

**ENVIRONMENTAL IMPACT ASSESSMENT
FOR THE SUBDIVISION OF ERF 6831 AND
CREATION OF A PUBLIC ROAD (STREET) IN
EXTENSION 15, ONGWEDIVA, OSHANA
REGION.**

ENVIRONMENTAL SCOPING REPORT

Prepared For

Ms. Ndapunikwa Uukule

P. O. Box 1998

Oshakati

Prepared by



+264 81142 2927

info@greegain.com.na

<https://www.greengain.com.na>

JUNE 2022

DOCUMENT INFORMATION

PROJECT NAME: Subdivision of Erf 6831 and creation of a public road (street) at Extension 15, Ongwediva, Oshana region.

DOCUMENT TYPE: Environmental Management Plan

CLIENT: Ms. Ndapunikwa Uukule

PREPARED BY: Green Gain Consultants cc
P.O. Box 5303, Walvis Bay
Cell: 081 1422927
Email: info@greegain.com.na

EAP: Mr. Joseph Kondja Amushila

APP: 0010407

PERIOD: June 2022

Table of Contents

| | | |
|-----|--|----|
| 1. | Introduction and Background | 5 |
| 1.1 | Introduction..... | 5 |
| 1.2 | Objectives of the EMP..... | 5 |
| 2. | Responsibilities..... | 5 |
| 2.1 | The Proponent | 6 |
| 2.2 | Contractor and sub-contractors..... | 6 |
| 2.3 | Local Authority: Ongwediva Town Council..... | 6 |
| 3. | Legal framework..... | 7 |
| 4. | PROPOSED MITIGATION MEASURES | 9 |
| 5. | Conclusion | 13 |

List of acronyms

| | |
|--------|---|
| DEAF: | Directorate of Environmental Affairs and Forestry |
| EAP: | Environmental Assessment Policy |
| EIA: | Environmental Impact Assessments |
| EMA: | Environmental Management Act |
| EMP: | Environmental Management Plan |
| I&APs: | Interested and Affected Parties |
| MAWLR | Ministry of Agriculture, Water, and land Reform |
| MEFT: | Ministry of Environment, Forestry and Tourism |
| MSDS: | Material Safety Data Sheet |
| MURD: | Ministry of Urban and Rural Development |
| NORED | Northern Regional Electricity Distributor |
| NSA: | Namibia Statistic Agency |
| PPE: | Personal Protective Equipment |

1. Introduction and Background

1.1 Introduction

This EMP has been prepared for the proposed subdivision of Erf 6831 and creation of a public roads (street) at Extension 15, Ongwediva, oshana region. The main purpose of the EMP is to ensure that undue or reasonably avoidable adverse caused by the proposed project are minimized or prevented and the positive benefits of the project are enhanced. The EMP was prepared as part of the EIA process with the purpose of ensuring that the management actions arising from Environmental Impact Assessment (EIA) processes are clearly defined and implemented through all phases of the project life cycle.

The implementation of the EMP is the ultimate responsibility of the proponent. However, all parties that have roles to play in the proposed activities should be made aware of the contents of the EMP, to plan the relevant activities that the project will include accordingly and in an environmentally sound manner.

1.2 Objectives of the EMP

The EMP has the following objectives:

- To provide information on the potential negative impacts associated with the proposed project
- Present mitigation measures for the identified negative impacts and enhancement measures for the positive impacts.
- To provide guidelines for the management and monitoring of the identified environmental issues.
- To provide guidelines to the responsible persons to follow appropriate contingency plans in the case of various possible impacts.

2. Responsibilities

It is the responsibility of the proponent to ensure the successful implementation of this EMP and any condition to be imposed by the Ministry of Environment, Forestry and Tourism (MEFT). However, the implementation of this EMP also requires the involvement of various role players, each with specific responsibilities to ensure that the project is operated in an environmentally sensible manner.

2.1 The Proponent

Responsibilities

- a) Appoint a relevant qualified Town Planner who will
 - apply town planning procedures in line with relevant legislations
 - Oversee the implementation of the final EMP after approval by DEAF and ensure the project comply with the EMP and conditions therein.
 - Ensure that the proposed subdivision by the planner is done in compliance to this EMP and the Townships and Division of Land Ordinance 11 of 1963.
- b) Appoint the responsible official/s to take the responsibility of the following.
 - Provide Environmental training and awareness on the EMP to all contractors, sub-contractors and, employees involved in the construction.
 - Conduct regular inspections and monitoring during the construction phase.
 - Review of the on-site environmental management and implementation of the EMP by the maintenance team or Contractor and sub-contractors.
- c) In the absence of these appointments, the Proponent shall take the responsibility.

2.2 Contractor and sub-contractors

It is expected that various contractors and sub-contractors will be appointed at various times and for various tasks throughout the life cycle of this project, especially during the construction and operation phase. All appointed contractors shall ensure to comply with the EMP and its conditions. The proponent must ensure that a copy of the EMP is given to all contractors before the commencement of any work on the project. The contractor upon receiving this EMP should ensure.

- To undertake their activities in an environmentally sensitive manner and within the context of this EMP
- To undertake good housekeeping practices during the duration of the activities
- To ensure that adequate environmental awareness training takes place in the language of the employees.

2.3 Local Authority: Ongwediva Town Council

The Ongwediva Town Council as a concerned Local Authority (LA) for this project has the following roles to play

- Give consent to the proposed subdivision
- Ensure the subdivision and proposed layout are in line with the relevant by-laws and the Urban and Regional Planning Act
- Oversee the property development, usage and creation of the envisaged road

3. Legal framework

The proponent must ensure compliance with that all project activities complies the following legislations.

| LEGISLATION | PROVISION |
|---|--|
| Constitution of the Republic of Namibia (1990) | <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. |
| Environmental Management Act No. 07 of 2007 | <p>The purpose of this Act is to promote 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; and to provide for incidental matters. 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 for the interested and affected parties to voice and register their opinions and concern about the proposed project.</p> |
| Water Resources Management Act 2004 | <p>The Water Resources Management Act (No 11 of 2013) stipulates conditions that ensure effluent that is produced to be of a certain standard. There should also be controls on the disposal of sewage, the purification of effluent, measures should be taken to ensure the prevention of surface and groundwater pollution and water resources should be used in a sustainable manner.</p> |
| Pollution Control and Waste Management Bill | <p>This Bill serves to regulate and prevent the discharge of pollutants to air and water as well as providing for general waste management. This Bill will license discharge into watercourses and emissions into the air.</p> |
| Labour Act (No 11 of 2007) | <p>135 (f): “the steps to be taken by the owners of premises used or intended for use as factories or places where machinery is used, or by occupiers of such premises or by users of machinery in connection with the structure of such buildings of otherwise in order to prevent or extinguish fires, and to ensure the safety in the event of fire, of persons in such building;” (Ministry of Labour and Employment Creation)</p> |

| | |
|---|--|
| <p>Noise Control Regulations (Labour Act)</p> | <p>It is essential to ensure that before any development project is approved and undertaken, an assessment or evaluation of expected noise level is done.</p> |
| <p>Town and Regional Planners Act, 1996 (Act No. 9 of 1996)</p> | <p>This Act establishes the Namibian Council for Town and Regional Planners, defines functions, and powers of the Council and provides for the registration of town and regional planners and the supervision over their conduct. The Minister may, on recommendation of the Council prescribe the kinds of work of a town and regional planning nature which shall be reserved for town and regional planners. The Act also defines improper conduct and defines disciplinary powers of the Council. Furthermore, the Act provides for the establishment of national, regional, and urban structure plans, and the development of zoning schemes. It also deals with a variety of related land use control issues such as the subdivision and consolidation of land and the establishment and extension or urban areas.</p> |
| <p>Land Survey Act 33 of 1993</p> | <p>To regulate the survey of land; and to provide for matters incidental thereto.</p> |
| <p>Townships and Division of Land Ordinance 11 of 1963, as amended</p> | <p>The objective of this Ordinance is to consolidate and amend the laws relating to the establishment of townships and to provide for the regulation and control of the development and subdivision of land and for matters incidental thereto.</p> |
| <p>Local Authorities Act (No. 23 of 1992)</p> | <p>The purpose of the Local Authorities Act is to provide for the determination, for purposes of local government, of local authority councils; the establishment of such local authority councils; and to define the powers, duties, and functions of local authority councils; and to provide for incidental matters.</p> |
| <p>Soil Conservation Act 76 of 1969</p> | <p>The Soil Conservation Act stipulates that the combating and preventing of soil erosion should take place; the soil should also be conserved, protected, and improved, vegetation and water sources and resources should also be preserved and maintained. When proper mitigation measures are followed along the construction and implementation phase of the project, the natural characteristics of the property is expected to have a moderate to low impact on the environment.</p> |

4. PROPOSED MITIGATION MEASURES

It is the core responsibility of the proponent to ensure the successful implementation of this EMP during the planning & design and construction phase and adhere to any condition to be imposed by the competent authority or by the regulatory authority. The proponent must ensure that a copy of the EMP is given to all contractors before commencement of any work at the project.

Table 1: Potential impacts and mitigation measures during the planning phase

| Environmental Impacts | Mitigation Measures | Roles and Responsibilities | |
|---|--|----------------------------|--------------|
| | | Implementation | Monitoring |
| Legal compliance | <ul style="list-style-type: none"> -The sizes of the road and that of the newly created erven should be in line with the Ongwediva Town Planning Scheme -Consent should be obtained from the Ongwediva Town Council -Approval should be obtained from the Urban and Regional Planning Board | Town Planner | Proponent |
| Impact on Biodiversity (flora and fauna) | <ul style="list-style-type: none"> Large trees should be incorporated in the designs (should be left out) Provision should be made for storm water management on the created road. This can be achieved by making provision for culverts or storm water channel | Developer/Proponent | Town Council |
| Provision for Traffic management | <ul style="list-style-type: none"> The road width is sufficient enough to accommodate traffic on both side Make provision for sufficient pedestrian walkways alongside the roads | Town Planner | Town Council |
| Land use effects | <ul style="list-style-type: none"> Provision should be made for service lines to cross the new road i.e., provision for sleeves in order to avoid future land use effects during the operation phase. | Developer/Contractor | Town Council |

Table 2: Potential impacts and Mitigation measures during construction phase

| Environmental Impacts | Mitigation Measures | Roles and Responsibilities | |
|---|--|--------------------------------|--------------|
| | | Implementation | Monitoring |
| Impact on Biodiversity (flora and fauna) | <ul style="list-style-type: none"> • Only vegetation directly affected must be cleared • No animal including small mammals i.e., ground-burrowing squirrel etc. be killed on purpose. • Make provision for culverts to allow free flow of stormwater during rainy season. | Town planner Contractor | Town Council |
| Visual intrusion | <ul style="list-style-type: none"> • The site must be kept clear of building rubble and other waste. • All material must be stored away from the site or in a temporary storeroom. • The construction site must be condoned off during the entire construction period. | Contractor | Town Council |
| Provision for Traffic management | <ul style="list-style-type: none"> • Make provision for road traffic control measures i.e., intersections. • Provide traffic regulation during construction phase. • Insert speed calming measures • Make use of flagmen to regulate traffic | Town Planner Contractor | Town Council |
| Water and Energy demand Management | <ul style="list-style-type: none"> • Commit to minimizing the use of water during construction phase. • Make provision for renewable energy • Prevent contamination of surface water runoff | Contractor | Town Council |
| Waste Management | <ul style="list-style-type: none"> • The site should be always kept tidy. • No waste may be buried or burned on site or anywhere else. • All domestic and general construction waste produced daily should be cleaned and contained daily. | Contractor | Town Council |

| | | | |
|---|--|------------|--------------|
| | <ul style="list-style-type: none"> • Separate waste containers/bins for hazardous and domestic/general waste must be provided onsite. • Provide refuse bins and ensure regular waste collection (weekly) | | |
| Impact on Soil | <ul style="list-style-type: none"> • Gravel sand to be used for road construction must be from approved borrow pits or authorized suppliers. • Do not park vehicle or implement with leaks for too long at the site. • All vehicles must be serviced offsite. • Contaminated soil must be cleaned up. • Spoil heaps should be flattened to the similar adjacent ground, to prevent soil erosion, thus encouraging natural vegetation. • All surfaces hardened due to construction must be ripped and material imported thereon must be removed | Contractor | Town Council |
| Public and Occupational safety risks | <ul style="list-style-type: none"> • All employees must be provided with Personal Protective Equipment (PPE) • The site must be cordoned off and be out of bound for animal and people. • Provide signage at the construction site. • Employees must be given training in line with their job | Contractor | Town Council |
| Employment creation | <ul style="list-style-type: none"> • Employ as many local people as possible | Proponent | Town Council |
| Economic prosperity | <ul style="list-style-type: none"> • Local contractors must be given a priority. • Materials should be sourced from local suppliers in the first attempt | Proponent | Town Council |

Table 3: Mitigation measures during Operation phase

| Environmental Issue/Impacts | Mitigation Measures | Roles and Responsibilities |
|-----------------------------------|---|----------------------------|
| | | Implementation |
| Pollution of groundwater | <ul style="list-style-type: none"> • No direct discharge of pollution (wastewater or solid waste) into the watercourse • Use environmentally friendly deicer for road marking. • Clean-up all leakages, spillages • Do not discharge waste directly in the soil | Town Council |
| Impact of surface drainage | <ul style="list-style-type: none"> • Provide routine maintenance to drainage channels | Town Council |
| Impact on water | <ul style="list-style-type: none"> • Prevent contamination surface water. • Enforce water conservation measures during road maintenance works | Town Council |
| Impact to the soil | <ul style="list-style-type: none"> • Use environmentally friendly deicer for road marking. • Avoid, prevent any case of soil erosion by ensuring proper stormwater management. | Town Council |
| Aesthetic view of the area | <ul style="list-style-type: none"> • The site must be clear of litter. • All waste must be removed and disposed of to the landfill site. • Plant ornamental vegetation to enhance the aesthetic view. • Provide routine maintenance to the road infrastructures, signatures markings etc. | Town Council |
| Traffic impacts | <ul style="list-style-type: none"> • Ensure road signs and markings at the intersection to the existing roads. • Provide and maintain pedestrian crossing | Town Council |
| Waste generation | <ul style="list-style-type: none"> • Provide street liter bins. • Ensure regular picking up and street sweeping | Town Council |

5. Conclusion

Although the implementation of this EMP requires a multitude of administration of different role players, the proponent should play a pivotal role in the implementation of this EMP as outlined in the report. The proponent should therefore ensure proper coordination with other stakeholders and may provide training to contractors and sub-contractors on the content of this EMP.

The proponent should also ensure to avail necessary resources and synergies to enable the implementation of this EMP. Upon approval by the authority, the EMP shall be considered a legally binding document and any deviation or transgression from this EMP is punishable by law as per the Environmental Management Act, No. 07 of 2007. A copy of this EMP shall be always kept by the proponent or responsible person. Lastly, this EMP is valid until the project's successful implementation.