

ENVIRONMENTAL MANAGEMENT PLAN (EMP) FOR ACTIVITIES ASSOCIATED WITH THE VAMUMWA REST CAMP AND RECREATIONAL PARK, LOCATED APPROXIMATELY 2 KM FROM OUTAPI TOWN, IN OHAMUYALA VILLAGE, OMUSATI REGION, NAMIBIA.

SEPTEMBER 2020

**Prepared for:**

Vamumwa Rest Camp and Recreational Park

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### EXPERTISE AND DECLARATION OF INDEPENDENCE

I.N.K Enviro Consultants cc is the independent firm of consultants that has been appointed by The Vamumwa Recreation Park to undertake the environmental management plan.

Immanuel N. Katali, the EIA Lead Practitioner holds a B.Arts (Honors) in Geography, Environmental Studies and Sociology and has over 5 years of experience in conducting Environmental Impact Assessments in Namibia.

The consultant herewith declare that this report represents an independent, objective assessment of the environmental impacts and its management/mitigation measures associated with the activities and potential impacts of the Vamumwa Recreational Park.

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## LIST OF ACRONYMS, ABBREVIATIONS AND UNITS

DEA	Department of Environmental Affairs
ECC	Environmental Clearance Certificate
EIA	Environmental Impact Assessment
EMA	Environmental Management Act
EMP	Environmental Management Plan
I.N.K	I.N.K Enviro Consultants cc
M <sup>2</sup>	Meter Squares
MET	Ministry of Environment and Tourism

## 1 INTRODUCTION

### 1.1 Purpose of the EMP Report

This Environmental Management Programme (EMP) provides an overarching framework for the management and regulation of all activities associated to the Vamumwa Rest Camp and Recreational Park. The primary aim of this EMP is the sustainable utilisation of a natural asset with an emphasis on environmental management in the Park. The EMP specifically aims to:

- identify and mitigate the potential environmental impacts associated with the activities within the Park;
- identify and mitigate the potential environmental impacts towards the Park visitors;
- develop guidelines and an associated code of conduct for Park visitors;
- develop a coordinated uniform approach to, and activities required for, the implementation, monitoring and enforcement of this EMP; and
- identify the roles and responsibilities of Vamumwa Rest Camp and Recreational Park and other stakeholders in the implementation and enforcement of the EMP.

Environmental Impact Assessments are regulated by the Ministry of Environment, Forestry and Tourism (MET) in terms of the Environmental Management Act, 7 of 2007. This Act was gazetted on 27 December 2007 (Government Gazette No. 3966) and enacted on 6 February 2012. The Environmental Impact Assessment Regulations: Environmental Management Act, 2007 (Government Gazette No. 4878) were promulgated on 6 February 2012.

### 1.2 Background to the Vamumwa Rest Camp and Recreational Park

The Vamumwa Rest Camp and Recreational Park (hereinafter referred to as Vamumwa), intends on obtaining an Environmental Clearance Certificate (ECC) for their recreational park and associated activities. The park is located 2 km out of Outapi Town, in Ohamuyala village, along the Outapi-Ruacana main road. The park provides a wide range of recreational activities for the local, regional and national community.

The park, measuring approximately 6.9 hectares (ha), was constructed in 2017 and started its operations in November 2019, on a communal designated land on the outskirts of Outapi town (refer to Figure 1). Therefore, this EMP is only focused on the operational activities of the project.

The activities include the following:

- Go-kart track;

- Kiddies Playground;
- 6 barbecue spots;
- Restaurant (under construction)
- Bar
- Traditional area;
- 2 swimming pools;
- Fish pond;
- Poultry farm;
- VIP Section;
- Camp site;
- Accommodation (Rooms);
- Rabbit Farm;
- Agricultural Plantation;
- Ostriches

As part of the operation activities, an Environmental Clearance Certificate (ECC) is required on the basis of an approved Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP). It is with this background that, I.N.K Enviro Consultants cc (I.N.K) an independent firm of consultants, was appointed to compile an EMP for Vamumwa.



Figure 1: Vamumwa Site Area Map

### 1.3 Motivation (Needs and Desirability)

Vamumwa is in the process of applying for lease hold at the Ministry of Agriculture, Water and Land Reform (MAWLR). As part of the requirements by the MAWLR, Vamumwa is expected to attach an ECC to the lease hold application, hence this report.

In addition, Vamumwa is in the process of ensuring that all the required legal permits and certificates for their operations are in place. Therefore, Vamumwa intends on obtaining an Environmental Clearance Certificate from the Ministry of Environment, Forestry and Tourism, which would provide an environmental clearance to run their operations through the implementation of appropriate management and mitigation measures.

#### 1.4 Details of the persons who compiled this EMP

I.N.K Enviro Consultants cc is the independent firm of consultants that has been appointed by Vamumwa to compile the EMP.

Immanuel N. Katali, the EIA project manager and lead practitioner holds a B.Arts (Honours) Degree in Geography, Environmental Studies and Sociology and has over five years of relevant experience in conducting/managing EIAs, compiling EMPs and Socio-Economic Studies. Immanuel is certified as an environmental practitioner under the Environmental Assessment Professionals Association of Namibia (EAPAN).





## 2 LEGAL FRAMEWORK

The Republic of Namibia has five tiers of law and several policies relevant to environmental assessment and protection, which includes:

- The Constitution
- Statutory law
- Common law
- Customary law
- International law

Key policies currently in force include:

- The EIA Policy (1995).
- Namibia's Environmental Assessment Policy for Sustainable Development and Environmental Conservation (1994).

As the main source of legislation, the Constitution of the Republic of Namibia (1990) makes provision for the creation and enforcement of applicable legislation. In this context and in accordance with its constitution, Namibia has passed numerous laws intended to protect the natural environment and mitigate against adverse environmental impacts.

### 2.1 Applicable Laws and Policies

In the context of the proposed irrigation project, there are several laws and policies currently applicable. They are reflected in Table 1 below.

**Table 1: Relevant Legislation and Policies**

YEAR	NAME	Natural Resource Use (energy & water)	Emissions to air (fumes, dust & odours)	Emissions to land (non-hazardous & hazardous)	Emissions to water (industrial & domestic)	Noise	Visual	Impact on Land use	Impact on biodiversity	Impact on Archaeology	Socio-economic	Safety & Health
1990	The Constitution of the Republic of Namibia of 1990	X	X	X	X	X	X	X	X	X	X	X
2007	Environmental Management, Act 7 of 2007	X	X	X	X	X	X	X	X	X	X	X
2012	Regulations promulgated in terms of the Environmental Management, Act 7 of 2007	X	X	X	X	X	X	X	X	X	X	X
1976	Atmospheric Pollution Prevention		X	X					X		X	X

	Ordinance 11 of 1976											
1995	Namibia's Environmental Assessment Policy for Sustainable Development and Environmental Conservation	X	X	X	X	X	X	X	X	X		X
2003	Agricultural (Commercial) Land Reform Amendment Act										X	

### 3 ENVIRONMENTAL ACTION PLANS

The management measures proposed to mitigate the potential impacts relating to the operation phase are detailed in the action plans below.

#### 3.1 Action plans to achieve objectives and goals

Action plans to achieve relevant objectives/goals are listed in tabular format together with timeframes for each action. The action plans include the timeframes and frequency for implementing the mitigation measures as well as identifying the responsible party.

**Table 2: Action Plan – Hydrocarbon and Associated Spills Management**

Objective:

The objective of the mitigation measures is to handle and store hydrocarbons in such a way as to prevent spills. Where spills do occur, to ensure the spill is contained and the contamination cleaned-up and contaminated material disposed of responsibly.

Activities / facilities	Management and mitigation measures	Action plan	
		Frequency / target date	Responsible parties
Machinery, quad bikes, go-karts, generators and equipment	<ul style="list-style-type: none"> <li>Establish and maintain impermeable bunded / drip trays around machinery, generators and equipment.</li> <li>Machinery and equipment shall be kept in good working condition to ensure they do not leak oil/diesel.</li> <li>In the event where machinery needs to be repaired/serviced on site, all care shall be taken to prevent spillage of oil/diesel by performing the work on impermeable surfaces or proper placement of drip trays.</li> <li>All used parts machinery (which may include, but not limited to, oil filter, pipes, rags, cans) will be collected and removed from site and disposed of in an appropriate manner.</li> <li>Regular environmental awareness should include potential risks associated with hydrocarbons.</li> </ul>	Throughout the operations	Park Supervisor

Storage of hydrocarbons	<ul style="list-style-type: none"> <li>The hydrocarbons shall only be stored in original containers being undamaged and sealed.</li> <li>Damaged containers, etc. of hydrocarbons shall be sealed/repared immediately with appropriate material.</li> <li>Broken/damaged bags must be correctly handled &amp; repaired to avoid contamination of the road and other third parties' facilities when transported to the Kupferberg Waste site.</li> </ul>	Throughout the operations	Park Supervisor
General (spills)	<ul style="list-style-type: none"> <li>Any spills will be contained and cleaned up immediately.</li> <li>Spill kits will be readily available on site. Employees and/or contractors will be shown how to use the spill kits to enable containment and remediation of pollution incidents.</li> <li>The contractor will establish environmental awareness to employees.</li> </ul>	Throughout the operations	Park Supervisor

**Table 3: Action Plan – Waste management**

Objective:

The objective of the management measures is to ensure proper storage, removal, transportation and disposal/recycling of hazardous and non-hazardous (i.e. domestic) waste.

Activities / facilities	Technical and management options	Action plan	
		Frequency / target date	Responsible parties
General	Waste shall be separated and recycled / re-used where possible.	Throughout the operations	Park Supervisor
	No burning of waste material will be allowed in the park.	Throughout the operations	Park Supervisor

	<ul style="list-style-type: none"> <li>Contractors and employees will be shown the importance of correct waste disposal as well as waste minimisation and recycling.</li> </ul>	Throughout the operations	Park Supervisor
Collection and storage of waste	<ul style="list-style-type: none"> <li>Suitable receptacles with lids for waste disposal will be required at the Park.</li> <li>Ensure animals do not have access to waste bins. All food scraps need to be removed from the Park on a weekly basis.</li> <li>If rubbish containers are used, ensure these can be sealed from strong wind and sealed during transport.</li> <li>Provision will be made to contain and promptly clean up any litter</li> </ul>	Throughout the operations	Park Supervisor
Disposal of non-hazardous (domestic) waste	<ul style="list-style-type: none"> <li>Waste shall be transported to the nearest licensed Outapi Landfill site on a weekly basis. No disposal of waste in the park and no burning of waste.</li> </ul>	Throughout the operations	Park Supervisor
Disposal Hazardous Waste	<ul style="list-style-type: none"> <li>Hazardous Waste (if any) will be disposed off at the nearest licensed Hazardous Waste Disposal Facility.</li> </ul>	Throughout the operations	Park Supervisor
Medical waste from First Aid Kit	<ul style="list-style-type: none"> <li>Medical waste (if any) where appropriate shall be disposed of at the medical waste facility.</li> </ul>	Throughout the operations	Park Supervisor
Disposal records (domestic and industrial)	<ul style="list-style-type: none"> <li>Written evidence of safe disposal of waste will be kept.</li> </ul>	Throughout the operations	Park Supervisor

**Table 4: Action Plan - Visual Impacts**

Objective:

The objective of the mitigation measures is to avoid (as far as possible) visual impacts to travellers and nearby communities.

Activities / facilities	Technical and management options	Action plan	
		Frequency / target date	Responsible parties
Vamumwa Rest Camp and Recreational Park	Ensure that the operations and facilities are well maintained and kept in good order.	Throughout the operations	Park Supervisor

**Table 5: Action Plan – Air & Noise Pollution**

**Objective:**

The objective of the mitigation measures is to prevent negative air pollution impacts emitted from the Park.

Activities / facilities	Technical and management options	Action plan	
		Frequency / target date	Responsible parties
Emission of Dust as a health risk	<ul style="list-style-type: none"> <li>• Ensure water is regularly sprinkled in areas in the park that emit dust</li> <li>• Don't plough if the soil is dry and there are high winds.</li> <li>• Wet soils before ploughing.</li> <li>• Cover piles of fertilizer, compost, or soil.</li> </ul>	Throughout the operations	Park Supervisor
Noise Generated	<ul style="list-style-type: none"> <li>• Regular consultation with the neighbouring community should be done to inform them about</li> </ul>	Throughout the operations	Park Supervisor

	the park activities that could potentially cause noise pollution.		
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**Table 6: Action Plan – Social Issues & Training**

**Objective:**

The objective of the mitigation measures is to prevent negative social impacts associated with the workforce.

Activities / facilities	Technical and management options	Action plan	
		Frequency / target date	Responsible parties
Employees - social issues	<ul style="list-style-type: none"> <li>• Have zero tolerance for employees with regards to alcohol in the workplace.</li> <li>• A First Aid Kit should be available at all times.</li> </ul>	Throughout the operations	Park Supervisor
Training & Awareness	All individuals who work at the park should be aware of the contents of the EMP.	Throughout the operations	Park Supervisor
Socio-Economic	<ul style="list-style-type: none"> <li>• The management and mitigation measures in the preceding sections of this report will be implemented in order to manage this risk. The community should not suffer negatively in any way due to the park operations. Regular consultations with neighbouring community should always be maintained.</li> <li>• All complaints received will be viewed as opportunities for improvement and addressed in a positive and cooperative manner.</li> </ul>	Throughout the operations	Supervisor



**Table 7: Action Plan – Economic, Job Creation and Skills Development**

**Objective:**

The objective of the mitigation measures is to enhance positive economic impacts.

Activities / facilities	Technical and management options	Action plan	
		Frequency / target date	Responsible parties
Recruitment	<ul style="list-style-type: none"> <li>• Have approachable person as she/he will be a key link between the community in the area and the park.</li> <li>• Demonstrate its efforts to recruit employees from Outapi and Omusati Region.</li> <li>• Be gender sensitive and select women for interview, training and recruitment.</li> </ul>	Throughout the operations	Park Supervisor

**Table 8: Action Plan – Biodiversity**

**Objective:**

The objective of the mitigation measures is to minimise impacts associated with biodiversity.

Activities / facilities	Technical and management options	Action plan	
		Frequency / target date	Responsible parties
Protection of trees	The park management should at all times minimize the cutting down of any trees within the park.	Throughout the operations	Park Supervisor
Poultry Farming	Sheds, equipment, management systems and farm practices will comply with the Code of Accepted Farming Practice for Welfare of Poultry	Throughout the operations	Park Supervisor

Agricultural Plantation	All handling of fertilizers and chemicals will be done in accordance with EURO GAP	Throughout the operations	Park Supervisor
Agricultural Plantation	The commitment to best environmental practice in the use of chemicals in agriculture should be an explicit statement in the company's higher-level commitments.	Throughout the operations	Park Supervisor
All animals	Monitor the occurrence of tracks of animals around the boundary fence, with particular attention being paid to evidence of the interruption of linear movements.	Throughout the operations	Park Supervisor
Agricultural Plantation	Optimise the total size of the irrigation area by carefully considering the realistic productive capacity of the soils (use only the area that is needed to produce the target production).	Throughout the operations	Park Supervisor

**Table 9: Action Plan – Code of Conduct**

**Objective:**

The objective of the mitigation measures is to ensure compliance to park rules etc.

Activities / facilities	Technical and management options	Action plan	
		Frequency / target date	Responsible parties
Park Visitors	<p>Ensure compliance with Park rules, regulations and the EMP;</p> <ul style="list-style-type: none"> <li>• Inculcate courtesy and consideration towards other Park users and visitors;</li> <li>• Self-policing; and</li> <li>• Develop a respect for, and reduce the impacts on the globally and nationally unique natural and cultural resources of the Park.</li> </ul>	Throughout the operations	Park Supervisor

Park Visitors	Visitors must remain on approved, designated at all times, except in the event of an emergency	Throughout operations	the	Park Supervisor
Park Visitors	Routes that have been temporarily or permanently closed must not be used.	Throughout operations	the	Supervisor
Park Visitors	Visitors must not disturb animals.	Throughout operations	the	Park Supervisor
Park Visitors	Visitors must yield / give way to all vehicles.	Throughout operations	the	Park Supervisor
Park Visitors	Visiting regulations must be adhered to.	Throughout operations	the	Park Supervisor
Park Visitors	Visitors should ensure that they have the relevant emergency telephone numbers on their mobile phones.	Throughout operations	the	Park Supervisor

**Table 10: Action Plan – Groundwater and Surface Water**

**Objective:**

The objective of the mitigation measures is to minimise potential water impacts.

Activities / facilities	Technical and management options	Action plan		
		Frequency / target date		Responsible parties
Recreational Park site	If necessary, implemented stormwater control measures that prevent water from pooling on site.	Throughout operations	the	Park Supervisor
Recreational Park site	Storm water management, construction of infrastructure to contain contact and waters.	Throughout operations	the	Park Supervisor
Agricultural Plantation	Have proper storage of chemicals and fertilisers on site in order to prevent spillages and associated groundwater contamination.	Throughout operations	the	Park Supervisor

**Table 11: Action Plan – Archaeology/Heritage**

**Objective:**

The objective of the mitigation measures is to minimise potential impacts to archaeology.

Activities / facilities	Technical and management options	Action plan	
		Frequency / target date	Responsible parties
Archaeology discoveries	<p>In the event that archaeological resources are discovered, a chance find emergency procedure will be implemented which includes the following:</p> <ul style="list-style-type: none"> <li>• All work at the find will be stopped to prevent damage;</li> <li>• An appropriate heritage specialist will be appointed to assess the find and related impacts; and</li> <li>• Permitting applications will be made to the necessary authorities, if required.</li> </ul>	Throughout the operations	Park Supervisor

## 4 PARTIES RESPONSIBLE FOR THE IMPLEMENTATION OF THE EMP

This section describes the roles and responsibilities for implementing the different parts of the environmental management plan (EMP).

### 4.1 Supervisor

The Supervisor has overall responsibility for environmental management and safety during the operation process of the waste car battery recycling facility and shall oversee the implementation of the EMP.

The Supervisor's responsibilities relating to compliance with this EMP:

- Regular inspections of compliance to this EMP and any other relevant legal requirements.
- Regular correspondence with the DEA on environmental issues and incidents.
- Conduct environmental awareness training during induction training and on an ad hoc basis thereafter to all workers.
- Ensure compliance to all park rules
- Ensure that staff is controlled through the implementation of appropriate security measures.
- Carefully manage the handling of hydrocarbons and other hazardous materials.
- Monitor for excessive dust and noise levels and implement control measures if necessary.
- Report incidences to the DEA.
- Implement a waste management strategy.
- Monitoring and maintenance of equipment and machinery.
- Implement an environmental awareness plan.
- Implementation of first-aid procedures.

## 5 TRAINING AND AWARENESS

The purpose of the job specific environmental awareness training is to ensure that employees/all staff are equipped to implement the actions committed to in the EMP. The staff involved in operations will receive training regarding the requirements of this EMP.

Four main forms of training will be provided on the premises:

- Park induction

- Environmental management training – general and targeted

The training will generally be prepared by the Supervisor (or the Environmental Representative).

The following will be done to ensure all employees, contractors, suppliers and visitors receive the appropriate training/awareness:

### 5.1 Environmental Park Induction

All new members of staff receive a corporate Environmental Induction along with the obligatory Health & Safety induction. The induction gives a general overview of the environmental challenges faced by the project, how we are managing them, and general tips for reducing our impact in the workplace.

The main reason for environmental induction is to encourage new staff to be environmentally aware right from the beginning of their employment. This will ensure that environmental initiatives are successful by eliminating bad habits from the start.

Before working at the Park, all personnel and sub-contractors will undertake a Park induction incorporating environmental requirements. The induction will address a range of environmental awareness issues specific to the construction process of the project.

As a minimum, training shall include:

- Explanation on the importance of complying with the EMP and environmental implications should the EMP not be effectively implemented.
- Explanation of the Park rules.
- Discussion of the potential environmental impacts of activities, recognition of environmental risks and how to control these risks.
- The benefits of improved personal performance, understanding of what to do in case of an environmental event or exposure.
- Employees' roles and responsibilities, including emergency preparedness.
- Explanation of the mitigation measures that must be implemented when carrying out operational activities.
- Explanation of the requirements of the EMP and its specification.
- Explanation of the management structure of individuals responsible for matters pertaining to the EMP.

## 5.2 Environmental Awareness training

Targeted environmental management training will be provided to individuals or groups of workers with a specific authority or responsibility for environmental management or those undertaking an activity with a high risk of environmental impact. This environmental training will aim to achieve a level of awareness and competence appropriate to their assigned activities. This training will take place at the beginning of operations.



## Appendix A: CV of Environmental Assessment Practitioner

### 1. Personal Details

Gender	Male
Marital Status	Single
Date of Birth	12 April 1991
Nationality	Namibian
Profession	Environmental Assessment Practitioner & Socio-Economic Specialist
Driver's License	Code B
Postal Address	31908, Pionierspark, Windhoek, Namibia
Residential Address	Erf 333, Trumpet Street, Grysblock, Windhoek
E-mail Address	immanuelkatali@gmail.com
Contact Numbers	(+264 818035825) (+264 811258284)

### 2. Professional Profile

Immanuel is an Environmental Assessment Practitioner and Socio-Economic Specialist with ±6 years of experience in Environmental and Social Consulting. He is very passionate about maintaining the balance between economic developments and maintaining the environment. He has experience in conducting Environmental Impact Assessments (EIAs), compilation of Environmental Management Plans (EMPs), environmental compliance monitoring on sites, facilitating EIA public meetings (engagement) as well as adding input to EIA Reports as a Socio-Economic Specialist. He also has very good Project and Staff Management skills.

### 3. Language Proficiency

Language	Speak	Write	Read
English	Excellent	Excellent	Excellent
Oshiwambo	Excellent (Mother Tongue)	Excellent	Excellent
Afrikaans	Good	Good	Good



#### 4. Primary Education

- Ongwediva Control Primary School (1998-2000)
- Emma Hoogenhout Primary School (2000-2004)

#### 5. Secondary Education

- Jan Mohr Secondary School (2005-2009)

#### 6. Tertiary Education

University	Year	Qualification Obtained	Major Modules
University of Namibia	2010-2014	B. Arts (Hons) Geography, Environmental Studies and Sociology	<ul style="list-style-type: none"> <li>➤ Environmental Management &amp; Governance</li> <li>➤ Environmental Studies</li> <li>➤ Climatology</li> <li>➤ Sociology of the Environment</li> <li>➤ Contemporary Social Issues</li> <li>➤ Social Geography</li> <li>➤ Social Demography</li> <li>➤ Rural Sociology</li> </ul>

#### 7. Employment Record

Since starting his professional career about 6 years ago, Immanuel has been involved in numerous, Environmental Impact Assessment projects and Socio-Economic Impact Assessments focusing on the potential social and economic impacts on the local and regional communities as a result of a proposed project. The specific environmental project responsibilities range from proposal writing, technical report compilation, environmental assessment public meeting facilitation, liaising with specialists, site visits (fieldwork) & supervision, environmental compliance monitoring on sites and project management. The projects have been based in different regions in Namibia.

##### 7.1

Year	Company	Position
12 January 2015 – 31 September 2016	Risk-Based Solutions cc	Environmental and Social Consultant

### Job Duties

Project assistance in conducting:

- Environmental Impact Assessment (EIA)
- Environmental Management Plans (EMP)
- Site Visits
- Socio-Economic Impact Assessments
- Environmental and Social Support Services
- Public Consultation Meetings

### 7.2

Year	Company	Position
01 November 2016 – 31 August 2018	SLR Environmental Consulting (Pty) Ltd	Environmental Assessment Practitioner and Socio-economic Specialist

### Job Duties

- Project Management
- Environmental Impact Assessment (EIA)
- Environmental Management Plans (EMP)
- Liaise with Specialists
- Public Consultation Meetings
- Socio-Economic Impact Assessments
- Environmental Compliance Monitoring
- Environmental and Social Support Services
- Write Proposals

### 7.3

Year	Company	Position
01 October - Present	I.N.K Enviro Consultants cc	Self-employed

### Job Duties

- Project Management

- Environmental Impact Assessment (EIA)
- Environmental Management Plans (EMP)
- Liaise with Specialists
- Public Consultation Meetings
- Socio-Economic Impact Assessments
- Environmental Compliance Monitoring
- Environmental and Social Support Services
- Write Proposals

## 8. Key Projects

Project	Company	Role	Description
EIA for Acrep proposed oil and gas onshore exploration in Nkurenkuru (2015)	Risk- Based Soltuions cc	Project Assistance	Providing project assistance for the Environmental Impact Assessment (EIA) to evaluate or identify the positive and negative impacts associated with significant environmental effects as a result of the proposed project.
EIA for InnoSun's Proposed Wind Power Project in Luderitz (2015)	Risk- Based Soltuions cc	Project Assistance	Providing project assistance for the Environmental Impact Assessment (EIA) to evaluate or identify the positive and negative impacts associated with significant environmental effects as a result of the proposed project.
EIA for Impact's Proposed Oil and Gas Offshore exploration in Luderitz (2015)	Risk- Based Soltuions cc	Project Assistance	Providing project assistance for the Environmental Impact Assessment (EIA) to evaluate or identify the positive and negative impacts associated with significant environmental effects as a result of the proposed project.
Proposed 270-ton Sea Cucumber Farm in Walvis Bay (2015)	Risk- Based Soltuions cc	Project Assistance	Providing project assistance for the Environmental Impact Assessment (EIA) to evaluate or identify the positive and negative impacts associated with significant environmental effects as a result of the proposed project.

Project	Company	Role	Description
HopSol Power Generation (PTY) LTD Proposed Outjo 3MWac Solar PV Park (2015).	Risk- Based Soltuions cc	Project Assistance	Providing project assistance for the Environmental Impact Assessment (EIA) to evaluate or identify the positive and negative impacts associated with significant environmental effects as a result of the proposed project.
Oshikoto Power (PTY) LTD Proposed Tsumeb 5MWac Solar Pv Park(2015).	Risk- Based Soltuions cc	Project Assistance	Providing project assistance for the Environmental Impact Assessment (EIA) to evaluate or identify the positive and negative impacts associated with significant environmental effects as a result of the proposed project.
EIA for Meatco feedlot in Kombat Town (2016).	SLR Environmental Consulting (Pty) Ltd	Environmental Assessment Practitioner	Environmental Impact Assessment (EIA) to identify, evaluate and mitigate the potential impacts associated with significant environmental effects as a result of the proposed project.
Swakop Uranium Husab Mine Bi-annual report ( 2016).	SLR Environmental Consulting (Pty) Ltd	Co-Author	An investigation on the environmental issues and aspects that were implemented and recorded over a period of 6 months for the Husab Mine.
Environmental and Social Impact Assessment for NamPower's proposed Biomass Power Plant in Tsumeb (2017).	SLR Environmental Consulting (Pty) Ltd	Environmental Assessment Practitioner  Socio Economic Specialist	Environmental Impact Assessment (EIA) to identify, evaluate and mitigate the potential impacts associated with significant environmental effects as a result of the proposed project  Socio-economic aspect involves an assessment of the potential social and economic impacts on the local and regional communities as a result of the proposed Biomass Power Plant. It involves a study of the less privileged communities within a 100 km radius from Tsumeb and developing measures to ensure that these communities benefit from the proposed biomass power plant.

Project	Company	Role	Description
Environmental Impact Assessment for the proposed Kombat Open-Pit Mine (2017)	SLR Environmental Consulting (Pty) Ltd	Environmental Assessment Practitioner  Socio Economic Specialist	Environmental Impact Assessment (EIA) to identify, evaluate and mitigate the potential impacts associated with significant environmental effects as a result of the proposed project.  An assessment of the potential social and economic impacts on the local and regional communities as a result of the proposed Kombat mining operations. It involves an in-depth investigation on the neighboring communities (specifically the less privileged) and developing measures to ensure employment opportunities for the workers, any relocation measures are well implemented and provision for standard living conditions for the workers. Furthermore, the objective was to ensure that these communities benefit and are less affected from the proposed activities.
Environmental Screening for the proposed Cobalt Copper Mine in Opuwo (2018)	SLR Environmental Consulting (Pty) Ltd	Socio-Economic Specialist	An investigation of the potential social and economic impacts on the local and regional Himba communities as a result of the proposed Cobalt-Copper Mine. It involves a study of the less privileged Himba communities and developing measures to ensure that these communities benefit from the proposed Cobalt-Copper Mine.
Environmental Impact Assessment for the proposed Zone Irrigation Scheme in Nkurenkuru (2018)	SLR Environmental Consulting (Pty) Ltd	Environmental Assessment Practitioner	Environmental Impact Assessment (EIA) to identify, evaluate and mitigate the potential impacts associated with significant environmental effects as a result of the proposed project.

Project	Company	Role	Description
Environmental Impact Assessment for NamParks proposed Channel Crossings in the Nkasa Rupara National Park (2018)	SLR Environmental Consulting (Pty) Ltd	Environmental Assessment Practitioner	Environmental Impact Assessment (EIA) to identify, evaluate and mitigate the potential impacts associated with significant environmental effects as a result of the proposed project.
Environmental Impact Assessment for Galore Trading's EIA for the proposed Irrigation activities (2019-ongoing)	I.N.K Enviro Consultants cc	Environmental Assessment Practitioner	Environmental Impact Assessment (EIA) to identify, evaluate and mitigate the potential impacts associated with significant environmental effects as a result of the proposed project.
Socio-Economic Impact Assessment for Gecko's proposed Opuwo Cobalt-Copper Mine in Opuwo (2019)	I.N.K Enviro Consultants cc	Socio-Economic Specialist	An investigation of the potential social and economic impacts on the local and regional Himba communities as a result of the proposed Cobalt-Copper Mine. It involves a study of the less privileged Himba communities and developing measures to ensure that these communities benefit from the proposed Cobalt-Copper Mine.
Socio-Economic Impact Assessment for Tulela's proposed Mining Activities on Sinclair Mine (2019).	I.N.K Enviro Consultants cc	Socio-Economic Specialist	An assessment of the potential social and economic impacts on the local and regional communities as a result of the proposed sinclair mining operations. It involves an in-depth investigation on the neighboring communities and developing measures to ensure employment opportunities for the workers, any relocation measures are well implemented and provision for standard living conditions for the workers. Furthermore, the objective was to ensure that these communities benefit and are less affected from the proposed activities.

Project	Company	Role	Description
Environmental Compliance Audit Report for Manica's Chemical Storage Facilities (2020)	I.N.K Enviro Consultants cc	Environmental Compliance Officer	I.N.K Enviro Consultants cc was appointed by Manica Group Namiba (Pty) Ltd (Manica) to conduct an independent environmental compliance audit as part of the ECC Renewal Application Process and in line with the 2016 approved Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP).
Environmental Impact Assessment for Right-Path Investment's Battery Recycling Facility in Okahandja (2020-ongoing)	I.N.K Enviro Consultants cc	Environmental Assessment Practitioner	Environmental Impact Assessment (EIA) to identify, evaluate and mitigate the potential impacts associated with significant environmental effects as a result of the proposed project.

### 9. Computer Skills

- Microsoft Word
- Microsoft PowerPoint
- Microsoft Excel
- Microsoft Outlook
- Microsoft Office Manager

## 10. References

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### Certification:

I, the undersigned, certify that to the best of my knowledge and belief, these data correctly describe me, my qualifications, and experience.

**Date: 13 September 2020**



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Signature



