTS perimeter to ensure that no one is always in proximity to the tower without pre-approval.</p>	Operation
	Radiation (Non Ionizing)	Carcinogenic consequences	-Health -Social	Permanent	-Environmental Control Officer -Site Manager		
	Avifauna	-Bird fatalities	-Environmental	Permanent	-Environmental Control Officer -Site Manager	<p>-New towers must be built below 60m height to avoid bird fatalities.</p> <p>-Construct ungued towers with platforms that will accommodate possible future co-locations and build them at existing 'antenna farms', away from areas of high migratory bird traffic, wetlands and other known bird areas.</p> <p>-Where towers over 60m are absolutely necessary, use the minimum amount and intensity of lighting allowed under FCC regulations.</p>	Operation

ENVIRONMENTAL MANAGEMENT PLAN: THE PROPOSED CONSTRUCTION AND OPERATION OF A TELECOMMUNICATION LATTICE TOWER AT VEDDERSDAL IN OKAHANDJIA, OTJOZONDJUPA REGION-NAMIBIA.

Impact	Description	Effects	Class	Time frame	Responsibility	Action	Phase
						<ul style="list-style-type: none"> -Minimize the tower 'footprint' on newly constructed towers. -If the tower is decommissioned, it should be removed as soon as possible. -Use visual daytime markers in areas of high diurnal birds. -Security lighting for on-ground facilities should be minimized, point downwards or be down-shielded. -Conduct on-site bird fatalities monitoring on the tower at least every month. -The use of white strobes results in less circling behavior by nocturnal migrants and thus fewer mortalities than red pulsating lights. 	
	Air Transport	-Air transports impacts	-Socio-economic	Permanent		<ul style="list-style-type: none"> -The towers should comply with aviation guidelines so that they do not impact air transport systems. -Air traffic visibility systems such as lighting at the tip of the tower. -The towers should be designed so that they are visible to birds. 	Construction and operation
Land use change	-There will be change in land use and visual aesthetics	-The area will no longer be suitable for agriculture.	-Social -Terrestrial environment	Permanent	-Environmental Control Officer -Site Manager	-The development should blend into the existing area through designing and colour coding.	Construction and operation

ENVIRONMENTAL MANAGEMENT PLAN: THE PROPOSED CONSTRUCTION AND OPERATION OF A TELECOMMUNICATION LATTICE TOWER AT VEDDERSDAL IN OKAHANDJIA, OTJOZONDJUPA REGION-NAMIBIA.

Impact	Description	Effects	Class	Time frame	Responsibility	Action	Phase
		-Sudden change in landscape appearances may be unfavourable to the conservatives.				-Green designing will bring life to the site and blend with surrounding areas.	
Positive Impacts							
Employment creation	The development provides an opportunity of outsourcing work	- Improves disposable income to those employed and their immediate families.	Socio-economic	Project time	-Site Manager	- Work with local leadership (councillor) on acquiring non-skilled labour from the residents.	Construction and operation
Business linkages	-Raw materials acquiring and contracting companies provide an opportunity for businesses.	-Local suppliers will be presented with an opportunity to empower their businesses. -Construction workers can be provided with accommodation, food and services from the local community increasing business activities.	-Socio-economic	Construction phase	-Site Manager	-The proponent will outsource most of its materials and services from Okahandja	Construction and operation
Infrastructure development	The development presents a unique opportunity for infrastructure development in Namibia.	-Improvement in connectivity. -Development of the facilities will also pave way for future developers to grow interests in the area and result in ripple effects	-Socio-economic	Construction phase	-Site Manager	-The new tower should cover a larger area, and they should also consider provision of infrastructure platform to other smaller companies such as security companies.	Construction and operation

ENVIRONMENTAL MANAGEMENT PLAN: THE PROPOSED CONSTRUCTION AND OPERATION OF A TELECOMMUNICATION LATTICE TOWER AT VEDDERSDAL IN OKAHANDJA,
OTJOZONDJUPA REGION-NAMIBIA.

Impact	Description	Effects	Class	Time frame	Responsibil ity	Action	Phase
		and quick growing of the area.					

3. CHAPTER FOUR: CONCLUSION AND RECOMMENDATIONS

3.1. RECOMMENDATION FROM ENVIRONMENTAL ASSESSMENT PRACTITIONER

Based on the information provided it is the opinion of JBIC CC that no fatal flaws have been identified for the proposed development and that the information contained in this report is sufficient enough to allow DEA to make an informed decision.

Junior Baiano Industrial Consultants cc therefore recommends that Environmental Clearance be granted for the proposed development based on the following recommendations:

- The proposed activity is not anticipated to have significant environmental impacts.
- There is however a visual impact.
- The following recommendations should be implemented in order to ensure that potential impacts associated with the establishment and operation of the site are minimised:
 - i. Any areas disturbed during construction and operation must be rehabilitated.
 - ii. The structure is to be removed when the structure ceased to be used for telecommunications purposes and the site rehabilitated.
 - iii. Construction to take place during working hours.
 - iv. Trampling and disturbance associated with construction should be limited to within 5m (five metres) of the footprint of the site.
 - v. On completion of the project all litter and construction debris shall be immediately removed from the site.
 - vi. Mitigation measures to reduce the potential visual impact should be implemented as far as possible.

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- MET (Ministry of Environment and Tourism). 2012. *Environmental Management Act no. 7 of 2007*. Windhoek: Directorate of Environmental Affairs, Ministry of Environment and Tourism



junior baiano

Industrial consultants cc

PO BOX 23537

WINDHOEK

Po box 23537
Windhoek

Tel: 061-219773

Cell: 0811472029

fredrich@jbic.com.na/JuniorB200581@gmail.com

NAME	Organisation/ Location	PHONE NUMBER	SIGNATURE
NATASHA BRINKMAN	MAYOR OKH	081273712	
AKSER AUPINDI	CIIR OICAHANGA	08160099560	
Frederic SWARTZ	Ken. V. MAREE	0818012727	

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081 683 6152

NOTICE OF ENVIRONMENTAL ASSESSMENT AND PUBLIC PARTICIPATION PROCESS

Junior Balano Industrial Consultants cc hereby gives notice to all potentially interested and Affected Parties (I&APs) that an application will be made to Environmental Commissioner in terms of the Environmental Management Act (No 7 of 2007) and the Environmental Impact Assessment Regulations (GN 30 of 6 February 2012) for the following activity:

PROJECT DESCRIPTION: PROPOSED CONSTRUCTION AND OPERATION OF A 10 MW MERCHANT SOLAR PHOTOVOLTAIC PLANT.

PROJECT LOCATION: GERUS FARM IN OUTJO, KUNENE REGION: NAMIBIA

PROPOSITOR: SINO ENERGY (PTY) LTD

I&APs are invited to register with the consultant and give their comments and concerns in writing. Please take note of the following:

PUBLIC MEETING
Date: Friday 29 April 2021
Venue: Nexus Head Office, Corner of Krenz Avenue and President Street, Otavi Road, Outjo.
Time: 11:30 AM

To register or request for documents please submit your name, contact information and interest in the project, in writing to:

Mr Nghiyelwa, Fredrich
Tel: +264 (0) 81 147 2029
Email: fredrich@jbalano.com.na / JuniorA200581@gmail.com

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Mr. Laycon
081 254 9876

NOTICE OF ENVIRONMENTAL ASSESSMENT AND PUBLIC PARTICIPATION PROCESS

Junior Balano Industrial Consultants cc hereby gives notice to all potentially interested and Affected Parties (I&APs) that an application will be made to Environmental Commissioner in terms of the Environmental Management Act (No 7 of 2007) and the Environmental Impact Assessment Regulations (GN 30 of 6 February 2012) for the following activity:

Project Title: Proposed Telecommunication Lattice Tower.

Project Description: The Construction and Operation of a Telecommunication Lattice Tower and Associated Infrastructure.

Project Location: The project site is located in Vecdenstal, Okahonamba, alongside the B1 road Okahonamba Region -Namibia.

Proponent: Powercom PTY LTD.

I&APs are invited to register with the consultant and give their comments and concerns in writing. Please take note of the following:

PUBLIC MEETING
Date: 6 May 2021
Venue: KW Von Marree Primary School
Time: 16H00

To register or request for documents please submit your name, contact information and interest in the project, in writing to:

Mr Nghiyelwa, Fredrich
Tel: +264 (0) 81 147 2029
Email: JuniorA200581@gmail.com

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Mr. Amidu
0812049299

REZONING NOTICE

Notice is hereby given that Nghiyelwa Planning Consultants (Town and Regional Planners) has been appointed by the owners of Erf 587, Ondangwa Extension 1, to apply to the Ondangwa Town Council and the Urban and Regional Planning Board in terms of Section 105(1)(a) of the Urban and Regional Planning Act, 2018 (Act 5 of 2018) and its regulations for the:

- Rezoning of Erf 587, Ondangwa Extension 1 from "Civic" to "Business";
- Consent to commence construction of business buildings (Restaurant/Coffee Shop) while the rezoning is being formally processed.

Erf 587 is located in Ondangwa Extension 1 and measures 577m² in extent. The erf is currently zoned for "Civic" purposes.

It is the intention of the owners to rezone Erf 587, Ondangwa Extension 1 from "Civic" to "Business". The proposed rezoning will enable the owner to construct business buildings (Restaurant/Coffee Shop) on the property; therefore, they are not expected to have any negative impacts to the surrounding area nor the urban character.

Should this application be successful, the number of vehicles for which parking must be provided on-site will be in accordance with the Ondangwa Town Planning Scheme.

Further take notice that the plan of the erf lies for inspection on the town planning notice board of the Ondangwa Town Council: Ground floor, Civic Center, Main Road, Ondangwa and the Applicant: Suite 4, Paragon Office Suites, Garten Street, Windhoek.

Further take notice that any person objecting to the proposed use of the land as set out above may lodge such objection together with the grounds thereof, with the Ondangwa Town Council and with the applicant (Nghiyelwa Planning Consultants) in writing within 14 days of the last publication of this notice.

The last date for any objection is: 30 April 2021

Dated at Windhoek this 8th day of April 2021.

Applicant: Nghiyelwa Planning Consultants
P O Box 40900, Ausspannplatz
Web: www.nghiyelwa.com.na
Email: planning@nghiyelwa.com.na
Tel: 061 269 697 Cell: 065 3232 230

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MR KOI KOI
0813013297

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Contact: Mandy

• T: 061 24 6136 • C: 081 895 8296 • E: mandy@confidentenamibia.com

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OTJOMUISE	KLEIN WHK	KATURURA	OTJOMUISE	KHOMASDAL
2 bedrooms flat with big courtyard beautiful complex N\$790 000	- Modern Bachelor flat N\$ 900 000	2 bedrooms flat with a balcony all cost included N\$ 875 000	2 bedroom, neat, modern flat all cost included N\$ 699 000	3 bedrooms, 3 bathrooms, garage townhouse N\$ 1250 000

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NOTICE OF ENVIRONMENTAL ASSESSMENT AND PUBLIC PARTICIPATION PROCESS

Junior Baiano Industrial Consultants cc hereby gives notice to all potentially interested and Affected Parties (I&APs) that an application will be made to Environmental Commissioner in terms of the Environmental Management Act (No 7 of 2007) and the Environmental Impact Assessment Regulations (GN 30 of 6 February 2012) for the following activity:

PROJECT DESCRIPTION: PROPOSED CONSTRUCTION AND OPERATION OF A 10 MW MERCHANT SOLAR PHOTOVOLTAIC PLANT.

PROJECT LOCATION: GERUS FARM IN OUTJO, KUNENE REGION: NAMIBIA


PROponent: SINO ENERGY (PTY) LTD

I&APs are invited to register with the consultant and give their comments and concerns in writing. Please take note of the following:

PUBLIC MEETING
Date: Friday 29 April 2021
Venue: Nexus Head Office, Corner of Krenz Avenue and President Street, Otavi Road, Outjo.
Time: 11:00 AM

To register or request for documents please submit your name, contact information and interest in the project in writing to:

Mr Nghiyohwa, Fredrich
Tel: +264 (0) 81 147 2029
Email: fnghiyohwa@nexus.com.na / jbaiano@nexus.com.na



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Project Title: Proposed Telecommunication Lattice Tower.

Project Description: The Construction and Operation of a telecommunication Lattice Tower and Associated Infrastructure.

Project Location: The project site is located in Veddersdal, Okavangoja, alongside the B1 road Otjozondjupa Region -Namibia.


Proponent: Powercom PTY LTD.

I&APs are invited to register with the consultant and give their comments and concerns in writing. Please take note of the following:

PUBLIC MEETING
Date: 4 May 2021
Venue: KW Von Maree Primary School
Time: 18h00

To register or request for documents please submit your name, contact information and interest in the project, in writing to:

Mr Nghiyohwa, Fredrich
Tel: +264 (0) 81 147 2029
Email: fnghiyohwa@nexus.com.na / jbaiano@nexus.com.na



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3 bedroom, 2 Bathrooms, Swimming pool, outside 2bedrooms full flat, another 2 bedrooms and 1 shared toilet flat house, Erf 1243 sqm N\$3150 000	3 Bedroom House with 3 freestanding half built flats, erf 655sqm N\$2100 000	3 Bg Bedrooms, Swimming pool, garage, garden Erf 1166sqm - behind Noyal Ford N\$4900 000	Freestanding Townhouse, 3 bedrooms, 2 Bathrooms, built in braai area, an outside room with Toilet, 300sqm N\$1280 000	
OTJOMUISE	KLEIN WIK	KATUTURA	OTJOMUISE	KHOMASDAL
2 bedrooms flat with big courtyard beautiful complex N\$790 000	- Modern Bachelor flat N\$ 900 000	2 bedrooms flat with a balcony all cost included N\$ 675 000	2 bedroom, neat, modern flat all cost included N\$ 699 000	3 bedrooms, 3 bathrooms, garage townhouse N\$ 1250 000

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• T: 061 24 6136 • C: 081 895 8296 • E: mandy@confidentenamibia.com

NOTICE OF ENVIRONMENTAL ASSESSMENT AND PUBLIC PARTICIPATION PROCESS

Junior Batano Industrial Consultants cc hereby gives notice to all potentially interested and Affected Parties (I&APs) that an application will be made to Environmental Commissioner in terms of the Environmental Management Act (No 7 of 2007) and the Environmental Impact Assessment Regulations (GN 30 of 6 February 2012) for the following activity:


PROJECT DESCRIPTION: PROPOSED CONSTRUCTION AND OPERATION OF A 10 MW MERCHANT SOLAR PHOTOVOLTAIC PLANT

PROJECT LOCATION: GERUS FARM IN OUIJO, KUNENE REGION: NAMIBIA

PROPOSER: SINO ENERGY (PTY) LTD


I&APs are invited to register with the consultant and give their comments and concerns in writing. Please take note of the following:

PUBLIC MEETING
Date: Friday 23 April 2021
Venue: Nexus Head Office, Corner of Krenz Avenue and President Street, Olavif Road, Oujjo.
Time: 11:00 AM



To register or request for documents please submit your name, contact information and interest in the project, in writing to:

Mr Nghyohwa, Fredrich
Tel: +264 (0) 81 147 2027
Email: fredrich.nghyohwa@juniorbatano.com



NOTICE OF ENVIRONMENTAL ASSESSMENT AND PUBLIC PARTICIPATION PROCESS

Junior Batano Industrial Consultants cc hereby gives notice to all potentially interested and Affected Parties (I&APs) that an application will be made to Environmental Commissioner in terms of the Environmental Management Act (No 7 of 2007) and the Environmental Impact Assessment Regulations (GN 30 of 6 February 2012) for the following activity:

Project Title: Proposed Telecommunication Lattice Tower.

Project Description: The Construction and Operation of a Telecommunication Lattice Tower and Associated Infrastructure.

Project Location: The project site is located in Vedderdal, Okavango, alongside the B1 road Ojjozondjupa Region - Namibia.


Proposed: Powercom PTY LTD.


I&APs are invited to register with the consultant and give their comments and concerns in writing. Please take note of the following:

PUBLIC MEETING
Date: 6 May 2021
Venue: KW Von Maree Primary School
Time: 18:00

To register or request for documents please submit your name, contact information and interest in the project, in writing to:

Mr Nghyohwa, Fredrich
Tel: +264 (0) 81 147 2027
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Wayde van Niekerk excited to face 'uncomfortable situations' in US after easy 200m semi-final

CAPE TOWN – Wayde van Niekerk says his imminent move to the United States is about being "associated with champions" as he chases a new 400m world record in defence of his Olympic title.

The 28-year-old had an easy time of it on the second day of the South African athletics championships at the Tuks Stadium in Pretoria on Friday, where he was able to cruise from his heat into the semi-final, where it was another relaxed run to reach Saturday's final.

Van Niekerk opened up with a time of 20.60 seconds in the morning, and upped the ante slightly on a warm afternoon to win his semi-final in 20.38 – the quickest of all the final qualifiers – as he ran a strong bend and maintained his pace in the home straight to beat former world championship bronze medalist Anaso Jobodwana into second place (20.89).

Talking about qualifying, SA 200m record-holder Clarence Munyai almost didn't make it to the Saturday evening decider (6.35pm) after slowing down considerably close to the finish line in his semi-final.

The 23-year-old Gauteng North athlete, whose national mark stands at an incredible 19.69, ended in third with 21.03, with only the top two finishers gaining automatic qualification.

He would've had an anxious few minutes as he waited for the third semi-final to be run, and after officials checked all three races, Munyai scraped through to the final as one of the 'fastest losers' by just 0.01 seconds, with the next best being Vuyo Moss in 21.04.

For Van Niekerk, though, it was another important outing as he plots the path to breaking his 400m world record of 43.03 seconds and gold at the Tokyo Olympics.

"I am happy with how the year has been thus far. It has definitely been a positive direction, and I can just use this as a confidence boost to take with me for this season. My goal is towards the European season, and making sure I do well at the Olympic Games. This is an amazing opportunity as a stepping stone to get myself back on to the track, to get to where I should be," the Free State athlete told BackTrack Sports after the race.

"(Handling pressure) It is definitely a reality in my life right now – I can't try and avoid it. But if you look at my performances right now... that is why I am exposing myself right now to such quality fields.

"Just using that to improve myself and by the time I get to the European stages, I will start challenging myself against those guys."

Paul Pogba: Man Utd midfielder critical of Jose Mourinho management style

Manchester United midfielder Paul Pogba says current boss Ole Gunnar Solskjaer "wouldn't go against the players" like former manager Jose Mourinho.

Pogba re-joined United in 2016 for a then-world record £89m when Mourinho was manager at the Old Trafford club.

But the pair fell out by the time Mourinho was sacked in December 2018.

"Once I had a great relationship with Mourinho," Pogba told Sky Sports. "Everybody saw that and the next day you don't know what happened."

The 28-year-old France international added: "That's the strange thing I had with Mourinho and I cannot explain to you because even I don't know."

Pogba helped United win the League Cup and Europa League in 2017 under Mourinho but he was stripped of the vice-captaincy by the Portuguese in September 2018.

He was also an unused substitute in a



Pogba re-joined United in 2016 for a then-world record £89m when Mourinho was manager at the Old Trafford club.

3-1 defeat by Liverpool in what turned out to be Mourinho's final game in charge of Manchester United before he was replaced by Solskjaer.

After Mourinho was sacked, a

post on Pogba's Twitter account said "caption this", along with a knowing expression on his face, before being deleted.

"What I have now with Ole is

different because he wouldn't go against the players," said Pogba.

"Maybe Ole wouldn't pick the players like they don't exist any more. The difference between Mourinho and Ole," Mourinho is now manager of Tottenham, who were beaten 3-1 Sunday by a United side containing Pogba. Following the match, Mourinho was unhappy with comments by Solskjaer criticising Spurs for Son Heung-min.

"I am sure Mourinho said something that made people speak. That's what he does," said Pogba.

"We got the result that we want. Ole knows it and we enjoyed the moment."

"We know Mourinho and what he likes. We don't need this. We just focus on us."

"We won the game, he lost the game, and he doesn't want to speak about the game."

He added: "Everybody knows it. It's very Mourinho."

NOTICE OF ENVIRONMENTAL ASSESSMENT AND PUBLIC PARTICIPATION PROCESS

Amico Balance Industrial Consultants cc hereby gives notice to all potentially interested and affected parties (IAPs) that an application will be made to Environmental Commission in terms of the Environmental Management Act (No 7 of 2002) and the Environmental Impact Assessment Regulations (GN 30 of 6 February 2012) for the following activity:

Project Title: Proposed Telecommunication Licence Tower

Project Description: The Construction and Operation of a Telecommunication Licence Tower and Associated Infrastructure.

Project Location: The project site is located in Vredendal, Oos-Kaap, at the B1 1000 Oos-Kaap Region - Namibia.

Proposed Proponent: PTV LTD.

IAPs are invited to register with the consultant and give their comments and concerns in writing. Please take note of the following:

PUBLIC MEETING
Date: 4 May 2021
Venue: St Van Moere Primary School
Time: 18:00

To register or request for documents please submit your name, contact information and interest in the project, in writing to:

Mr Nqholiso Fradich
Tel: +244 (0) 81 147 2029
Email: amick@amick.com

NOTICE OF ENVIRONMENTAL ASSESSMENT AND PUBLIC PARTICIPATION PROCESS

Amico Balance Industrial Consultants cc hereby gives notice to all potentially interested and affected parties (IAPs) that an application will be made to Environmental Commission in terms of the Environmental Management Act (No 7 of 2002) and the Environmental Impact Assessment Regulations (GN 30 of 6 February 2012) for the following activity:

PROJECT DESCRIPTION: PROPOSED CONSTRUCTION AND OPERATION OF A 30 MW MERCANTILE SOLAR PHOTOVOLTAIC PLANT

PROJECT LOCATION: GERUR FARM IN OUSK, FURNHE REGION - NAMIBIA.

PROPOSED: SMO ENERGY (PT) LTD

IAPs are invited to register with the consultant and give their comments and concerns in writing. Please take note of the following:

PUBLIC MEETING
Date: Friday 29 April 2021
Venue: Namibian Office, Corner of Ganga Avenue and President Street, Otjomuise, Oshana Region, Namibia.

To register or request for documents please submit your name, contact information and interest in the project in writing to:

Mr Nqholiso Fradich
Tel: +244 (0) 81 147 2029
Email: amick@amick.com

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ENVIRONMENTAL IMPACT ASSESSMENT FOR MINERAL EXPLORATION ACTIVITIES ON EPL 7010

This notice serves to inform all interested and affected parties that an application for the environmental clearance certificate will be launched with the Environmental Commissioner in terms of the Environmental Management Act (No.7 of 2007) and the Environmental Regulations (GN 30 of 2012). The project will comprise of conventional mineral exploration activities.

Location: The mineral license is located 2 km northeast of Khorixas.

Proponent: Muzengua Urimonganda Rudolf

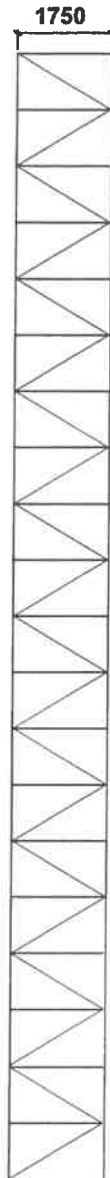
All interested and affected parties are hereby invited to register and submit their comments regarding the proposed project on or before 20/04/2021. Details of public meeting will be communicated to registered parties. Contact details for registration and further information:

Mr. N Amutenya
Email: eia@impala.com
Tel: +264856630598

IMPALA ENVIRONMENTAL

Tower ref	Height		SECTION	30m 1750 SERIES	
	(m)			1750	
	0	30			
	3	27	1	3000	
	6	24	2	3000	
	9	21	3	3000	
	12	18	4	3000	
	15	15	5	3000	
	18	12	6	3000	
	21	9	7	3000	
	24	6	8	3000	
	27	3	9	3000	
	30	0	10	3000	

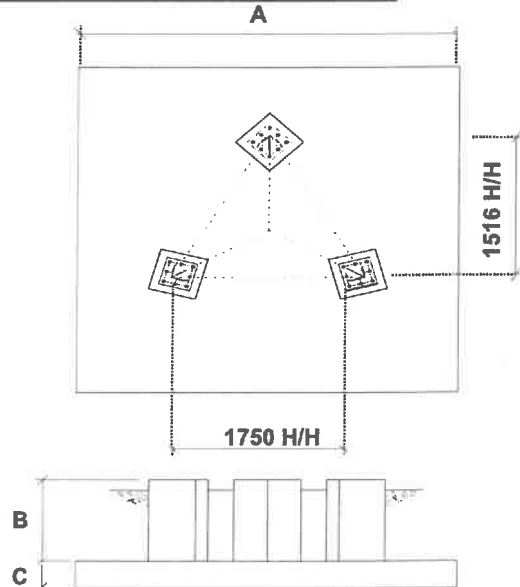
RDT1750/12345678910



Design Codes:
 SANS 10162 Part 1 2005
 SANS 10160 1989 As amended.

Notes :

1) Total mass of tower.	[kg]	3197
2) Maximum force (Per leg)	[kN]	1112
3) Maximum uplift (Per leg)	[kN]	1101
4) Site altitude.	[m]	0
5) Wind speed.	[m/s]	42
6) Terrain category.		2B
7) Mean wind return.	[yrs]	1:50
8) Artificial base height.	[m]	0
9) Flat plt area:		
a) Antenna area, Cf=1.0	[m ²]	18.00
b) Feeder, Cat ladder & Wave guide.	[m ² /m]	0.382
c) Tower.	[m ²]	8.9
10) Equivalent antenna force	[kN]	21.45
11) All steelwork S355JR		
12) Bolts M16, M20, M24 Gr 8.8		



Foundation Criteria:	150 kPa	100 kPa	75 kPa	
1) Concrete grade	25/19	25/19	25/19	MPa
2) Blinding grade	10/19	10/19	10/19	MPa
3) Concrete Volume	13.7	15.9	18.3	m ³
4) Blinding Volume	1.3	1.6	1.9	m ³
5) Excavation Volume	39	38	35	m ³
6) Backfill Volume	25	22	16	m ³
7) Steel	1236	1430	1648	kg
8) Stubs	750	750	750	mm
9) Pmax	150	100	75	kPa
10) Mr	N/A	N/A	N/A	kNm
11) Angle of repose	30	20	10	°
12) Dimension A	5100	5650	6200	mm
13) Dimension B	1200	900	600	mm
14) Dimension C	450	450	450	mm
15) Ground Cover	1050	750	450	mm

MP20 008

Van den Ende & Associates
 Consulting Engineers CC
 P.O. Box 970 Tel: +27 12 2441227/35
 Broederstraat Fax: +27 12 2440030
 0240 VAT No: 4860198265

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Reference : RDT1750/12345678910
 30m 1750 SERIES
 Specification sheet

Compiled by:	Compiled for:	Date	Rev
MVDE	Mast Projects	02-Jul-20	0



Private Bag 12003 Windhoek Namibia | (Tel) +264 83 235 2100 | (Web) <http://www.ncaa.com.na>

NCAA:AGA:44/2021

27 April 2021

Managing Member
Junior Baiano Industrial Consultants
P.O. Box 23537
Windhoek

Dear Mr. Nghiyolwa,

SUBJECT: NOTICE OF ENVIRONMENTAL IMPACT ASSESSMENT FOR THE PROPOSED CONSTRUCTION AND OPERATION OF TELECOMMUNICATION TOWERS IN VEDDERSDAL, OKAHANDJA, NARRAVILLE, WALVIS BAY AND KALKFELD RESPECTIVELY

I refer to your letter dated 20th April 2021, in respect of the above-mentioned subject.

1. The Namibia Civil Aviation Regulations (**NAMCARs, Part 139**) on obstacle limitation and marking outside an aerodrome are as follows:

139.11.2 Erection of obstacles

- (1) A person may not cause or permit the erection or growth of an obstacle at, or in the vicinity of, an aerodrome, where the obstacle may prevent an aircraft operation from being conducted safely or the aerodrome from being usable.
- (2) The erection of buildings or other objects in the navigable airspace or in the vicinity of an aerodrome or navigation aid must be in accordance with standards prescribed in Document NAM-CATS-AH.
- (3) A person may not cause or permit any object, including new or extension of existing objects to penetrate the obstacle limitation surface, established in accordance with regulation 139.11.3, without the written permission of the Executive Director.

139.11.6 Objects outside obstacle limitation surfaces

- (1) A person may not construct any building, structure or other objects beyond the limits of the obstacle limitation surfaces of an aerodrome that extend above a height of 45 metres above the mean level of the aerodrome landing areas unless-
 - (a) that person has had prior consultation with the Executive Director;and

Board Members: Mr. Bethuel T. Mujetenga (Chairperson), Ms. Kadiya D. Hamutumwa (Deputy Chairperson),
Ms. Josephine N. Amukwa, Ms. Martha N. Hitenyanye, Mr. Fernando Somaeb, Mr. Melkisedek Uupindi,
Mr. Gordon Elliott (Interim Executive Director)

(b) the construction is in accordance with standards prescribed in Document NAM-CATS-AH.

(2) The Executive Director must whenever necessary, permit an aeronautical study to be conducted on the effect of the construction referred to in subregulation (1) on the operation of aircraft.

139.13.2 Objects to be marked or lighted

(1) An aerodrome operator must ensure that objects within the lateral boundaries of the obstacle limitation surfaces are marked, as appropriate, and if used at night or in conditions of low visibility, lighted, in accordance with standards prescribed in Document NAMCATS-AH, except that aircraft servicing equipment and vehicles used only on aprons may be exempted from this requirement.

(2) An aerodrome operator must ensure that obstacles outside the lateral boundaries of the obstacle limitation surfaces are marked and lighted in accordance with standards prescribed in Document NAM-CATS-AH.

139.13.3 Marking and lighting of objects

(1) The presence of objects which must be lighted, as specified in regulation 139.13.2, must be indicated by low, medium or high intensity obstacle lights or a combination of such lights in accordance with specifications prescribed in Document NAM-CATS-AH.

(2) Mobile objects, fixed objects and wind turbines must be marked or lighted in accordance with the standards prescribed in Document NAM-CATS-AH.


2. The application process states that,

2.1. An applicant is to submit form FSS-AGA-FORM-032 (attached), for the erection of permanent structures for each telecommunication tower in Veddersdal, Okahandja and Kalkfeld.

2.2 NAMCATS-AH (attached) provides guidance on the erection of obstacle as well as marking and/or lighting of objects.

2.3 The proposed location to construct a telecommunication tower in Narraville Walvis Bay falls under the jurisdiction of Walvis Bay International Airport, hence it is recommended to engage Namibia Airport Company for approval.

Yours sincerely,



Mr. Gordon Elliott

Interim Executive Director of Civil Aviation



SUBJECT: NOTICE OF ENVIRONMENTAL IMPACT ASSESSMENT FOR THE PROPOSED CONSTRUCTION AND OPERATION OF TELECOMMUNICATION TOWERS IN VEDDERSDAL, OKAHANDJA, NARRAVILLE, WALVIS BAY AND KALKFELD RESPECTIVELY



junior baiano

industrial consultants cc

Today for Tomorrow

002519447

Po box 23537
Windhoek
Tel: 061-219773
Cell: 0811472029
JuniorB200581@gmail.com

**Namibia Civil Aviation Authority
Interim Executive Director
Private Bag 12003
Ausspannplatz
Windhoek**

Att: Gordon Elliot

SUBJECT: NOTICE OF ENVIRONMENTAL IMPACT ASSESSMENT FOR THE PROPOSED CONSTRUCTION AND OPERATION OF TELECOMMUNICATION TOWERS IN VEDDERSDAL, OKAHANDJA, NARRAVILLE, WALVOSBAY AND KALKFELD RESPECTIVELY

This communique serves to notify NCAA on the proposed construction and operation of Telecommunication Towers in Veddertsdal, Okahandja, Narraville, Walvisbay and Kalkfeld respectively. Moreover, a notice is hereby given that an application for Environmental Clearance in terms of Environmental Management Act of 2007 (Act no 7 of 2007) and its regulations, government notice no. 30 of 2012 will be submitted to the Ministry of Environment and Tourism.

The coordinates are as follows:

AREA	COORDINATES
Narraville, Walvisbay	- 22° 57' 13.0 14° 32' 42.0
Kalkfeld	- 20.888977° 16.191341°
Veddertsdal, Okahandja	- 21.966394° 16.891606°


Based on the above and NCAA being identified as an important stakeholder or rather interested and affected party, I hereby would like to request input from your respective office on the assessments in terms of requirements and process for construction/erecting of a mast in the vicinity of an aerodrome.

Moreover, Junior Baiano Industrial Consultants, an independent Environmental Assessment Consultant was appointed by Powercom (PTY) LTD to facilitate the EIA process in order to satisfy the provisions of the Environmental Management Act of 2011 and Environmental Impact Assessment regulations of 2012, the application is currently halted by the Ministry of Environment because of lack of evidence that Namibia Civil Aviation Authority was consulted and input given thereof, hence my plea to treat this communique with the urgency it deserves.

For further enquiries do not hesitate to contact us on 061-219773/0811472029/085222222

Yours in truly,

Fredrich Nghiyolwa
Managing Member
Junior Baiano Industrial Consultants
20/04/21

 JUNIOR BAIANO
CC/2011/7445
Cell: +264 81 147 2029
+264 61 219 773
Email: fredrich@jbic.com.na



Po box 23537

Windhoek

Tel: 061-219773

Cell: 0811472029

JuniorB200581@gmail.com

The Acting Chief Executive Officer
Okahandja Town Council
Po Box 15
Okahandja

Att: Mr. Resella Nunda

SUBJECT: PUBLIC MEETING INVITATION AND NOTICE OF ENVIRONMENTAL IMPACT ASSESSMENT PROCESS FOR THE PROPOSED CONSTRUCTION AND OPERATION OF A TELECOMMUNICATION TOWER IN VEDDERSDAL, OKAHANDJA

This communique serves to notify the office of the Acting Chief Executive Officer of Okahandja Town Council on the proposed construction and operation of a Telecommunication Tower in Veddarsdal, Okahandja. Moreover, a notice is hereby given that an application for Environmental Clearance in terms of Environmental Management Act of 2007 (Act no 7 of 2007) and its regulations, government notice no. 30 of 2012 will be submitted to the Ministry of Environment and Tourism.

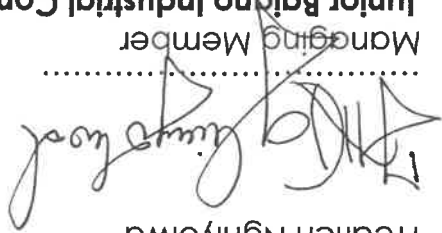
Junior Baiano Industrial Consultants, an independent Environmental Assessment Consultant was appointed by **Powercom (PTY) LTD** to facilitate the EIA process. In order to satisfy the provisions of the Environmental Management Act of 2011 and Environmental Impact Assessment regulations of 2012, a public consultation process must be undertaken, hence my singular honour to invite the Acting CEO to the public meeting that is scheduled to take place on the **6th of May 2021 at KW Von Maree Primary School, at 18h00.**

In addition, it is highly recommendable that the invitation is extended to the Environmental Health/ Management department /and or planning division.

For further enquiries do not hesitate to contact me on **061-219773/0811472029/085222222**

Yours in truly,

Junior Baiano Industrial Consultants
Managing Member

A handwritten signature in black ink, appearing to read 'Fredrich Nghiyoiwa', written over a dotted line.

Fredrich Nghiyoiwa

Po box 23537

Windhoek

Tel: 061-219773

Cell: 0811472029

JuniorB200581@gmail.com

Her Worship the Mayor
 Okahandja Town Council
 Po Box 15
 Okahandja

Att: Hon. Natasha Brinkman

**SUBJECT: PUBLIC MEETING INVITATION AND NOTICE OF ENVIRONMENTAL
 IMPACT ASSESSMENT PROCESS FOR THE PROPOSED CONSTRUCTION AND
 OPERATION OF A TELECOMMUNICATION TOWER IN VEDDESDAL,
 OKAHANDJA**

This commune serves to notify the office of Her Worship the Mayor of
 Okahandja Town Council on the proposed construction and operation
 of a Telecommunication Tower in Veddersdal, Okahandja. Moreover, a
 notice is hereby given that an application for Environmental Clearance
 in terms of Environmental Management Act of 2007 (Act no 7 of 2007)
 and its regulations, government notice no. 30 of 2012 will be submitted
 to the Ministry of Environment and Tourism.

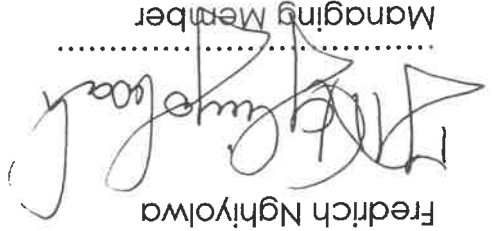
Junior Baiano Industrial Consultants, an independent Environmental
 Assessment Consultant was appointed by **Powercom (PTY) LTD** to
 facilitate the EIA process. In order to satisfy the provisions of the
 Environmental Management Act of 2011 and Environmental Impact
 Assessment regulations of 2012, a public consultation process must be
 undertaken, hence my singular honour to invite Her Worship the Mayor
 to the public meeting that is scheduled to take place on the **6th of May
 2021 at KW Von Maree Primary School, at 18h00.**

In addition, I hereby would like to request Her worship to spread the
 message of the public meeting amongst Okahandja community.

For further enquiries do not hesitate to contact us on **061-
 219773/0811472029/085222222**

Yours in truly,

Managing Member
Junior Baidano Industrial Consultants


Fredrich Nghiyoiwa

1. Neddersdal
Municipality
M. Toni Shikongo
081 2945461
Phillip Engala
081 2860482

2. Kalkfeld
Otyondjupa
Regional Council
Settlement Office
Otyondjupa
Ms. Lydia Ms
0811 297229
Ndenja
smkbuahuku@otjondjupa.org.na
emuningina@otjondjupa.org.na

3. Narraile
Municipality of Walvis Bay
Ms. Merinda Matsuis
064-201 3235
Merinda Matsuis@walvisbaycc.org.na

David Washona - Environment
064-214 304
David Washona@walvisbaycc.org.na

David Washona@walvisbaycc.org.na
Ngoni Ambsi@walvisbaycc.org.na

4. Councilor of Otyo Otyondjupa
Martene Mbakera
Candhiwey

PUBLIC MEETING:
**ENVIRONMENTAL ASSESSMENT FOR THE PROPOSED
CONSTRUCTION AND OPERATION OF A
TELECOMMUNICATION LATTICE TOWER AT VEDDERSDAL
OTJOZONDJUPA REGION-NAMIBIA**

06 May 2021 @ 18h00

**Presented by Fredrich Nghiyolwa
Junior Baiano Industrial Consultants cc**



junior baiano
industrial consultants cc

Today for Tomorrow

06/2001/17/003

Introduction & Purpose of this Meeting

- ❖ Powercom (PTY) LTD herein referred to as Powercom has identified different areas in Namibia that needs improved communication connectivity due to growth in population and economic activities.
- ❖ To achieve the objective of improved telecommunication connectivity, Powercom intends to establish telecommunication towers across the identified different locations. One of the identified areas that needs improved network connectivity is Veddersdal in Okahandja, and a site to set up a network tower has been identified.
- ❖ Powercom has thus appointed **Junior Baiano Industrial Consultants (JBIC)** to undertake the **Environmental Assessment (EA)** in order to obtain an **Environmental Clearance Certificate (ECC)** for the proposed development.

PROJECT RATIONAL

- ❖ There have been a growing demand in connectivity in different areas in Namibia. Because there is one major active service provider (MTC) operating in most areas. This has made it difficult for consumers in terms of alternatives and or voice & data connectivity.
- ❖ Project is being undertaken in conjunction with the Government goals under the Harambee Prosperity Plan as well as the NDP5 to improve voice and data access to the country.

PROJECT LOCATION



Project: Proposed Okahandja Telecommunications Tower
Client: Powercom
Environmental Consultant: Ameyo Nkomo Industrial Consultants cc
Spatial Analyst: T.E. Ruzovimb



Source: Esri, Maxar, GeoEye, Earthstar
Geographics, CNES/Airbus DS, USDA,
USGS, AeroGRID, IGN, and the GIS User
Community, Esri, HERE, Garmin, (c)
OpenStreetMap contributors, and the GIS
user community

Reason for Environmental Assessment

- ❖ To satisfy the requirements of the Environmental Management Act (EMA) (No. 7, 2007) and the Environmental Impact Assessment (EIA) regulations (GN 30 of 6 February 2012). The following listed activities were triggered by the proposed project:

ACTIVITY	RELEVANT SECTIONS
INFRASTRUCTURE	-10.1 (g) communication networks including towers, telecommunication and marine telecommunication lines and cables;

Reason for Environmental Assessment contd.....

- ❖ Identify potential environmental impacts (social & biophysical) and to determine their likely significance
- ❖ Recommend mitigation measures to minimise negative impacts and to enhance positive impacts
- ❖ Allow for public involvement
- ❖ Inform the Environmental Authority's decision-making (Ministry of Environment and Tourism: Department of Environmental Affairs and Development, MET:DEA)

Public Participation Process to date

- ❖ Placing EIA advertisements in two newspapers (The Confidante and the Windhoek Observer).
- ❖ Placing notices around Okahandja and continuous consultation with important stakeholders like Okahandja Town Council and Office of the mayor
- ❖ Providing written notice and Background Information Document (BID) to potential I&APs and stakeholders.
- ❖ Requesting potential I&APs to recommend other potential I&APs to be included in database (chain referral process).

PROJECT CYCLE:

- Project Identification and design
- Environmental Impact Assessment
- Implementation
- Construction of the development

2021/05/
04

8

ANTICIPATED PROJECT IMPACTS

Potential Impacts	Assessment to be Undertaken
Negative Impacts	
Land use Change (Aesthetic value)	baseline assessment
Impacts on fauna and Flora	JBIC EIA Team Vertebrate fauna (wildlife) and flora (vegetation) baseline study
Avian Impacts	JBIC EIA Team baseline assessment
Health and Safety hazards	JBIC EIA Team baseline assessment
Cumulative impacts of the project Operation	JBIC EIA Team baseline assessment
Positive Impacts	
Revenue generation	JBIC EIA Team baseline assessment
Employment creation	JBIC EIA Team baseline assessment

Conclusions

- ❖ Based on the project, the EAP is of the opinion that the proposed development be authorised as the potential impacts can be mitigated with a corrective action plan.
- ❖ The significance of negative impacts can be reduced with effective and appropriate mitigation provided in the Draft Report and the EMP.
- ❖ If authorised, the implementation of an EMP should be adhered to as a condition of the construction and operational phases.



Way Forward

ASSESSMENT PHASE

- ▶ Provide comments on Public Meeting & Draft Environmental Assessment Report (DEAR):
- ▶ Final EAR to incl. all comments and be submitted to MET: DEA for authority review and authorisation.

Due date: 21 May 2021

Comments can be sent to:

Junior Baiano Industrial Consultants cc

P.O. Box 23537, Windhoek, Namibia

Tel: 061 219 773

Cell: 0811472029

E-mail: fredrich@jbic.com.na

JuniorB200581@gmail.com



junior baiano
industrial consultants cc

Deloitte & Touche

CURRICULUM VITAE

OF

**FREDRICH NDAHANGETATE
NGHIYOLWA -**



FREDRICH NDAHANGETATE NGHİYOLWA

Unit 12, Peneyambeko Court 1

Gladiola Street, Khomasdal

Tel: 061-219 773

Cell: 0811472029

Personal Information

Nationality	:	Namibian
Date of Birth	:	20 May 1981
Place of birth	:	Oshakati, Oshana, Region
Identity number	:	81052000061
Marital status	:	Single
Sex	:	Male
Dependent	:	Two
Driving License	:	Code B
Email address	:	jbindustrialconsultants@gmail.com

CHARACTER

- Good interpersonal skills and Teamwork
 - Fast Learner
 - Honesty and Independent
 - Self-driven
 - Dedicated
-

EDUCATION

- 2012 **University of the Free States**
Bluris: Occupational Risk Law
Courses included: English for Law, Introduction to Legal Science, Criminal Law, SHEQ Law, Introduction to Health and Safety Legislation, Incident Investigation
- 2008 **Cape Peninsula University of Technology**
Btech: Environmental Health
Courses included: Occupational health and Safety, Environmental Epidemiology, Waste Management, Management Practice, Research Methodology.
- 2005 - 2007 **Cape Peninsula University of Technology**
National Diploma: Environmental Health
Courses included Physics and Chemistry, Anatomy and Physiology, Microbiology: Public Health, Environmental Planning, Community Development, Occupational Health and Safety, Environmental Pollution, Management Practice, Food and Meat Hygiene, Epidemiology
- 1995 - 1999 **Centaurus High School**
Grade 8 – Grade 12
Natural Economy C
Economics D
Accounting E
Development Studies C
English first Language D
Business Studies E
Biology G
- 1988 – 1994 **Hashiyana Junior Primary School**
Grade 1 – Grade 7
-

RESEARCH

- 2008 – Quantifying the risk of cement dust exposures among cement factory workers
-

WORK EXPERIENCE

2015

Currently Telecom Namibia
Employee Wellness Manager

- Responsible for overall Safety, Health and Quality compliance of Telecom Namibia, in all 13 Regions
Responsible for the Telecom Namibia Wellness Programme, including the operational running of Nova Vita Rehabilitation center.

2012

Erongo Red

Occupational Health and Safety Officer

- Ensure that no elements of any kind poses a health and safety risk to Erongo Red employees, visitors and the stakeholders, thus applying the necessary legislature of the Labour Act, Occupational Health and Safety Act and the OHSAS 18001 Safety Management system.

2009-2012

Skorpionzinc
Risk Officer

- Maintain the OHSAS 18001 accreditation of the occupational health and safety management system applicable to open cast mining and refining of zinc ore including support services.

2009

Nampower

Safety, Health and Environmental Officer

- SHE statistics
- Conducting SHE training
- Maintaining ISO standards pertaining to SHE
- Conducting SHE audits and inspections to ensure compliance

- Managing SHE programmes
- Incident and accident investigations
- Off the job SHE systems
- Attend SHE meetings
- Budget control
- Administration

2008

Occupational Risk Management Services in the Republic of South Africa

Health and Safety Consultant

- Ensure legal compliance by conducting safety audits
- Implementing functional safety management systems at construction sites-OHSAS 1800

2001 – 2004

Ongwediva Town Council

Health Promoter

- Inspection of food premises
- Food Control and Hygiene
- Control of environmental health
- Performing other administrative tasks
- Health and Safety education
- Communicable disease tracing and surveillance
- Health and Safety Promotion

2000

Game Namibia (Oshakati)

Stock Control

- Checking incoming stock
- Stock control
- Entering bar codes on products

INTERESTS/HOBBIES

- Playing soccer
 - Traveling,
 - Listening
 - Reading
 - Socializing
-

COMPUTER SKILLS

- MS Word
 - MS Excel
 - MS PowerPoint
 - Ms Access
 - Web-designing
 - Good Internet knowledge
-

REFERENCES

1. Mr. Immanuel Rusford
Senior Lecturer
Cape Peninsula University of Technology
P O Box 1906
Tel: 0027 21 959 6393
Cell: 0027 21 946 3661
 2. Mr. Herman Els
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Occupational Risk Management Services (PTY)
Ltd
22A Louws Avenue
Paarl, 7646
Tel +27 861112197
Cell: 0832302636
 3. Mr. Damian Egumbo
Chief Executive Officer
Ongwediva Town Council
P/Bag 5549
Oshakati
Cell no: 0811274297
 4. Mr. Andrew Kanime
Chief Human Resources Officer
Telecom Namibia
Tel no: 061-201 201 2585
0811284595
 5. Mr. Justice Tsauseb
Health and Safety Manager
Skorpionzinc
Private bag 2003
Rosh Pinah
Tel no: 063-274 2324
Cell no: 0811223533
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