ENVIRONMENTAL MANAGEMENT PLAN (EMP) FOR THE CONSTRUCTION AND OPERATION OF A RECREATIONAL PARK AND ACCOMMODATION FACILITY AT OSHONDO VILLAGE, ANAMULENGE CONSTITUENCY, OMUSATI REGION



PROJECT DETAILS

	ENVIRONMENTAL MANAGEMENT PLAN (EMP) FOR THE ESTABLISHMENT AND		
OPERATION OF A RECREATIONAL PARK AND AC		RK AND ACCOMMO	DDATION FACILITY
	AT OSHONDO VILLAGE, ANAMULENO	GE CONSTITUENCY, OMUSATI REGION	
APP Reference	APP - 004415		
	NAMTRASLATION SERVICES CC		
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Report period	MAY 2021		
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RESUBMISSION

ABBREVIATION

AIDS Acquired Immunodeficiency Syndrome

CC Close Cooperation

DEAF Department of Environmental Affairs and Forestry

EA Environmental Assessment

EAP Environmental Assessment Practitioner

ECC Environmental Clearance Certificate

ECO Environmental Compliance Officer

EIA Environmental Impact Assessment

EMA Environmental Management Act

EMP Environmental Management Plan

HIV Human Immunodeficiency Virus

MEFT Ministry of Environment, Forestry and Tourism

NTS Namtranslation Services

PPE Personal Protective Equipment

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1. INTRODUCTION

Namtranslation Services cc (NTS) is a wholly Namibian owned company established in 2005. NTS intents to establish and operate a recreational park and accommodation facility at Oshondo village within Anamulenge constituency, Omusati region. The planned development will be established on a land measuring approximately 3 hectares at Oshondo village. The land had been granted by the Ombalantu Traditional Authority (OTA) to NTS after following all the correct procedures. The Traditional Authority has given NTS a permission to construct and operate a recreational park and accommodation facility at the village, since it will contribute immensely to cultural tourism in the area as well as economic upliftment of the village. The envisioned recreational park and accommodation facility will enhance recreational activities and cultural tourism in the community and at the same time create the much-needed employment opportunities to the local people. Oshondo village is situated within the Anamulenge constituency and has been identified as the potential area due to its proximity to the town of Outapi including surrounding villages in the proximity of Anamulenge. The place has accessibility to electricity and water and schools which make the proposed recreational park available to the intended users due to its strategically location. The construction of the proposed development will include listed activities in terms of Namibia's Environmental Management Act (No. 7 of 2007) and EIA regulations (GN 30 of 6 February 2012). Therefore, an Environmental Clearance Certificate (ECC) from the Office of the Environmental commissioner, Department of Environmental Affairs and Forestry (DEAF) within the Ministry of Environment, Forestry and Tourism (MEFT) is required and this prompted the Environmental Impact Assessment (EIA) to be conducted.

Namtranslation Service cc, hereinafter referred to as the proponent intends to carry out the following activity:

 Environmental Impact Assessment (EIA) for the establishment and operation of a recreational park and accommodation facility at Oshondo village, Anamulenge Constituency, Omusati region.

The objective of the intended Environmental Assessment is therefore required to assess the potential social and environmental impacts associated with the establishment and operation of a recreational park and accommodation facility at Oshondo village, within the Anamulenge constituency and formulate mitigation measures for the conceivable impacts.

The above is a listed activity in terms of the Environmental Management Act (No. 7 of 2007) and Environmental Impact Assessment Regulations (Government Notice No. 30 of 2012).

In terms of the Environmental Management Act (No. 7 of 2007) and Environmental Impact Assessment Regulations (Government Notice No. 30 of 2012), the following listed activities in **Table 1** were triggered by the proposed development:

Table 2: List of triggered activities identified in the EIA Regulations which apply to the proposed development.

Activity description and No(s):	Description of relevant Activity	The portion of the development as per the project description that relates to the applicable listed activity
Activity 7 (Agriculture activities)	The introduction of alien species into the local ecosystem.	The proposed project entails the introduction and planting of alien species within the recreational park to improve the aesthetic value of the area.
Activity 6 (Tourism development activities)	The construction of other tourism and hospitalities facilities.	The proposed project entails the construction of a campsite and accommodation facility for tourism purposes.

An Environmental Management Plan (EMP) is one of the imperative outputs of the EA process as it details all of the proposed mitigation and monitoring arrangements, establish timeline as well as explicit dispensed tasks. This EMP provide the mitigation and monitoring actions to be applied during the subsequent phases of the proposed developments:

- Construction phase the period during which the proponent, having dealt with the necessary legislative and administrative arrangements, appoints a contractor to engage in the construction of a recreational park and accommodation facility;
- Operational phase the period during which the proponent commenced with the operation of the recreational park and accommodation facility.

The rehabilitation of the of a recreational park and accommodation facility is not expected to take place once the facility commences with the operation, but it is extremely suggested that the subject area assumes economically viable alternative uses and not cause adverse hazard to local people optimising this lands; when the facility ceases its operation some suggested recommendation is detailed in **Section G.**

2. PROJECT LOCATION

The proposed recreational park and accommodation facility will be established at Oshondo village located approximately 3 Km east of Outapi and 1 Km north of Anamulenge Roman Catholic Missionary within the Anamulenge constituency in Omusati region (see **Figure 1** below for the proposed site).



Figure 1: Proposed area for the recreational park and accommodation facility (red perimeter) at Oshondo village, Anamulenge constituency, Omusati region.

Table 2: GPS coordinates for the proposed recreational park and accommodation facility at Oshondo village, Anamulenge constituency, Omusati region.

Way point no.	Latitude S	Longitude E
1.	-17.488252	15.007294
2.	-17.488284	15.008757
3.	-17.489501	15.008312
4.	-17.489128	15.007438
5.	-17.488941	15.007285

3. PURPOSE OF THE EMP

This Environmental Management Plan (EMP) covers the appropriate framework which encompasses the mitigation approach, monitoring actions and management control programs to condense possible environmental impacts to inconsequential levels. In addition, the roles and responsibility of persons accountable for in the proposed establishment and operation of a recreational park and accommodation facility at Oshondo village. This EMP includes the mitigation measures for the potential impacts associated with the proposed establishment and operation of the facility.

4. COMPLIANCE TO THE EMP

This EMP is justifiably a lawful binding document as given under the provisions of the Environmental Management Act, 2007 (Act No. 7 of 2007). Thus, **NTS** as well as the appointed contractors must comply with the mitigation measures detailed in this document. It should be noted that the EMP is a living document and is subjected to modification depending on the variation with the state of the environment and new information that may be imminent, hence, it must be reviewed and updated accordingly with the provision of the EMA.

5. LEGAL AND POLICY FRAMEWORK

The proposed project shall be established and operated under the provision of the relevant statutory framework of Namibia and international laws of which Namibia is signatory.

5.1 Applicable and relevant statutory framework of Namibia

Table 3. Legal requirements for the proposed establishment and operation of a recreational park and accommodation facility at Oshondo village.

Legis	slature/Policies	3	Relevant provision	Project Implication
The	Constitution	of	Article 95(1) of the Constitution of Namibia states that: "The State shall actively	To undertake the EA in order to maintain the
the	Republic	of	promote and maintain the welfare of the people by adopting policies aimed at the	ecological process and diversity of ecosystem.
Nam	ibia		maintenance of ecosystems, essential ecological processes and biological diversity of	The proponent shall advocate for sound
			Namibia and utilization of living natural resources on a sustainable basis for the benefit	environmental management as stipulated in the
			of all Namibians, both present and future".	Constitution through the implementation of the
			Article 91 (c) provides for duty to guard against "the degradation and destructions of	environment management plan prepared for this
			ecosystems and failure to protect the beauty and character of Namibia".	project.
				The operation for a recreational park and
				accommodation facility should be done in a
				sustainable manner to ensure that the beauty of
				the area and/or Namibia is maintained.

Environmental	Section 2 outlines the objective of the Act which is to promote the sustainable	The management of this project must be
Management Act No.	management of the environment and the use of natural resources by establishing	informed by the EMA.
7 of 2007 (EMA)	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.	
	Additionally, the act also provides procedure for adequate public participation during	
	the environmental assessment process for the interested and affected parties to	
	raise and register their opinions and concern about the proposed project.	
EIA Regulations GN	GN 29 Identifies and lists certain activities that cannot be undertaken without obtaining	Construction and clearing of vegetation are one
28, 29, and 30 of EMA	an environmental clearance certificate. GN 30 provides the regulations governing the	of the listed activities hence this EIA study.
(2012)	environmental assessment (EA) process.	
Environmental	The Policy seeks to ensure that the environmental consequences of development	This EA should consider the term "Environment".
Assessment Policy of	projects and policies are considered, understood and incorporated into the planning	
Namibia (1995)	process, and that the term ENVIRONMENT is broadly interpreted to include	
	biophysical, social, economic, cultural, historical and political components.	
The Occupational	Safety risk is a statistical concept representing the potential of an accident occurring,	The construction and operation of a recreational
Safety and Health Act	owing to unsafe operation and/or environment. In the working context "SAFETY" is	park and accommodation facility should comply
No. 11 of 2007;	regarded as "free from danger" to the health injury and to properties.	with the guidelines outlined.

	Occupational Health is intended at the promotion and maintenance of the highest	
	degree of physical, mental and social wellbeing of workers in all occupations. This is	
	done by ensuring that all work-related hazards are prevented and where they occur,	
	managed.	
Draft Procedures and	Part 1, Stage 8 of the guidelines states that if a proposal is likely to affect people,	The EA should incorporate the aspects outlined
Guidelines for	certain guidelines should be considered by the proponent in the scoping process.	in the guidelines.
conducting EIAs and		
compiling EMPs		
(2008)		
Public Health Act No.	The Act serves to protect the public from nuisance and states that no person shall	The construction and operation of a recreational
36 of 1919	cause a nuisance or shall suffer to exist on any land or premises owned or occupied	park and accommodation facility should adhere to
	by him or of which he is in charge any nuisance or other condition liable to be injurious	this regulation.
	or dangerous to health.	
Namibian Vision 2030	Vision 2030 states that the solitude, silence and natural beauty that many areas in	Care should be taken that the construction and
	Namibia provide are becoming sought after commodities and must be regarded as	operation of a recreational park and
	valuable natural assets.	accommodation facility; do not lead to the
		degradation and destruction of the habitat.
Water Resources	Section 13(1) deals with the prohibition of pollution of underground and surface water	The pollution of water resources should be
Management Act No.	bodies.	avoided at all costs during both the construction
11 of 2013	The Act also provides provision for the control, conservation and use of water for	and operation of a recreational park and
	domestic, agricultural, urban and industrial purposes. In addition, the Act clearly gives	accommodation facility.
		1

	provision that pertain with license or permit that required abstracting and using water	The use of mobile toilets during the construction
	as well as for discharge of effluent.	phase should be properly positioned while
		placement of permanent ablution facilities for the
		'
		recreational park and accommodation facility should
		be far from watercourse to avoid any see page
		into existing water course, or infiltration into soil.
The Ministry of	MET has recently developed a policy on HIV and AIDS. In addition, it has also initiated	The proponent is required to adhere to the
Environment and	a programme aimed at mainstreaming HIV and gender issues into environmental	guidelines provided to manage the aspects of
Tourism (MET) Policy	impact assessments.	HIV/AIDS.
on HIV & AIDS		
Communal Land	Section 36 B. Stipulates the allocation of rights in respect to communal land to anyone	The proponent acquired land from the relevant
Reform Act 5 of 2002	who seek to occupy land for the purposes of providing public services.	traditional authority.
Labour Act No. 11 of		Given the employment opportunities presented
2007		through the construction and operation of a
		recreational park and accommodation facility,
		compliance with the law by contractors and sub-
		contractors is necessary.
Public and	This Act (GG 5740) provides a framework for a structured uniform public and	The construction and operation of a recreational
Environmental Health	environmental health system in Namibia. It covers notification, prevention and control	park and accommodation facility should comply
Act of 2015	of diseases and sexually transmitted infections; maternal, ante-natal and neo-natal	with these legal requirements.
	care; water and food supplies; infant nutrition; waste management; health nuisances;	

	public and environmental health planning and reporting. It repeals the Public Health	
	Act 36 of 1919 (SA GG 979).	
Hazardous	This ordinance gives provision to control the handling of hazardous substance in all	The proponent should comply with this
Substances	circumstances, such as manufacturing, imports and exporting of these to ensure	legislation.
Ordinance No. 14 of	human and environmental safety.	
1974		
Nature Conservation	Chapter 6 provides for legislation regarding the protection of indigenous plants.	Indigenous and protected plants must be
Ordinance No. 4 of		managed within the legal confines.
1975		
Soil Conservation Act	The Act advocates for the prevention and combating of soil erosion; the conservation,	Soils should not be polluted or left un-
6 of 1969 Ministry	Improvement and manner of use of the soil and vegetation; and the protection of water	rehabilitated.
of Agriculture, Water	sources.	
and Forestry		
National Heritage Act	The Act provides for the protection and conservation of places and objects of heritage	Any material of cultural, heritage or
No. 27 of 2004	significance and the registration of such places and objects. Part V Section 46 of the	archaeological importance shall be reported in
	Act prohibits removal, damage, alteration or excavation of heritage sites or remains,	accordance with this act.
	while Section 48 sets out the procedure for application and granting of permits.	
African Convention	Article 9 subsection (h)	Care should be taken to ensure that the
on the Conservation	Article IX subsection (h), on Species and Genetic Diversity is particularly	introduction of alien species does not threaten
of Nature and Natural	noteworthy, stating that signatory states "shall strictly control the international	the natural environment and proper
	and, as far as possible, accidental introductions, in any area, of species which are	management plans should be in place to prevent
		•

Resources (African Union, 2003) Forestry Act 12 of 2001 & Nature Conservation Ordinance 4 of 1975 Pollution Control and Waste Management	not native to that area and endeavor to eradicate those already introduced where the consequences are detrimental to native species or to the environment in general.". Prohibits the removal of protected plants species. The Act further requires any project activity that will result in clearance of certain Forests to obtain a Forest Permit before-hand. The Bill aims to regulate and prevent the discharge of pollutants to air and water as well as providing for general waste management. The Bill will be licensed is charge into watercourses and emissions into the air.	the alien plants from escaping into the natural environment. These regulations should be adhered to for the conservation of vegetation. Species protected under this Act must be conserved as per requirements. All activities shall be conducted within the framework of this Bill
Word's Best Practises	Precautionary Approach Principle This principle is worldwide accepted when there is a lack of sufficient knowledge and information about the possible threats to the environment. Hence if the anticipated impacts are greater, then precautionary approach is applied. In this project, there are no eminent uncertainty however in cases when they arise, this approach should be applied. Polluter Pays Principle	Major construction activities particularly in the area with underground aquifer can be detrimental to the underground water. Therefore, precaution must be taken to avoid the contamination of underground water. In the event of any soil contamination pollution, the proponent must be responsible to clean up the environment.

This principle ensures that proponents takes responsibility of their actions. Hence in
cases of pollution, the proponent bears the full responsibility to clean up the
environment.

6. ROLES & RESPONSIBILITIES

6.1 Environmental Compliance Officer (ECO)

The Ministry of Environment, Forestry and Tourism (MEFT) is the upholder of environmental protection. The Environmental Compliance Officer shall be an appointed Environmental Officer from the Directorate of Environmental Affairs delegated to enforce compliance as per the provision of the EMA. The ECO may carry out inspection at any given time to impose compliance. Based on his/her work schedule, the ECO shall visit the site at any time for environmental inspection and monitoring.

6.2 The Proponent

NTS shall hold the all-encompassing responsibility of environmental management by adequately executing the environmental management plan. Furthermore, it shall be a full responsibility of the **proponent** to execute the following activities.

- Appoint an Environmental Manager;
- Ensures that all workers and contractors are acquainted with the Environmental
 Management Plan (EMP) and induction on safety measures pertaining to construction and
 operation of the training facility are initiated;
- Ensure a safe and healthy working environment;
- Provide workers with appropriate Personal Protective Clothing (PPE);
- Monitor the employees works with regard to safety;
- Ensure good environment performance and compliance;
- Contract an environmental consultants or specialist to carry out environmental audits.

6.3 Environmental Manager

The Environmental Manager shall represent the proponent and should ensure that the daily operations of the project are monitored and employees and contractors are conforming with the EMP. The copy of the EMP shall be available at the site at all time and all the employees must be acquainted with the EMP.

6.4 Employees and Contractors

All stakeholders, particularly employees and contractors must;

Comply and adhere to the EMP;

- Ensuring that all employees have personal protective gears at all time when working;
- Report damaged PPE and request for replacement;
- Adhere to the company rules and policies.

7. DISCIPLINARY ACTION

The EMP is considered as a live and a legally binding document. Therefore, any nonconformity on compliance to the EMP must result in thoughtful disciplinary legal action against the proponent such as;

- Deferment of work;
- Pecuniary consequences.

The punitive deed shall be determined as per the provision of EMA and relevant statutory legal framework. Under Section 27 (4), Any person who contravenes subsection (3) commits an offence and is on conviction liable to a fine not exceeding N\$500 000 or to imprisonment for a period not exceeding 25 years or to both such fine and such imprisonment".

8. THE ENVIRONMENTAL MANAGEMENT PLAN

This EMP should be read together with the EIA of the proposed construction and operation of a recreational park and accommodation facility and closure phase of the proposed development. The following tables details the management actions recommended to contain the potential impacts acknowledged in the scoping-level environmental assessment conducted for this development. These management actions have been organised temporally according to the proposed developments which comprises of Social, Environmental, Safety and Occupational Health related aspects.

SECTION A: STAFF INDUCTION

Table 4: Staff Induction Mitigation Measures

Environmental or Social Aspects	Objective	Proposed Mitigation Measures	Monitoring Indicators	Responsibility
Staff Induction	To ensure that all employees	All employees and contractors must go	Induction minutes and	Proponent representative or
	are conversant with the	through a thorough induction course on	attendance register signed by	Environmental Manager
	requirements of the EMP	all the provisions of the EMP including	each staff member.	
	including environmental	environmental policy and procedures.		
	policy and procedures.	There must be an annual induction		
		course for all the workers.		
		New employees must not start work	Induction report	
		without going through the induction		
		course.		
	Disciplinary	• The proponent must adopt a	Disciplinary meetings and	Proponent representative or
		disciplinary system to discipline staff	actions	Environmental Manager
		for non-conformity, such as not		
		wearing PPE while working onsite		
		etc.		
		Stringent measures must be put in		
		place for any employee found	Disciplinary letters / Warnings	

Environmental or Social Aspects	Objective	Proposed Mitigation Measures	Monitoring Indicators	Responsibility
•		contravening provisions of the EMP,		
		must be granted a warning letter.		
	Availability of the EMP and	Ensure that a copy of the EMP and	Empirical view of the EMP and	Proponent representative or
	Environmental Policy	Environmental Policy Statement	Environmental Policy	Environmental Manager
	Statement at the site for ease	are kept at the site at all time and it	Statement.	
	of reference.	should be readily accessible.		
Communication	To ensure effective	The proponent must develop a	Communication Strategy	Proponent representative or
	communication and improve	communication strategy		Environmental Manager
	environmental management	Correspondences must be in	Letters, e-mail, notices,	
	and awareness.	writing	minutes	
		The contact numbers for the	Display of the Environmental	
		Environmental Manager must be	Manager and emergency	
		available, displayed at key areas at	numbers at key areas of the	
		the site in case of emergencies.	recreational park as well as	
		There must be an assembly point	accommodation facility.	
		for emergency communication.		
		All employees who are in a position		
		to make or take actions that will		
		influence the conservation and		

Environmental or Social Aspects	Objective	Proposed Mitigation Measures	Monitoring Indicators	Responsibility
		management of the environment		
		must be vested with a good		
		knowledge of their respective		
		responsibilities in order to ensure		
		accurate implementation of the		
		EMP, Environmental Policy		
		Statement and Environmental		
		Management System.		

SECTION B: HEALTH AND SAFETY

Table 5: Health and Safety Measures to be implemented

Environmental / Social Aspects	Objective	Construction and Operation Phases Mitigation Measures	Monitoring Indicators	Management Indicators	Responsibility
Health & Safety	Adhere to the Health and	The proponent must	Health and safety	Approved certification of	Proponent representative or
	Safety Regulations,	develop a health and	included and reflected in	completion.	Environmental Manager
	Government Notice	safety plan;	the induction minutes		
	156/1997 (GG 1617).	A compulsory safety			
		induction course must			

Environmental / Social Aspects	Objective	Construction and Operation Phases Mitigation Measures	Monitoring Indicators	Management Indicators	Responsibility
		be given to all employees. • Each employee must be provided with personal protective equipment (PPE) and must be worn at all time during working and when	Visual Inspection	Visual Inspection	
		onsite. • Ensure all employees are inducted on the dangers of the risks associated with working at facility and the available emergency response; • There must be clear		Availability of fire extinguishers on the facility wall and evidence of training (e.g. minutes, training pictures etc). Visible signages	
		health and safety signs at designated area such as, ASSEMBLY AREA,			

Environmental / Social Aspects	Objective	Construction and Operation Phases Mitigation Measures	Monitoring Indicators	Management Indicators	Responsibility
	Objective	Operation Phases Mitigation Measures NO SMOKING "DANGER", "ENTRANCE PROHIBITED" etc. • Employees must NOT be exposed to noise levels above the required -85dB (A) limit over a period of 8 hours. Should the noise level be higher than 85dB, the proponent must implement a hearing	Record of hearing loss	Report of health check ups	
		conservation program such as noise monitoring; Employees must be provided with			

Environmental / Social Aspects	Objective	Construction and Operation Phases Mitigation Measures	Monitoring Indicators	Management Indicators	Responsibility
		appropriate PPE such			
		as industrial earmuffs;			
		Supply safe drinking			
		water.			
		• Ensure adequate,	Clean water	Laboratory analysis report	
		hygienic and user-			
		friendly ablution facilities			
		for all employees at the			
		site and visitors;			
		Inspect ablution facilities	Clean toilets at all time	Clean toilets at all time	
		at the site regularly.			
		Supervisors must			
		undertake an	Proof of Certification		
		occupational health and			
		first aid course.			
Open fires	To prevent veld fire	No open fires may be	Visual Inspection	Visual Inspection	Proponent representative or
		made anywhere at the			Environmental Manager
		site.			
Open fires	To prevent veld fire	 Supervisors must undertake an occupational health and first aid course. No open fires may be made anywhere at the 		Visual Inspection	·

Environmental / Social Aspects	Objective	Construction and Operation Phases Mitigation Measures	Monitoring Indicators	Management Indicators	Responsibility
Road safety			Road signs	Road signs	Proponent representative or Environmental Manager
		falling off the vehicle.			

Environmental / Social Aspects	Objective	Construction and Operation Phases Mitigation Measures	Monitoring Indicators	Management Indicators	Responsibility
		 Limit and control the number of access points to the facility. The road leading to the facility should be properly maintained so as to reduce dust emissions when they are being used by heavy vehicles. 			
Establish and	Improved occupational	Maintain high safety	Accident records	High standards of	Proponent representative or
Maintain an	health and safety at work	standards at the facility		occupational health and	Environmental Manager
Occupational	place	and arrange annual		safety ratings is	
health and Safety		audits by credible		maintained.	
Management		institutions.			
System (SMS)					

SECTION C: POLLUTION CONTROL AND WASTE MANAGEMENT

Table 6: Pollution and Waste Management Mitigation Measures

Environmental / Social	Objectives	Construction and Operation	Monitoring Indicator	Management	Responsibility
Aspect		Phase Mitigation		Indicator	
		Measures			
Vehicle Emissions	Reduce greenhouse gas (GHG) emissions from vehicles / machinery	 All equipment and vehicles must be kept in good working condition and serviced frequently to prevent emission of noxious smoke etc. Switch off engines when vehicle is not operations 	Vehicle service records books Reports of smoke emissions from machinery	Endorsement by the management	Proponent representative or Environmental Manager
Surface and ground water contamination / pollution	To prevent soil and water pollution	Contaminated runoff from the various operational activities should be prevented from entering any surface water bodies.	Service records Visible drip trays		Proponent representative / Environmental Manager

Environmental / Social	Objectives	Construction and Operation	Monitoring Indicator	Management	Responsibility
Aspect		Phase Mitigation		Indicator	
		Measures			
		Ensure that surface water accumulating on-site are channelled and captured to be treated in an appropriate manner before disposal into the environment.	Proper storage with concrete bund surface		
		Disposal of waste from the properties should be properly managed.			
Oil Spillages	To prevent oil spill from tanks and during refuelling	 Oils, lubricants and hydrocarbons must be stored in a proper storage facility with concrete bunds. Or impermeable lined materials. Refuel vehicles at existing filling stations in Outapi. 	Place warming signs	Site inspection and record keeping	Proponent representatives / Environmental Manager

Environmental / Social	Objectives	Construction and Operation	Monitoring Indicator	Management	Responsibility
Aspect		Phase Mitigation		Indicator	
		Measures			
Oil leakage	To prevent fuel	All stationary vehicles and	Visible monitoring		Proponent
	leakages during	machinery must have drip			representatives /
	construction and	trays to collect leakages of			Environmental
	operation of the	oils and lubricant.			Manager
	facility.	Vehicle and machinery to			
		be used during construction			
		and landscaping of the			
		facility must be in good			
		condition and well serviced			
		to avoid leakages of oils			
		and lubricants;			
		Although not anticipated to			
		be significant, oil drops for			
		instance of less than 500ml,			
		if it happens to contaminate			
		the soils must be collected			
		and be treated with			
		bioremediation waste.			

Environmental / Social	Objectives	Construction and Operation	Monitoring Indicator	Management	Responsibility
Aspect		Phase Mitigation		Indicator	
		Measures			
Waste generation	To prevent littering	 The facility shall be kept clean and free of litter and no litter from the site shall be allowed to disperse to surrounding areas. All personnel shall be instructed to dispose of all waste in the proper manner. The facility must have adequate wheelie bins and skip containers for onsite waste disposal. 	Waste bins and skip containers Waste management plan	Waste bins and skip containers Waste management plan	Proponent representatives / Environmental Manager

Environmental / Social	Objectives	Construction and Operation	Monitoring Indicator	Management	Responsibility
Aspect		Phase Mitigation		Indicator	
		Measures			
		Sufficient weather and			
		scavenger-proof bins (with			
		lids, to prevent the escape			
		of litter) shall also be			
		provided, and be easily			
		accessible at all points			
		where wastes are			
		generated.			
		The proponent shall identify			
		and separate materials that			
		can be reused or recycled			
		to minimise waste e.g.			
		metals, packaging and			
		plastics, and provide			
		separate marked bins for			
		these items.			

Environmental / Social	Objectives	Construction and Operation	Monitoring Indicator	Management	Responsibility
Aspect		Phase Mitigation		Indicator	
		Measures			
		No dumping of waste			
		products of any kind in or in			
		close proximity to any			
		surface water bodies.			
		No waste may be burned			
		on site.			
		General waste is to be			
		collected either by the local			
		Municipality or removed by			
		the proponent or by the			
		contractor.			
		• The frequency of			
		collections will be such that			
		waste containment			
		receptacles do not unduly			
		accumulate at the site or			
		overflow.			

Environmental / Social	Objectives	Construction and Operation	Monitoring Indicator	Management	Responsibility
Aspect		Phase Mitigation		Indicator	
		Measures			
		• Ensure that Namibian			
		National Solid Waste			
		Management Strategy of			
		2017 is in place and			
		enforce.			
Dust		A watering truck should be	Dust monitoring	Dust monitoring	Proponent
		used on roads/tracks with			representatives /
		the heaviest vehicle			Environmental
		movement especially			Manager
		during dry and windy			
		conditions. However,			
		appropriate consideration			
		should be given to water			
		restrictions during times of			
		drought.			

Environmental / Social	Objectives	Construction and Operation	Monitoring Indicator	Management	Responsibility
Aspect		Phase Mitigation		Indicator	
		Measures			
		The use of waterless dust			
		suppression means (e.g.			
		lignosulphonate products			
		such as Dustex) should be			
		considered.			
		Dust protection masks			
		should be provided to			
		workers if they complain			
		about dust.			
		During high wind conditions			
		the project manager must			
		make the decision to cease			
		works until the wind has			
		calmed down.			
		During high wind conditions the project manager must make the decision to cease works until the wind has			

SECTION D: ENVIRONMENT

Table 7: Environmental Mitigation Measures to be implemented

Aspect	Objective	Construction and Operation Phase	Monitoring Indicator	Responsibility
		Mitigation Measures		
Biodiversity	Maintain the ecosystem services and protect the fauna and flora.	 No workers should be permitted to disturb, remove or collect any plant or its materials. Pick, uproot, fell or damage any plant materials growing in the area without a permit. Prevent the destruction of protected tree species in the area. The establishment of the facility should incorporate 	Disciplinary records	Proponent representatives / Environmental Manager
		 existing trees. Encourage the planting of indigenous tree species for land scaping purposes. Disciplinary actions must be taken to any person not complying and strict penalties shall be imposed. 	Vegetation management plan	
Illegal harvesting of any plant materials	To prevent illegal harvesting of plant materials and genetic resources.	No worker and contractors are permitted to collect plant materials, wood and veld food, etc. during the construction and operational phase, neither to	Disciplinary records	Proponent representatives / Environmental Manager

Aspect	Objective	Construction and Operation Phase	Monitoring Indicator	Responsibility
		Mitigation Measures		
		harvest any plant materials such as wood without a		
		valid permit.		
		Any illegal harvesting of plant materials should be		
		report to the relevant authority.		
Water Resource	Conservation of water	No pollution or contaminant should be allowed to		Proponent
	resource	enter the water.		representatives /
		A no-go buffer area of at least 30 m should be		Environmental
		allocated to any water bodies in the area.		Manager
		Recycle water and promote the re-use of water.		
		Monitor and control water usage and minimise if		
		possible.		
		Keep record of water consumption, set target and		
		put action plan when targets are exceeded.		
Soil Erosion		Appropriate erosion control structures must be		
		put in place where soil may be prone to erosion.		
		Checks must be carried out at regular intervals to		
		identify areas within the facility where erosion is		

Aspect	Objective	Construction and Operation Phase	Monitoring Indicator	Responsibility
		Mitigation Measures		
		occurring. Appropriate remedial actions are to be undertaken wherever erosion is evident. It is recommended that most the construction and renovation of the facility takes place outside of the rainy season in order to limit potential flooding and the run off of loose soil causing further erosion.		
Alien Invasive	Maintain natural ecosystem	 No alien invasive plant species may be permitted to be planted at the facility. No pets are allowed to stay on the facility. 	Alien invasive species record.	Proponent representatives / Environmental Manager

SECTION E: HERITAGE AND ARCHEOLOGICAL SITES

Table 8: Archaeology and Heritage Mitigation Measures

Environment / Social	Objectives	Construction and Operation Phase Monitoring Indicator	Responsibility
Aspect		Mitigation Measure	
Heritage Resources /	Preserve	 The management should be made aware of the Sighting report/s of 	Proponent
Artefacts	Heritage and	provision of the National Heritage Act regarding heritage resources /	representatives /
	Archaeological	prompt reporting of any archaeological findings.	Environmental Manager
	materials	Immediately inform the Environmental Manager or	
		management, who will inform the NHC.	
		Retain all the artefacts recovered and where	
		feasible; maintain a photographic record, take	
		note of the date, time, location and type of	
		artefacts found in the logbook;	
		Contract an archaeologist in consultation with	
		NHC to survey the area.	
		Avoid construction within 500m from the centre	
		once the area has been surveyed in order to	
		obtain the baseline data, a 2-3 baseline data is	
		recommended.	

SECTION F: SOCIO ECONOMIC

Table 9: Social Economic Mitigation Measures

Environmental / Social Aspects	Objectives			onstruction and Operation Phase tigation Measures	Monitorin	g Indicator		Responsib	ility
Employment	Promote b to the resident	enefits local	•	Adopt a local first policy to ensure that all general work is reserved for local people from Oshondo village and surrounding settlements and villages within the Anamulenge constituency, unless in circumstances where specialised skills are required. Ensure that wellness program includes all the employees. Employ local contractors e.g. SMEs Where possible expand wellness programs to contracted SMEs. Fair compensation and labour practise as per Namibian Labour Laws must be followed.	proportion	of	and	·	representatives /

Environmental / Social Aspects	Objectives	Construction and Operation Phase Mitigation Measures	Monitoring Indicator	Responsibility
Corporate Social Responsibility	Enhance the livelihood of the local communities	With the resources available support appropriate initiatives to improve the community welfare particularly at Oshondo and surrounding villages.	responsibility activities.	
HIV/AIDS	To prevent the spread of HIV/AIDS	Provide HIV/AIDS awareness at induction.	HIV/AIDS awareness campaigns.	
Alcohol and Drug use	Prevent alcohol and drug use	 Ban the use of alcohol and drugs onsite. Teach employees about dangers alcohol and substance abuse. Employees must be screen with the breathalyser on ad hoc basis to avoid intoxicated personnel to entering the facility. 	Drunk / Misbehaving employees Breathalyser report	Proponent representatives / Environmental Manager
Working hours	Adhere to the Labour Act No. 11 of 2007	Operate within the prescribed working days and hours as per the Namibian Labour laws and regulations	Labour unrest / Demonstration	Proponent representatives / Environmental Manager

SECTION G: DECOMISSIONING/CLOSURE

Table 10: Decommissioning/closure Mitigation Measures to be implemented

Aspect	Objective	Construction and Operation Phase	Monitoring Indicator	Responsibility
		Mitigation Measure		
Closure Plan	To ensure and attain	Ensure closure plan is continuous throughout the life	Updated	Proponent
	the	cycle of the project.	decommissioning/closur	representatives /
	decommission/closure targets.	When construction ceased the building rubbers should be stockpiled in a demarcated area and used The building of the guillies found in the area.	e plan.	Environmental Manager
		 rehabilitating of the gullies found in the area. Plant materials should be collected and taken at a designated landfill to decompose. 		
		Collect all relevant information throughout the life cycle of the project to ensure that all environmental risks are quantified and managed properly.		
		Submit the closure plan to the office of the Environmental Commissioner for approval.		
Financial	Enhance	Allocate substantial operational cost in order to attain	Protection and Indemnity	Proponent
provision for the	decommissioning/clos	the EMP objectives by ensuring that potential	(P&I) Insurance Cover.	representatives /
decommissioning	ure and rehabilitation	impacts are managed or monitored.		Environmental Manager

Aspect	Objective	Construction and Operation Phase	Monitoring Indicator	Responsibility
		Mitigation Measure		
/closure of the		Maintain sufficient Protection and Indemnity (P&I)		
facility and		Insurance Cover for the purpose of closure and		
rehabilitation.		rehabilitation liabilities.		
		Reserve adequate funds for specialist assessments		
		in the event that the closure of the facility will be		
		taking place and resources for continuous		
		monitoring.		

9. CONCLUSION AND RECOMMENDATIONS

The proposed establishment and operation of a recreational park as well as accommodation facility had different aspects that were assessed for possible environmental, social and economic impacts. The potential environmental impacts for the proposed establishment and operation of a recreational park and associated facility project will be primarily localised to the proposed site. Most of the negative impacts associated with this development can be reduced to insignificant levels if the mitigation measure detailed in this EMP are properly employed.

All potential impacts were identified, and mitigation measures proposed were provided with high confidence. The closure of the recreational park and accommodation facility at Oshondo village is less likely to take place but there is possibility for the abandonment of the project. The closure plan must be done, in consultation with the community of Oshondo and provides them with an opportunity to develop alternative uses of the facility and use the infrastructure for other economic viable projects. The information provided and mitigation measures recommended for the establishment and operation of the recreational park and accommodation facility are adequate, therefore it is recommended that the Environmental Clearance Certificate shall be issued to necessitate the construction and ultimately the operation of the facility to commence. Nevertheless, with continuous alteration of the environment, regular monitoring must be put in place, therefore, the proponent must appoint a Consulting Engineer and an Environmental Consultant to continuously oversee and supervise the engineering works as well as conducting environmental audits and prepare reports for submission to the office of Environmental Commissioner.