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ENVIRONMENTAL MANAGEMENT PLAN

DRIEFONTEIN SAFARI LODGE, KUNENE REGION

PREPARED FOR



JUNE 2020



TITLE AND APPROVAL PAGE

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DEFINITIONS AND ABBREVIATIONS

ECC	Environmental Compliance Consultancy
EIA	Environmental Impact Assessment
EMA	Environmental Management Act
EMP	Environmental Management Plan
MEFT	Ministry of Environment, Forestry and Tourism
PM	Project Manager
MSDS	Material Safety Data Sheet
PPE	Personal Protective Equipment



1 INTRODUCTION

1.1 PROJECT BACKGROUND

Environmental Compliance Consultancy (ECC) has compiled this Environmental Management Plan (EMP) in terms of the Environmental Management Act, No. 7 of 2007 and its regulations on behalf of Driefontein Safari Lodge (Pty) Ltd (herein referred to as the proponent).

Nuvella Managerial and Marketing Services is a developer of numerous prestigious projects in Namibia, have worked on a number of hospitality projects and have developed and delivered multiple award winning facilities. Nuvella will continue to manage the project up to date of completion when the operation will be taken over and managed by Namibia Collection Management and Marketing (Pty) Ltd.

The proponent proposes to undertake construction activities for the development of Driefontein Safari Lodge in the Torra Conservancy, Kunene Region. The proposed development comprises of a 30-room luxury lodge, tented camp and camping site on the area. The area has significant sustainable tourism potential, which will expose tourists to the cultural experience in northwest Namibia. The proposed development will also generate income for the local community and open-up future business frontiers. Agreements have been signed, finances are in place and contractors have been appointed for the lodge construction. The newly formed venture is designed to further spread financial, social and environmental benefits that ecotourism can bring to local communities.

The proposed development, Driefontein Safari Lodge, is located approximately a 100 km west of Khorixas and approximately 15 km southwest of Bergsig settlement within the Torra Conservancy, Kunene region, in the northwest of Namibia. The site can be accessed by tracks from the C39 and M126 main roads (Figure 1).



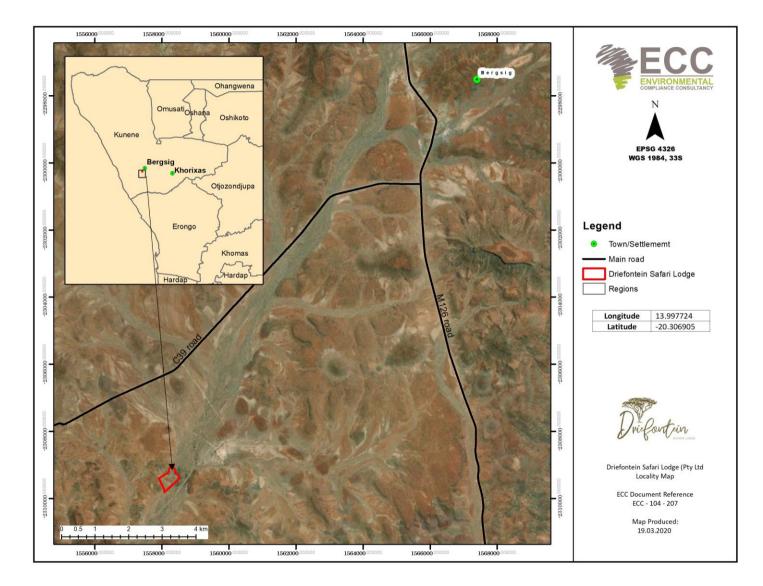


FIGURE 1 - LOCALITY MAP OF DRIEFONTEIN SAFARI LODGE

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1.2 ENVIRONMENTAL REGULATORY REQUIREMENTS

In terms of the Environmental Impact Assessment (EIA) Regulations and the Environmental Management Act, No. 7 of 2007, the proposed development qualifies as a listed activity. Therefore, an application for an environmental clearance certificate is to be submitted. An environmental scoping report and EMP are required to be submitted as part of the application process, as well as to support the decision-making process. This report presents the EMP and has been undertaken in terms of the requirements of the act and its regulations.

1.3 THE PROPONENT OF THE PROPOSED PROJECT

Driefontein Lodge (Pty) Ltd is an entity that has been established by the shareholders Otium Holdings (Pty) Ltd, Orehe Dage Investments CC, and Mr Waldheim Shiluwa, with the concessionaire and a management agreement with Namibia Collection. Christophe Van de Vijver is the Managing Director of the proposed development and contact person for the Nuvella Managerial and Marketing Services which, has been the driving force behind the proposed project development and will continue to manage the project until completion of construction. The operation phase will be taken over and managed by Namibia Collection Management and Marketing (Pty) Ltd.

The proponents contact details are provided in Table 1.

TABLE 1 - PROPONENT DETAILS

CONT	ACT	POSTAL ADDRESS	EMAIL ADDRESS	TELEPHONE	WEBSITE
Christoph de Vijver	e Van	P O BOX 90538 WINDHOEK	christopher@nuvella.com.n a	+264 81 124 2269	N/A

1.4 PURPOSE AND SCOPE OF THIS REPORT

The purpose of this EMP is to provide a management framework for the proposed development so that the potential environmental impacts that could potential arise during construction and operation phases are avoided, minimised and mitigated as far as reasonably practicable, and that statutory requirements and other legal obligations are fulfilled.

This EMP also presents protocols, procedures, roles and responsibilities to ensure the management arrangements are appropriately and effectively implemented. This EMP forms an appendix to the environmental scoping report and has been based on the findings of the assessment; therefore, the environmental scoping report should be referred to for further information on the proposed project, assessment methodology, applicable legislation, and assessment findings.

This EMP is a live document and shall be reviewed at predetermined intervals, and / or updated when the scope of works alters, or when further data / information can be added. All personnel working on the project will be legally required to comply with the standards set out in this EMP.

The scope of this EMP includes all activities carried out during the construction and operation phases for the Driefontein Safari Lodge.



1.5 MANAGEMENT OF THIS EMP

The proponent will hold the Environmental Clearance Certificate for the proposed project and shall be responsible for the implementation and management of this EMP. Prior to the construction activities commencing, this EMP shall be reviewed, amended as required and approved ready for implementation. The implementation and management of this EMP and thus the monitoring of compliance shall be undertaken through daily duties and activities and monthly inspections.

This EMP shall be circulated to all contractors and shall be made available on the Environmental Compliance Consultancy's (ECC) website.

1.6 LIMITATIONS, UNCERTAINTIES AND ASSUMPTIONS OF THIS EMP

This EMP does not include measures for compliance with statutory occupational health and safety requirements. This will be provided in the health and safety management plan to be developed by the proponent.

Where there is any conflict between the provisions of this EMP and any contractor's obligations under their respective contracts, including statutory requirements (such as licences, project approval conditions, permits, standards, guidelines and relevant laws), the contract and statutory requirements are to take precedence.

The information contained in this EMP has been based on the project description as provided in the Environmental Scoping Report. Where the design or construction methods alter, this EMP may require updating and potential further assessment undertaken.

1.7 Environmental Consultancy

ECC, a Namibian consultancy (registration number Close Corporation 2013/11401), has prepared this EMP on behalf of the proponent. ECC operates exclusively in the environmental, social, health and safety fields for clients across Southern Africa, in both the public and private sectors. ECC is independent of the proponent and has no vested or financial interest in the proposed project, except for fair remuneration for professional services rendered.

All compliance and regulatory requirements regarding this document should be forwarded by email or post to the following address:

Environmental Compliance Consultancy PO BOX 91193 Klein Windhoek, Namibia Tel: +264 81 669 7608 Email: <u>info@eccenvironmental.com</u>



2 PROJECT MANAGEMENT PERSONNEL

This EMP provides measures, guidelines, and procedures for managing and mitigating potential environmental impacts. The EMP also indicates monitoring and reporting requirements and sets responsibilities for those carrying out management and mitigation measures. Driefontein Safari Lodge (Pty) Ltd shall provide a project team to oversee activities and responsibilities.

2.1 Organisational Structure, Roles and Responsibilities

The proponent shall be responsible for:

- Ensuring all members involved in the operations of Driefontein Safari Lodge, comply with the procedures set out in this EMP.
- Ensuring that all personnel are provided with adequate training, supervision and instruction to fulfil this requirement.
- Ensuring that any personnel allocated specific environmental responsibilities are notified of their appointment and confirm that their responsibilities are clearly understood.
- The proponent shall be responsible for ensuring and demonstrating that all personnel employed by them are compliant with this EMP, and meet the responsibilities listed above.

The key personnel and environmental responsibilities of each role are tabulated below.

TABLE 2 - KEY ROLES AND RESPONSIBILITIES

ROLE	RESPONSIBILITY & DUTIES			
Proponent	 Ensuring employees understand and comply with the requirements of this EMP 			
	– Ensuring that all personnel are provided with enough training, supervision and instructions			
	to fulfil this requirement			
	 Ensure the environmental policy is communicated to all personnel 			
	 Responsible for providing the required resources (including financial and technical) to 			
	complete any required tasks			
	 Responsible for the management, maintenance and revisions of this EMP 			
	 Maintain a community issues and concern register, and keep records of complaints 			
	 Maintain an up to date register(s) of employees who have completed the site induction 			
	 Ensuring that best environmental practice is undertaken throughout the construction and 			
	operation phases of the lodge			
	 Report any non-compliance or accidents to the relevant authority 			
General	 Responsible for ensuring compliance with this EMP including overseeing all day to day 			
Manager/ Site	activities during the duration of the project, including routine and non-routine maintenance			
Manager	works, as well as the decommissioning of the project;			
	 Ensure adequate resources are made available for implementation of this EMP; 			
	 Responsible for the management, maintenance and revisions of this EMP; 			
	- Ensure all personnel are aware of the commitments made in this EMP and any other			
	relevant regulatory requirements applicable to the project;			
	- Ensure all employees and contractors participate in a site induction process prior to			
	commencing work on the project;			
	 Maintain the community issues and concern register, and keep records of complaints; 			
	 Ensure that best environmental practice is undertaken throughout the duration of the 			

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ROLE	RESPONSIBILITY & DUTIES	
	project; and	
	 Report any non-compliance or accidents to the regulatory authority. 	
Deputy	 Ensure that all employees, contractors and visitors to the site are conversant with the 	
Manager (or	requirements of this EMP, relevant to their roles on site and adhere to this EMP at all times;	
nominated	 Provide environmental awareness / management training and site inductions for all 	
supervisor)	employees, contractors and visitors;	
	 Monitor daily operations and ensure adherence by personnel to the EMP; 	
	 Receive, respond to and record complaints; and 	
	 Report any non-compliance or accidents to the general manager. 	
Employees (and	 Responsible for being compliant with and adhering to this EMP at all times 	
contractors as	– Ensuring they have undertaken a site induction and are conversant with the requirements of	
well as visitors	this EMP	
where	 Reporting of any operations and conditions that deviate from the EMP or any non-compliant 	
applicable	issues or accidents to the proponent.	

2.2 CONTRACTORS

Any contractors hired during the construction activities and accessory works for the project duration shall be compliant with this EMP and shall be responsible for the following:

- Undertaking activities in accordance with this EMP as well as relevant policies, procedures, management plans, statutory requirements, and contract requirements
- Implementing appropriate environmental and safety management measures
- Reporting environmental issues, including actual or potential environmental incidents and hazards, to the proponent, and
- Ensuring appropriate corrective or remedial action is taken to address all environmental hazards and incidents reported by employees and subcontractors.

2.3 Employment

The proponent and all contractors shall comply with the requirements of the Regulations for Labour, Health and Safety, and any amendments to these regulations. The following shall be complied with:

- In liaison with local and regional authorities, the proponent shall ensure that local people have access to information about job opportunities and are considered first for construction/maintenance contract employment positions
- The number of job opportunities shall be made known together with the associated skills and qualifications. The maximum length of time the job is likely to last for shall be indicated
- Foreign workers with no proof of permanent legal residence shall not be hired, and
- Every effort shall be made to recruit from the pool of unemployed workers living in the surrounding area.



3 COMMUNICATION AND TRAINING

In order to ensure potential risks and impacts are minimised it is vital that personnel are appropriately informed and trained to ensure risks are mitigated. It is also important that regular effective communications are maintained with stakeholders (including local and regional authorities) and made aware of potential impacts and how to minimise or avoid them.

3.1 COMMUNICATIONS

The proponent shall communicate environmental issues to all personnel through the following means (as and when required):

- Ensure all personnel are afforded the opportunity to attend an environmental site induction that sets out their requirements in relation to this EMP
- Ensuring audits and inspections are undertaken regularly on a risk-based schedule
- Toolbox talks, including instruction on incident response procedures
- Deliver project specific environmental briefings where required
- Ensure all personnel have access to the EMP
- Ensure operators of key activities and environmentally sensitive operations are briefed and understand their requirements.

3.2 Environmental Emergency and Response

TABLE 3 - EMERGENCY CONTACT DETAILS

TOWN	AMBULANCE	POLICE	FIRE BRIGADE	HOSPITAL SERVICES	INTELLIGENCE SUPPORT AGAINST	SAVE THE RHINO TRUST
					POACHING	
Khorixas	+264 (67) 33-1064	+264 (67)	+264 (67)	+264 (67)	+264 81 169 4715	+264 (64)
KIIOIIAas	+204 (07) 55-1004	1-0111	33-1057	33-1064		403829

For any other significant environmental incidents, all relevant local and regional authorities (including traditional authorities, line ministries, I&AP) should be contacted as required and the Ministry of Environment, Forestry and Tourism (MEFT) office informed of the incident (telephone +264 61 284 2111, Windhoek). All correspondence with MEFT should be undertaken by the general manager.

For the clean-up of smaller chemical spills, the relevant Material Safety Data Sheet (MSDS) should be consulted to determine the appropriate clean-up procedure. Basic chemical spill response training will be provided as part of the site environmental induction, spill response equipment, including relevant MSDS copies, will be provided in areas where potentially environmentally hazardous chemicals may be used.

3.3 COMPLAINTS HANDLING AND RECORDING

Any complaints received verbally or in writing by any personnel on the project site shall be recorded by the receiver on a complaint register (example attached as Appendix C) that will detail the name and contact details of the complainant, date and time of the complaint, nature of complaint, action taken to resolve issues, and date of complaint handover. The proponent shall be responsible for nominating the correct personnel to coordinate and resolve the issue.



The workforce shall be informed about the complaints register, its location and the person responsible, in order to refer residents or the general public who wish to lodge a complaint. The complainant shall be informed in writing of the results of the investigation and action to be taken to rectify or address the matter(s). Where no action is taken, the reasons why are to be recorded in the register.

The complaints register shall be kept for the lodge and will be available for government or public review upon request.

3.4 TRAINING AND AWARENESS

All employees of the proponent shall be competent to perform tasks that have the potential to cause an environmental impact. Competence is defined in terms of appropriate education, training and experience.

All personnel shall be inducted with specific environment and social awareness training. The environment and social awareness training shall ensure that personnel are familiar with the principles of this EMP, the environment and social aspects and impacts associated with their activities, the procedures in place to control these impacts and the consequences of departure from these procedures. The proponent shall ensure a register of completed training is maintained. The site induction should include, but not limited to the following:

- A general site-specific induction that outlines:
 - What is meant by "environment" and the EMP
 - What are the environmental risks of this facility
 - Why the environment needs to be protected and conserved
 - How operational activities can impact on the environment
 - What can be done to mitigate against such impacts?
- The inductee's role and responsibilities with respect to implementing the EMP
- The site environmental rules
- Details of how to deal with, and who to contact, in the event of environmental problems should they occur
- The potential consequences of non-compliance with this EMP and relevant statutory requirements, and
- The role of responsible people for the project.



4 INCIDENT REPORTING

The proponent must have an accident and incident reporting system that covers all applicable statutory requirements. The section below sets out the minimum requirements for incident reporting and should be used as a basis for incident reporting, in the event that no incident reporting system exists.

4.1 MINOR INCIDENT OR "NEAR MISS"

Any incident or "near miss" involving the proponent, a nominated representative, any contractor, or its subcontractors or any third party's personnel, property, plant or equipment, must be

- 1) Orally reported to the general manager or the general managers nominated representative:
 - a. Immediately and without delay
 - b. Regardless of whether or not injury to personnel has occurred
 - c. Or property or equipment has been damaged.
- 2) Written up and handed to the general manager or the general manager's nominated representative by the end of the shift. The written report should:
 - a. State all known facts and conditions at the time of the incident and
 - b. Includes a preliminary assessment of the most likely potential consequences of the incident under the current circumstances.

4.2 SERIOUS INCIDENT

For any serious incident involving a fatality, or permanent disability, the incident scene must be left untouched until witnessed by a representative of the Police or MEFT personnel (e.g. poaching). This requirement does not preclude immediate first aid being administered and the location being made safe.

4.3 INCIDENT REPORT AND CLOSE OUT

The general manager must investigate the cause of all work accidents and significant incidents and must provide the results of the investigation and recommendations on how to prevent a recurrence of such incidents. A formal root-cause investigation process should be followed.



5 COMPLIANCE AND ENFORCEMENT

5.1 ENVIRONMENTAL INSPECTIONS AND COMPLIANCE MONITORING

Annual inspections and audits of the lodge will be managed and undertaken by the proponent. All infrastructures will be inspected to ensure that operations as per specification; no damage has been caused; and no leaks or spills have occurred. Any non-conformance shall be recorded, including the following details: brief description of non-conformance; the reason for the non-conformance; the responsible party; the result (consequence); and the corrective action taken and any necessary follow up measures required.

5.1.1. DAILY COMPLIANCE MONITORING

A copy of this EMP shall be on-site throughout the duration of the project and shall be available upon request. It is the responsibility of the general manager and deputy manager (or nominated site supervisor) to ensure this EMP is complied with through their daily roles. Daily, weekly and monthly inspections will be undertaken. Any environmental problems or risks identified shall be notified to the proponent and actioned as soon as is reasonably practicable.

5.1.2. MONTHLY COMPLIANCE MONITORING

Monthly inspections shall be undertaken by the general manager to check that the standards and procedures set out in this EMP are being complied with and pollution control measures are in place and working correctly. Any non-conformance shall be recorded, including the following details: a brief description of nonconformance; the reason for the non-conformance; the responsible party; the result (consequence); and the corrective action is taken and any necessary follow up measures required.

5.2 Non-compliance

Where it has been identified that work is not compliant with this EMP, the proponent shall ensure corrective actions are implemented so that the work returns to being compliant as soon as possible. In instances where the requirements of the EMP are not upheld, a non-conformance and corrective action notice shall be produced (refer to Appendix D). The notice shall be generated by the safety, health and environmental coordinator during the inspections and the proponent shall be responsible for ensuring a corrective action plan is established and implemented to address the identified shortcoming.

A non-compliance event / situation, for example, is considered if:

- There is evidence of contravention of this EMP and associated indicators or objectives
- The proponent has failed to comply with corrective or other instructions issued by an authority, or
- The proponent fails to respond to complaints from the public.

5.3 DISCIPLINARY ACTION

This EMP is a legally binding document and non-compliance with it shall result in disciplinary action being taken against the perpetrator/s. Such action may take the form of (but is not limited to):

- Fines / penalties
- Legal action



- Monetary penalties imposed by the proponent on the contractor
- Withdrawal of licence/s, and
- Suspension of work.

The disciplinary action shall be determined according to the nature and extend of the transgression / non-compliance, and penalties are to be weighed against the severity of the incident.

5.4 ENVIRONMENTAL PERMITS

Whilst the Water Resources Management Act, No. 11 of 2013 is not enforced, it is best practice to adhere to its stipulations while ensuring compliance with the Water Act, No. 54 of 1956, which is maintained still.

Should water not be sourced directly from private borehole, a licence to abstract water is required in terms of the Water Act, No. 54 of 1956 and shall operate in accordance with any conditions of the licence.

Since the proponent has taken it upon themselves to discharge effluent via another means the proponent must ensure that all documentation, permits and measures are in place before discharge occurs, including obtaining the relevant effluent discharge permit in terms of the Water Act, No. 54 of 1956 to be applied for at the Ministry of Agriculture, Water and Land Reform.

In order to obtain an effluent wastewater permit, the proponent should have the following information and complete the application form contained in Appendix A:

- Specification of the treatment system (type of technology)
- Description of major activities resulting in effluent generation
- List of contaminants (analysis of effluent samples)
- Effluent quality
- Points of discharge
- Show the present average quantities of incoming water, recycled water, final outflow, and
- Where final effluent discharged.



6 ENVIRONMENTAL AND SOCIAL MANAGEMENT

6.1 ENVIRONMENTAL PERFORMANCE MANAGEMENT

The summary of a register of environmental risks and issues identifies mitigation and monitoring measures, as well as roles responsible. This register will be subject to regular review by the proponent and updated when necessary. The proponent, general manager and deputy manager (or nominated site supervisor) will use this register to undertake monthly inspections to ensure the project is compliant with this EMP.

6.2 OBJECTIVES AND TARGETS

Environmental protection is the responsibility of management and if the management is environmentally aware, it motivates all employees and their associated guests to think and act in a more environmentally responsible manner. Environmental objectives and targets have been developed so that activities of Driefontein Safari Lodge can minimise potential impacts on the environment, as far as reasonably practicable.

Environmental objectives for the project are as follows:

- Zero pollution incidents
- Minimal vegetation clearing and earthworks
- Protect local flora and fauna
- Use water and other natural resources effectively and efficiently, and
- Appropriate waste management and pollution control

6.3 REGISTER OF ENVIRONMENTAL RISKS AND ISSUES

An environmental review of the proposed project development has been completed to identify all the commitments and agreements made within the environmental scoping report. From this a list of environmental commitments and risks has been produced, which details deliverables including measures identified for the prevention of pollution or damage to the environment during the project.

Table 4 provides a register of environmental risks and issues, which identifies mitigation and monitoring measures, as well as the responsible person. This register will be subject to regular review by the proponent and updated when necessary. The proponent will use this register to undertake monthly inspections to ensure the project is compliant with this EMP.



TABLE 4 - ENVIRONMENTAL RISKS AND ISSUES, MITIGATION AND MONITORING MEASURES

ACTIVITY	POTENTIAL IMPACTS	MANAGEMENT/MITIGATION MEASURES	MONITORING REQUIREMENTS	RESPONSIBILITY
General construction activities	 Potential grievances and complaints, Social discomfort and anxiety 	 Maintain continuous communication with I&APs to identify concerns and mitigation measures, Compliance with all applicable laws and agreements Training and raise awareness to sensitize employees about contentious issues such as stock theft and poaching Ensure appropriate supervision of all activities Accidents and incidents need to be reported to site manager and recorded in incident register 	– Weekly, monthly	 Site Manager (or nominated site supervisor)
	 Residing, nesting and slow moving organisms can be disturbed, injured or killed by movement of vehicles and equipment 	 Restrict movements to areas of activities only Use existing tracks and routes only Identify rare, endangered, threatened and protected species in advance Route new tracks around protected species and sensitive areas Restrict movements to daytime hours Training and raise awareness to sensitize employees and notify them on avoiding some areas No driving off designated access routes (into the bush) / off-road driving No animals or birds may be collected, caught, consumed or removed from site 	– Weekly	
	 Residing, nesting and slow moving organisms can be disturbed as a result of ambient noise from constructions, movements of vehicles and equipment Conflict with neighbours about ambient noise 	 Restrict excessive noise to areas of activities only, Restrict excessive noise to daytime hours (7 am to 5 pm weekdays and 7 am until 1 pm on Saturday), No activities between dusk and dawn, Construction equipment shall be suitably positioned to ensure that noisy equipment is away from receptors, All equipment to be shut down or throttled back between periods of use 	– Daily	



ACTIVITY	POTENTIAL IMPACTS	MANAGEMENT/MITIGATION MEASURES	MONITORING REQUIREMENTS	RESPONSIBILITY
	 Dust and emissions 	 All vehicles and equipment to be shut down or throttled back between periods of use, Use existing access roads and tracks where possible, Apply dust suppression where possible, Restrict speed of vehicles (<30km/h), Specific activities that may generate dust and impact on residents shall be avoided during high wind events. 	– Daily Weekly	-
	 Loss of soil quality due to construction activities such as trenching and pollution, Enhanced soil erosion Loss of topsoil Sand removal Sandy and muddy roads 	 Where possible, plan access routes and camps outside of existing drainage lines Where necessary, install diversions to curb possible erosion Restore drainage lines when disturbed Equipment must be in a good condition to ensure that accidental oil spills do not occur and contaminate soil In the event of spills and leaks, polluted soils must be collected and disposed of at an approved site, Minimise the disturbance and removal of topsoil If sand is required, it should be extracted from an existing permitted borrow pit Obtain the appropriate sand removal permits from Ministry of Water, Agriculture and Land Reform Ensure four-wheel off-road driving training especially for the game drivers, and Strictly no off-road driving. 	– Weekly	
Water resources and generation of wastewater	 Soil contamination Ground and surface water contamination Nuisance (Visual and odour) 	 Minimise the consumption of water throughout the construct and operations of the project. Visual monitoring and photographic record of any surface and/or groundwater intersected Recycle wastewater, where possible Install devices to prevent spills and overfills, e.g. shutoff devices for large volume tanks (e.g. > than 2000lts) 	 Daily inspection of operations 	 General Manager, and Deputy Manager (or nominated supervisor)



ACTIVITY	POTENTIAL IMPACTS	MANAGEMENT/MITIGATION MEASURES	MONITORING REQUIREMENTS	RESPONSIBILITY
		 Install an impermeable hardstand in areas of high-risk contamination to prevent ground infiltration by pollutants Segregation of wastewater (domestic and industrial effluent) During operations, monitoring of wastewater discharges should be conducted on a regular basis (quarterly) 		
Generation of Solid Waste	 Impacts on the environment due to solid waste pollution Nuisance (Visual impacts, litter) Ecological risks 	 Implement a waste management plan covering all aspects of waste generated on site Training and toolbox talks Avoid hazardous waste on site Ensure high standards of housekeeping across site Implement the waste management hierarchy across site: Avoid, reuse, recycle, then disposal Waste storage areas shall always be kept clean and tidy All solid waste must be collected and be disposed of by appropriately licensed disposal teams. Return packaging of hazardous and non-hazardous materials (wherever possible), such as empty drums, to supplier for reuse. 	 Daily observations Weekly inspections 	 General Manager Deputy Manager (or nominated supervisor), and Employees
Creation of dust and fumes during operations and vehicle movements in the area	 Impacts on the amenity, safety, public health and the environment. 	 Use existing tracks where possible No driving off designated access routes (into the bush) / off-road driving Practise dust suppression mitigation measures- water sprinkling Restrict movements to daytime hours especially during construction Maintain a speed limit on the access road to the proposed site area Communication with farmers/landowners/neighbours. Vehicles and machinery are to be regularly serviced according to the manufacturers' specifications and kept in good working order so as to minimise exhaust emissions. 	 Complaints register Daily observations Weekly inspections 	 Proponent General Manager Deputy Manager (or nominated supervisor), and Employees
Inadequate control or accidental	 Soil contamination Water contamination 	Storage - Label chemicals appropriately - Chemicals with different hazard symbols should not be stored together -	 Daily observations Weekly 	 General Manager Deputy Manager (or nominated



ACTIVITY	POTENTIAL IMPACTS	MANAGEMENT/MITIGATION MEASURES	MONITORING REQUIREMENTS	RESPONSIBILITY
ACTIVITY releases of hazardous substances on site	POTENTIAL IMPACTS	 clear guidance on the compatibility of different chemicals can be obtained from the Materials Safety Data Sheets (MSDS) which should be readily available Store chemicals in a dedicated, enclosed, and secure facility with a roof and a paved/concrete floor. Chemical tanks should be completely contained within secondary containment such as bunding Consider feasibility of substitution of hazardous chemicals with less hazardous alternatives. Storage and handling of fuels and chemicals shall e in compliance with relevant legislation and regulations Fuels, lubricants, and chemicals are to be stored within appropriately sized, impermeable bunds or trays with a capacity not less than 110% of the total volume of products stored Fire risk Control and reduce the potential risk of fire by segregating and safe storage of materials, and Avoid potential sources of ignition by prohibiting smoking in and around facilities, and Fire extinguishers should always be at designated areas and should be inspected regularly. Spills 		RESPONSIBILITY supervisor), and – Employees
		 The kits with the following items as a minimum should be made available on site: Absorbent materials Shovels Heavy-duty plastic bags Protective clothing (e.g. gloves and overalls) Major servicing of equipment shall be undertaken offsite or in appropriately equipped workshops 		



ACTIVITY	POTENTIAL IMPACTS	MANAGEMENT/MITIGATION MEASURES	MONITORING REQUIREMENTS	RESPONSIBILITY
		 For small repairs and required maintenance activities all reasonable precautions to avoid oil and fuel spills must be taken (e.g. spill trays, impervious sheets). Provision of adequate and frequent training on spill management, spill response and refueling must be provided to all onsite staff No refueling is to take place within 50 meters of groundwater boreholes, surface water or streams. Vehicles and machinery are to be regularly serviced to minimise oil and fuel leaks All major petroleum product spills (spill of more than 200 litres per spill) should be reported to the Ministry of Mines and Energy (MME) on Form PP/11 titled "Reporting of major petroleum product spill', attached as Appendix B. The following points therefore apply to all areas on the site: Assess the situation for potential hazards. Do not come into contact with the spilled substance until it has been characterised and necessary personal protective equipment (PPE) is provided. Isolate the area as required. The following measures are to be implemented in response to a spill: Spills are to be stopped at source as soon as possible (e.g. close valve or upright drum) Spill material is to be contained to the smallest area possible using a combination of absorbent material, earthen bunds or other containment methods Spill material is to be recovered as soon as possible using appropriate equipment. In most cases, it will be necessary to excavate the underlying 	REQUIREMENTS	
		soils until clean soils are encountered – All contaminated materials recovered subsequent to a spill, including		



ACTIVITY	POTENTIAL IMPACTS	MANAGEMENT/MITIGATION MEASURES	MONITORING REQUIREMENTS	RESPONSIBILITY
		 soils, absorbent pads and sawdust, are to be disposed to appropriately licensed facilities A written Incident Report must be submitted to the general manager. 		
Biodiversity - Flora and fauna	 Impact on fauna and flora; Impact on biodiversity security 	 Obtain permits for vegetation removal (if required) from the Directorate of Forestry Use existing tracks where possible Obtain an agreement and/permit for creating new tracks from MEFT and other relevant authority, if required Apply speed restrictions (<40km/hr) and avoid off-road driving Apply or design principles to avoid wildlife disturbance/interactions Fabricate the proposed lodge and associated infrastructure to blend in with the background natural environment as practically as possible A list of all staff employed during construction and operations is shared with the Conservancy and MEFT's Intelligence and the Investigation Unit (IIU) as well as the Anti-Poaching Unit. Any changes to this list are shared within 48 hours This list should include names, addresses, cell numbers and copies of employee ID's A vetting process should be undertaken, with special attention given to the tour guides to ensure well trained and reliable guides are elected to work at the establishment Regular awareness training must be conducted for all staff. This training should not be confined to the "can not do" activities but also the reasons for and impacts of such activities Strict rules should be implemented that no sharing of rhino sittings may be shared via verbal exchanges, geographical tagging of photographs or any other means An agreed security plan must be in place which is to be shared with the Conservancy and MEFT's Intelligence and the Investigation Unit No driving by night without permission or accompanied by personnel of the where the transment or accompanied by personnel of the where the transment or accompanied by personnel of the where the transment or accompanied by personnel of the where the transment or accompanied by personnel of the where the transment or accompanied by personnel of the where the transment or accompanied by perso	- Daily observations	– General Manager – Site Manager – Employees
Noise and Light	Visual impacts and	 the lodge or authority officials Noise restrictions to be put in place in the event of excessive noise 	- Complaints	 General Manager



ACTIVITY	POTENTIAL IMPACTS	MANAGEMENT/MITIGATION MEASURES	MONITORING REQUIREMENTS	RESPONSIBILITY
	noise disturbance to neighbouring residents during operation	 complaints. Maintain constant communication to stakeholders in case of events taking place Implement low/dim lights for the proposed development at night. 	register	 Deputy Manager (or nominated supervisor)
Heritage	Disruption of heritage sites	 Discovery of unearthed archaeological remains to be uncovered, the following measures (chance find procedure) shall be applied: Works to cease, area to be demarcated with appropriate tape by the site supervisor, and the Site Manager to be informed Site Manager to visit the site and determine whether work can proceed without damage to findings, mark exclusions boundary and inform the Environment and Social Manager with the GPS position if possible If works cannot proceed without damage to findings, Site Manager to inform the Environmental Manager who will get in touch with an archaeologist who will provide advice Environment and Social Manager / Archaeological Specialist to evaluate the significance of the remains and identify appropriate action, for example, record and remove; relocate or leave in situ (depending on the nature and value of the remains are human, and Obtain appropriate clearance or approval from the competent authority, if required, and recover and remove the remains to the National Museum or National Forensic Laboratory as direct. 	- Daily inspection	 General Manager
Job creation,	Beneficial socio-	 Maximise local employment and local business 	– Monthly	– Proponent
skills	economic impacts on	opportunities		- General Manager
development	a local and regional	 Enhance the use of local labour and local skills as far as reasonably 		 Deputy Manager
and business opportunities	scale	 possible Ensure that goods and services are sourced from the local and regional economy as far as reasonably possible 		(or nominated supervisor)



7 IMPLEMENTATION OF THE EMP

This Environmental Management Plan (EMP):

- A. Has been prepared according to a contract with the proponent
- B. Has been prepared based on information provided to ECC up to March 2020
- C. Is for the sole use of the proponent, for the sole purpose of an EMP
- D. Must not be used (1) by any person other than the proponent or (2) for a purpose other than an EMP, and
- E. Must not be copied without the prior written permission of ECC.



APPENDIX A: APPLICATION FOR A WASTEWATER DISCHARGE LICENCE



	DEPARTME	ENT OF WATER	R AFFAIRS & FORESTRY
FAX:	(061) 208 7160		PRIVATE BAG 13184
TEL:	(061) 208 7111		WINDHOEK
REFEREN			NAMIBIA
<u>APPLI</u>	CATION FOR A	WASTEWATER	R DISCHARGE LICENCE, IN TERM
OF P/	ART XIV OF THE	WATER RESO	URCES MANAGEMENT ACT, 2004
Repub			in the Government Gazette of th f 23 December 2004, Governmer
	IERAL INSTRUC		
	ations must be submit The Permanent Attn.: Law Adm	tted in duplicate to: t Secretary ninistration culture, Water and Fo	prestry
1. Applica	ations must be submit The Permanent Attn.: Law Adm Ministry of Agric Private Bag 131	tted in duplicate to: t Secretary ninistration culture, Water and Fo 184	orestry N\$
1. Applica 2. Applic 3. The va Se Se	ations must be submit The Permanent Attn.: Law Adm Ministry of Agric Private Bag 131 WINDHOEK ation Fee (to accomp arious sections have t ction B & C - All app ction D - Compl	tted in duplicate to: t Secretary ninistration culture, Water and Fo 184 pany this document): to be completed as fo plicants	N\$ ollows: evant to technology employed in your works.
1. Applica 2. Applic 3. The va Se Se	ations must be submit The Permanent Attn.: Law Adm Ministry of Agric Private Bag 131 WINDHOEK ation Fee (to accomp arious sections have t ction B & C - All app ction E - All app	tted in duplicate to: t Secretary ninistration culture, Water and Fo 184 pany this document): to be completed as fo plicants lete only the part rele plicants (compulsory!	N\$ ollows: evant to technology employed in your works.
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 Applica Applica Applica The value Se Se 4. Only th A sep 	ations must be submit The Permanent Attn.: Law Adm Ministry of Agric Private Bag 131 WINDHOEK ation Fee (to accomp arious sections have t ction B & C - All app ction D - Compl ction E - All app ne relevant Sections th arate application need DF TREATMENT PL	tted in duplicate to: t Secretary ninistration culture, Water and Fo 184 pany this document): to be completed as fo plicants lete only the part rele plicants (compulsory! hat have been filled i ds to be filled in for e	N\$ ollows: evant to technology employed in your works. !) in need to be submitted with this application.



B. GENERAL INFORMATIO	N		
1. Name of applicant:			×
2. Address - Contact Person:	·		
- Postal:			
- Physical:			
- Tel No.:			
- Fax No.:			
- E-mail:			
3. Region in which plant is situated:			
4. Constituency in which plant falls:			
 Type of establishment: (e.g. school, town, industry) 	-		
 Source of water supply: (e.g. borehole, river, sea) 			
7. Total water consumption:		m³/day ADW	F*
(*ADWF = Average Dry Weather Flow)		m³/day ADWI	F*
 Consumption based on the average usage over a 12-mont 	h	m ³ /day ADWI	F*
period.List different sources separatel	У	m³/day ADWI	F*
8. Application:			
Prepared by:	Name :	Position:	2.5
(e.g. Consultant)	Signature:	Date:	
Responsible Executive:	Name :	Position:	
	Signature:	Date:	
	2		



m

C. TECHNICAL DETAILS - GENERAL

Answers to the following information must be contained in this application either from the questionnaire or as an attachment thereto (see also details in Appendix A):

NAME OF TREATMENT PLANT/WORKS:

1. Type of effluent (please also refer to Section D for classifications): _____

2. Site of works:

- 2.1 Submit a site plan indicating the exact location (or intended location) of the works. This plan should indicate (as a minimum):
 - 2.1.1 General location of the works with regards to settlements, main roads, boreholes, rivers etc.
 - 2.1.2 Layout plan of property showing all existing and proposed water pipes and effluent and drainage lines in distinctive colours.
 - 2.1.3 Topographical plan/area photograph/contour plans showing the property and effluent treatment plant in relation to residential areas, rivers, pans, dams, lakes and boreholes.
 - 2.1.4 Contour plans indicating the exact location of the effluent treatment works and point of discharge of final effluent in relation to watercourses that drain the area.
 - 2.1.5 Give the following information:
 - 2.1.5.1 Distance to nearest inhabitants:
 - 2.1.5.2 Distance to nearest water abstraction point (e.g. river, borehole): ______m

2.1.5.3 Distance to nearest watercourse (e.g. dry river) and specify: _____m

- 2.1.5.4 Wind direction (main/normal)
- 2.2 Submit overall details of works:
 - 2.2.1 Type of effluent treatment system and a brief description of its method of operation. (If domestic effluents are dealt with by the local authority please enclose a letter from the authority confirming this agreement).
 - 2.2.2 Flow diagram/mass balances to show the present average quantities of incoming water, recycled water, final outflow, seepage and evaporation losses (all in m.³/day).
 - 2.2.3 Layout orientation drawing indicating all major treatment units and fence around works.
 - 2.2.4 Complete flow diagram and key design parameters to include:
 - 2.2.4.1 Dimensions and design capacities of each unit process;
 - 2.2.4.2 Process Flow Diagram(s) and major instrumentation employed, e.g. water meters;
 - 2.2.4.3 Loadings on the system (e.g. hydraulic, COD, BOD, nitrogen, phosphate);
 - 2.2.5 Indicate allowances that have been made for future expansion and increased loads (if any).
 - 2.2.6 Methods of sludge disposal or recirculation.
 - 2.2.7 Disinfection of the final effluent (indicate dosing type, method, retention period and optimum disinfectant level in final effluent).
- 3. Monitoring boreholes for monitoring groundwater pollution over time must be available within 500 m of the point of final effluent discharge.
- 4. Please note: Additional information is required for new treatment plants (e.g. an environmental impact assessment) details can be obtained from the Department of Water Affairs and Forestry.
- 5. All relevant information must be included with this application. It is a criminal offence to deliberately withhold vital information relevant to this application. Where applicants are found to be in contravention with this requirement, they may/will be prosecuted.



D. TECHNICAL DETAILS - SPECIFIC

Applicants should only complete sections relevant to their specific effluent (please tick relevant box):

D-1:	Domestic Effluent - Includes wastewater collected in towns (excluding industrial effluent!), villages, schools, lodges, administration buildings.
D-2:	Industrial Effluent - Includes wastewater generated by any industry, factory, etc.
 D-3:	Mining Effluent - Includes wastewater accumulated or collected due to mining operations (e.g. Acid mine wastewater)
D-4:	Combination/mix of various effluents (list major effluent streams on page 11)

Final Effluent Reuse

The pressure on Namibia's existing fresh-water supplies can, to a great extent, be eased by the sensible reuse of effluents for a variety of purposes including dust control, agriculture and industrial processes. Therefore, reuse of effluent after suitable treatment is encouraged.

The allowable reuse of an effluent is dependent upon its quality as well as many local circumstances and hence each application in this category needs careful and individual scrutiny, which should be undertaken by a specialist in this field and must be supported by an environmental impact assessment study.

A separate licence for effluent reuse is required and more details in this regards can be obtained from the Department of Water Affairs and Forestry.



D-2. INDUSTRIAL EFFLUENTS

	Describe industry and major activities resulting in effluent generation	on
01 480		
2.2	Capacity / Flowrates :	
	Design - Average daily flow	m. ³ /d
	- Peak hourly flow	m³/h
	Actual (if in operation) - Average daily flow	m. ³ /d
	- Peak hourly flow	m. ³ /h
	If ponds are employed, state total surface area	m²
2.3	List only major contaminants (also attach full analysis of typical effl	uent sample)
2.4	Type of treatment employed (give short overview of process):	
2.5	List major treatment chemicals* employed in the unit process(es):	
2.6	Final effluent quality after treatment (put envisaged final quality for	a new plant):
2.6		a new plant):
	Sludge generation:	
	Sludge generation: - Volume generated	m. ³ /d
	Sludge generation: - Volume generated - Mass	
	Sludge generation: - Volume generated - Mass - Method of disposal	m ³ /d kg/d
	Sludge generation: - Volume generated - Mass - Method of disposal - Place of disposal	m ³ /d kg/d
	Sludge generation: - Volume generated - Mass - Method of disposal - Place of disposal - Major constituents	m ³ /d kg/d
2.6 2.7 2.8	Sludge generation: - Volume generated - Mass - Method of disposal - Place of disposal	m. ³ /d kg/d (dry solid)
2.7	Sludge generation: - Volume generated - Mass - Method of disposal - Place of disposal - Major constituents - If sludge ponds, state frequency of cleaning Do you employ cleaner production principles (CPP)?	m. ³ /d kg/d (dry solid)

* For the chemicals employed, proper mass balances should be included that show chemical usage, movement and discharge within the factory/process(es). All safety aspects related to handling, storage and disposal of chemicals on site must be followed at all times.

9



Plant Name: Describe major activities resulting in effluent generation (e.g. type of industry): 4.1 Capacity / Flowrates of different streams (major only) 1 2 3 4.2 Type (e.g. domestic, industrial, mining, others) m³/d Design - Average daily flow - Peak hourly flow m³/h m³/d Actual (if in operation) - Average daily flow m³/h - Peak hourly flow List only major contaminants (also attach full analysis of typical effluent sample) 4.3 Type of treatment employed (give short overview of process) 4.4 4.5 List major treatment chemicals employed in the unit process(es): Final effluent quality after treatment (put envisaged final quality for a new plant) 4.6 Sludge generation: 4.7 m³/d - Volume generated kg/d (dry solid) - Mass - Method of disposal - Place of disposal - Major constituents - If sludge ponds, state frequency of cleaning

D-4. COMBINATION OF VARIOUS EFFLUENTS

11



E. FINAL EFFLUENT DISPOSAL

	1.4.1	Where is the final effluent discharged to? (E.g. French drain, pumped out by Local Authority, dry river course, p	erennial river, etc.)
1.4.3 (e.g. disinfection, filtration) 1.4.4 Is the final effluent re-used? (Yes/No) If "Yes", complete: - Do you have a reuse licence? - Amount of water that will be re-used: - For what application: - Type of irrigation used (if applicable): - What crops are grown: - Area of land that will be irrigated: 1.4.5	1.4.2	 Type of soil Suitability/porosity of soil Size of soakaway area 	
1.4.4 If "Yes", complete: - Do you have a reuse licence? - Amount of water that will be re-used: - For what application: - Type of irrigation used (if applicable): - What crops are grown: - Area of land that will be irrigated: 1.4.5	1.4.3		
If "Yes", complete: - Do you have a reuse licence? - Amount of water that will be re-used: - For what application: - Type of irrigation used (if applicable): - What crops are grown: - Area of land that will be irrigated: 1.4.5 Name (if any) downstream users (downstream of discharge point).	144	Is the final effluent re-used? (Yes/No)	
- Amount of water that will be re-used: - For what application: - Type of irrigation used (if applicable): - What crops are grown: - Area of land that will be irrigated: 1.4.5		If "Yes", complete:	
- For what application: - Type of irrigation used (if applicable): - What crops are grown: - Area of land that will be irrigated: 1.4.5 Name (if any) downstream users (downstream of discharge point).		- Do you have a reuse licence?	
- Type of irrigation used (if applicable): - What crops are grown: - Area of land that will be irrigated: 1.4.5 Name (if any) downstream users (downstream of discharge point).		- Amount of water that will be re-used:	m³/d
- What crops are grown: - Area of land that will be irrigated: 1.4.5 Name (if any) downstream users (downstream of discharge point).		- For what application:	
- Area of land that will be irrigated: 1.4.5 Name (if any) downstream users (downstream of discharge point).		- Type of irrigation used (if applicable):	
1.4.5 Name (if any) downstream users (downstream of discharge point).		- What crops are grown:	
		- Area of land that will be irrigated:	ha
	1.4.5	Name (if any) downstream users (downstream of discharge point).	
1.4.6 Past records of complaints or objections by people living close to works:	1.4.6	Past records of complaints or objections by people living close to work	ks:

 $\frac{Reuse:}{A}$ reuse licence is required – details can be obtained from the Department of Water Affairs and Forestry.

Irrigation:

The crops allowed to be irrigated are dependent upon effluent quality (details will be supplied on request by the Department of Water Affairs and Forestry).



APPENDIX B - REPORTING OF MAJOR PETROLEUM PRODUCT SPILL FORM PP/11



64	Government Gazette 23 June 2000	No. 2357
		FORM PP/11
	MINISTRY OF MINES AND ENERGY	
	PETROLEUM PRODUCTS AND ENERGY ACT, PETROLEUM PRODUCTS REGULATIONS (20	
R	EPORTING OF MAJOR PETROLEUM PRODUCT	SPILL
	(Regulation 49(1))	
Please note	that where form is completed by hand it must be complete	ed in capital letters)
l. Name of l	licence/certificate-holder/person	
	ichever is not applicable)	
	ddress	
3. Physical :	address	
4. Telephon	e Number (including code)	
Foosimile	e Number (including code)	
5. ratsmint	e Number (meruumg coue)	••••••
6. Licence/c	certificate* number and date of issue, if applicable	
(*Delete wh	ichever is not applicable)	
Delete whi	ichever is not applicable)	
7. Date of po	etroleum product spill	••••••
. Location	of petroleum product spill	
. n	6	
	for petroleum product spill	
••••••		



No. 2357	Government Gazette 23 June 2000	65
10. Type of petroleum p	product involved in petroleum product s	pill
11. Quantity of the petro	oleum product spill	
	e petroleum product has or will have any	
	e safety and health of person or the prop	35136 STEPS
	······	
••••••		••••••
••••••••••••••••••	•••••••••••••••••••••••••••••••••••••••	
13 Provide full details	of all remedial actions taken to minimi	se risks associated
	of all remedial actions taken to minimi t spills and all cleaning-up operations ta	
with petroleum product	of all remedial actions taken to minimi t spills and all cleaning-up operations ta	aken in connection
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with petroleum product therewith DECLARATION	t spills and all cleaning-up operations ta	iken in connection



APPENDIX C - COMPLAINTS REGISTER TEMPLATE

NAME	CONTACT DETAILS	DATE AND LOCATION OF COMPLIANT	NATURE OF COMPLIANT	ACTION TAKEN TO RESOLVE	NOMINATED PERSON TO RESOLVE ISSUE (Signature)	DATE OF RESOLUTION/ CLOSED OUT COMPLAINT



APPENDIX D - MONTHLY INTERNAL COMPLIANCE CERTIFICATE

FOR THE PERIOD TO		
MANAGEMENT REPRESENTATIVE:	SIGN:	
SHE COORDINATOR:	SIGN:	
Date of Submission:		
Key activities on site during the month		
NON-CONFORMANCE:		
Area of activity:		
Reason:		
Responsible party:		
Results:		



Correction action taken:
Intended follow-up:

GOOD PERFORMANCE:

Description of activity or action in which the area/person went beyond compliance towards responsible care for the environment:

ADDITIONAL COMMENTS: