



*"Balancing Growth with Resilience"*

# ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN (ESMP)

## INTERLOGIX NAMIBIA WAREHOUSE

MEFT REF NUMBER: APP: 003556



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## ABBREVIATIONS USED

• EAP	Environmental Assessment Practitioner
• ECP	Contingency Plan for Emergency Environmental Incidents
• EOC	Emergency Operations Coordinator
• HSMP	Health and Safety Management Plan
• LPG	Liquefied Petroleum Gas
• MEFT	Ministry of Environment, Forestry and Tourism
• PPE	Personal Protective Equipment
• SABS	South African Bureau of Standards
• SDS	Safety Data Sheet
• ECP	Environmental Contingency Plan
• ESMP	Environmental and Social Management Plan
• I&APs	Interested and Affected Parties
• ESIA	Environmental Impact Assessment
• EMP	Environmental Management Plan

# 1. INTRODUCTION

## 1.1. Project Background

Erongo Consulting Group (Pty) Ltd was engaged by Interlogix Namibia (Pty) Ltd to compile an Environmental Management Plan (EMP) in accordance with the Environmental Management Act, No. 7 of 2007. Interlogix Namibia herein referred to as the “Interlogix” has been operating a warehouse in Walvis Bay since 2012. Interlogix Namibia, a regional provider of Project Management and Logistics services, is dedicated to operating in a manner that is environmentally friendly. Its business tries to minimize its environmental impact and the likelihood of environmental incidents to the greatest extent possible, necessitating the creation of the Warehouse Environmental Management Plan (EMP).

Interlogix Namibia, a regional provider of Project Management and Logistics services, is dedicated to operating in a manner that is environmentally friendly. Its business tries to minimize its environmental impact and the likelihood of environmental incidents to the greatest extent possible, necessitating the creation of the Warehouse Environmental Management Plan (EMP).

Interlogix Namibia handles but not always store Hazardous chemicals. It cross documents from container onto trucks. No chemical is handled or used on site. It's all kept safe in its own container.

This Warehouse Operations Environmental Management Plan (EMP) explains how the Interlogix Namibia will implement and manage its environmental management obligations. The EMP's goal is to document implementation methods that comply with environmental legislation and ensure that environmental risks associated with the operation are adequately addressed.

This Warehouse Operations Environmental Management Plan (EMP) details how the environmental management requirements for the Interlogix Namibia operation should be implemented and managed. The EMP's purpose is to document implementation methods that are compliant with environmental regulations and ensure that the warehouse's environmental hazards are effectively addressed.

In compliance with Namibian environmental legislation (Environmental Management Act (No. 7 of 2007) and the Environmental Assessment Regulations of 2012), Interlogix Namibia has hired Erongo Consulting Group to design an Environmental Management Plan (EMP) for the warehouse. Following that, an application for an Environmental Clearance Certificate was submitted to the Ministry of Environment, Forestry, and Tourism (MEFT): Directorate of Environmental Affairs (DEA). This document is part of the application to the DEA for an Environmental Clearance Certificate for the Interlogix warehouse, in accordance with the rules and statutes of the Environmental Management Act No. 7 of 2007, as well as the environmental impacts regulations (GN 30 in GG 4878 of 6 February 2012).

The Environmental Assessment Practitioner conducted the screening process in February and March 2022 to determine the nature and scope of expected negative environmental and social impacts, define and develop the most appropriate safeguard instrument based on the nature and scope of these impacts, and establish and implement appropriate mitigation measures for the Warehouse.

With practical mitigation, emergency response and contingency plans and the implementation of the EMP, the potential project impacts can be managed and reduced to minimal effect. While impacts on human receptors from traffic and noise impacts is expected to be minor, prior awareness and

communication about the operations shall be encouraged. All other social and environmental receptors were scoped out of the assessment as significant effects were unlikely and therefore no further assessment was deemed necessary.

## 1.2 Warehouse Description

The Interlogix Warehouse is located at 8 Green Valley Street in the Walvis Bay Industrial District. The region is classed as Industrial in the Walvis Bay Town Planning Scheme. Interlogix's operations are housed in the Warehouse facility. The Warehouse's GPS coordinates are: 22°56'53.2"S 14°31'25.8"E.

Interlogix Walvis Bay Warehouse only handles chemicals and other products. It doesn't "interact with the chemicals or products," but rather it "unpacks containers and re-pack onto trucks". No chemical is handled or used on site. It's all kept safe in its own container/s.

<b>GPS coordinates for the Warehouse</b>	22°56'53.2"S 14°31'25.8"E.
<b>property (erf number and township).</b>	Erf 4981, Walvis Bay Extension 1
<b>Zoning:</b>	Industrial
<b>type of the materials usually stored on the site.</b>	Steel rods, Copper, Vehicles Copper, Steel rods, Mining equipment, and Sodium Metabisulphate are currently stored at the Warehouse (Non HAZ).
<p><b>Chemicals:</b></p> <p>(At the same, please keep in mind that, not all of these products (above) are available at the same time; this is a list of goods Interlogix Namibia have handled and may handle in the future)</p>	<p>KemFoamX 9980 –  Lix 984 N-C Composite –  Lupromin F20X –  Magnafloc 1597 –  Magnafloc 338 –  Magnafloc 1011 –  Magnafloc 9000 –  Superfloc N-100 –  Superfloc A-100 –  Rheomax DR1050 –  Rheomax DR1020 –  Calcium Lingosulphonate –  Sodium Metabisulphate –  Sulfur  Polyacrylamide  NAHS</p> <p>Lix 984 N-C Composite is also cross-docked at the warehouse.</p>

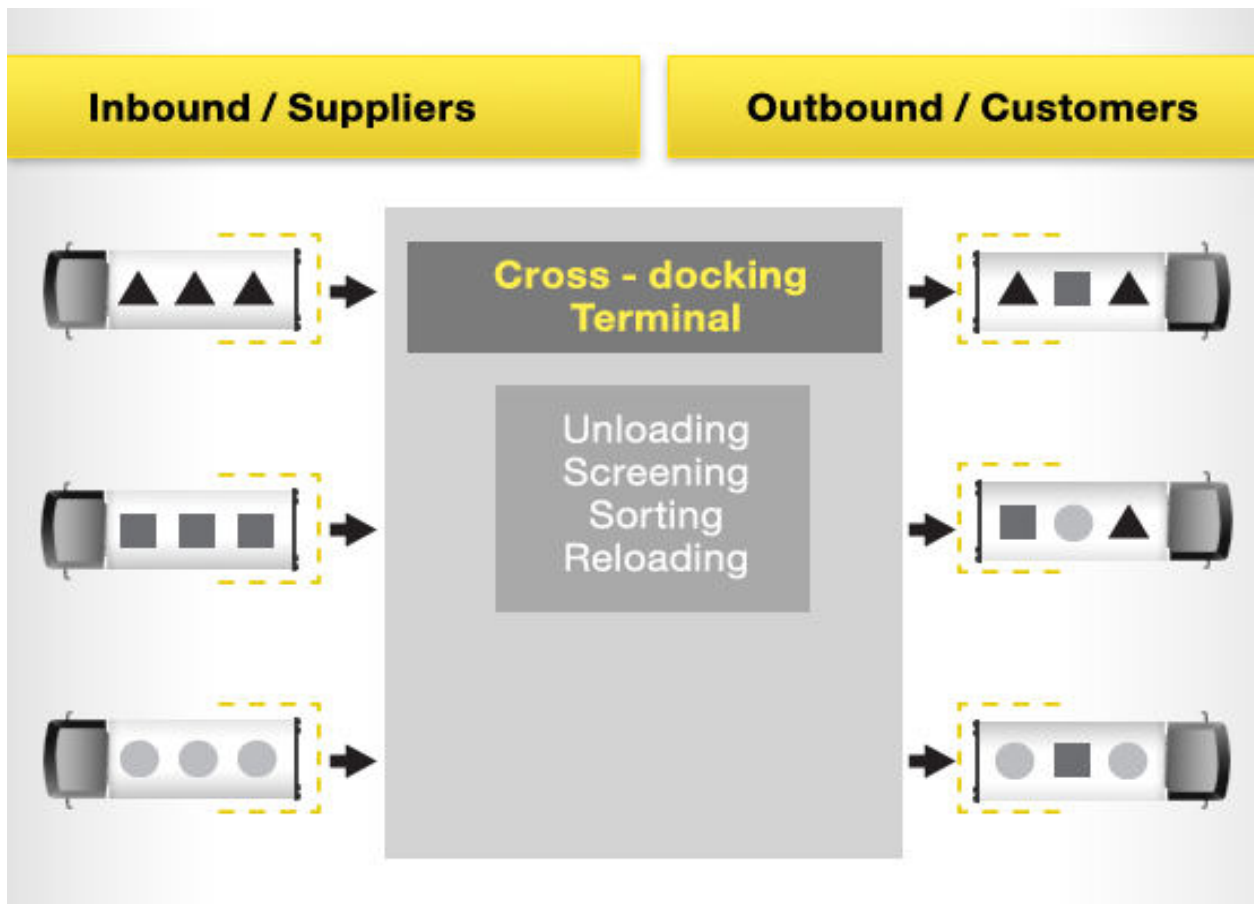
## 1.3 Cross Docking - Understanding The Concept & Definition

Speed and productivity of a supply chain has become an important factor of growth for organisations. Cross-docking is just one strategy that warehouses like Interlogix one implements to help achieve a competitive advantage. Implemented appropriately and in the right conditions, cross-docking can provide significant improvements in efficiency and handling times.

Cross docking is a logistics procedure where products from a supplier or manufacturing plant are distributed directly to a customer or retail chain with marginal to no handling or storage time. Cross docking takes place in a distribution docking terminal; usually consisting of trucks and dock doors on two (inbound and outbound) sides with minimal storage space. The name 'cross docking' explains the process of receiving products through an inbound dock and then transferring them across the dock to the outbound transportation dock.



**Figure 1:** Diagram showing the concept of Cross-Docking



In simple terms, inbound products arrive at the Interlogix Warehouse through transportation such as trucks/trailers, and are allocated to a receiving dock on one side of the 'cross dock' terminal. Once the inbound transportation has been docked its products can be moved either directly or indirectly to the outbound destinations; they can be unloaded, sorted and screened to identify their end destinations. After being sorted, products are moved to the other end of the 'cross dock' terminal via a forklift, conveyor belt, pallet truck or another means of transportation to their destined outbound dock. When the outbound transportation has been loaded, the products can then make their way to customers.

### 1.3.1 When is cross-docking used?

Cross docking can advance the supply chain for a variety of specific products. For one, unpreserved or temperature controlled items such as food which need to be transported as quickly as possible can be benefitted by this process. Additionally, already packaged and sorted products ready for transportation to a particular customer can become a faster and more efficient process through cross docking.

### 1.3.2 Some of the main reasons cross docking is implemented is to:

- Provide a central site for products to be sorted and similar products combined to be delivered to multiple destinations in the most productive and fastest method. This process can be described as "hub and spoke"
- Combine numerous smaller product loads into one method of transport to save on transportation costs. This process can be described as 'consolidation arrangements'.
- Break down large product loads into smaller loads for transportation to create an easier delivery process to the customer. This process can be described as 'deconsolidation arrangements'.

**Figure 2: Floor / Site Plan of the Interlogix Warehouse (Courtesy: WML Coast Consulting Engineers, 2012)**

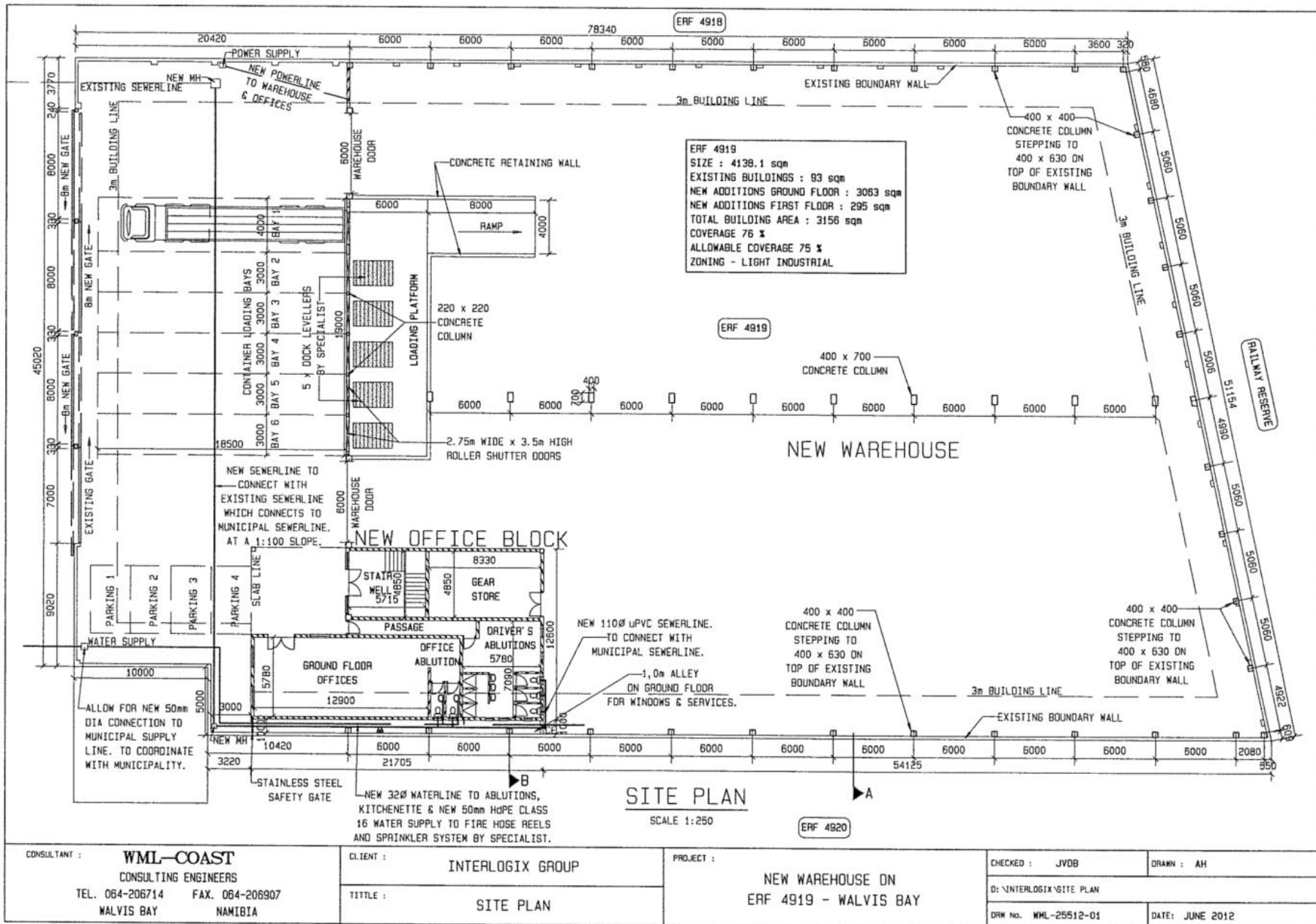
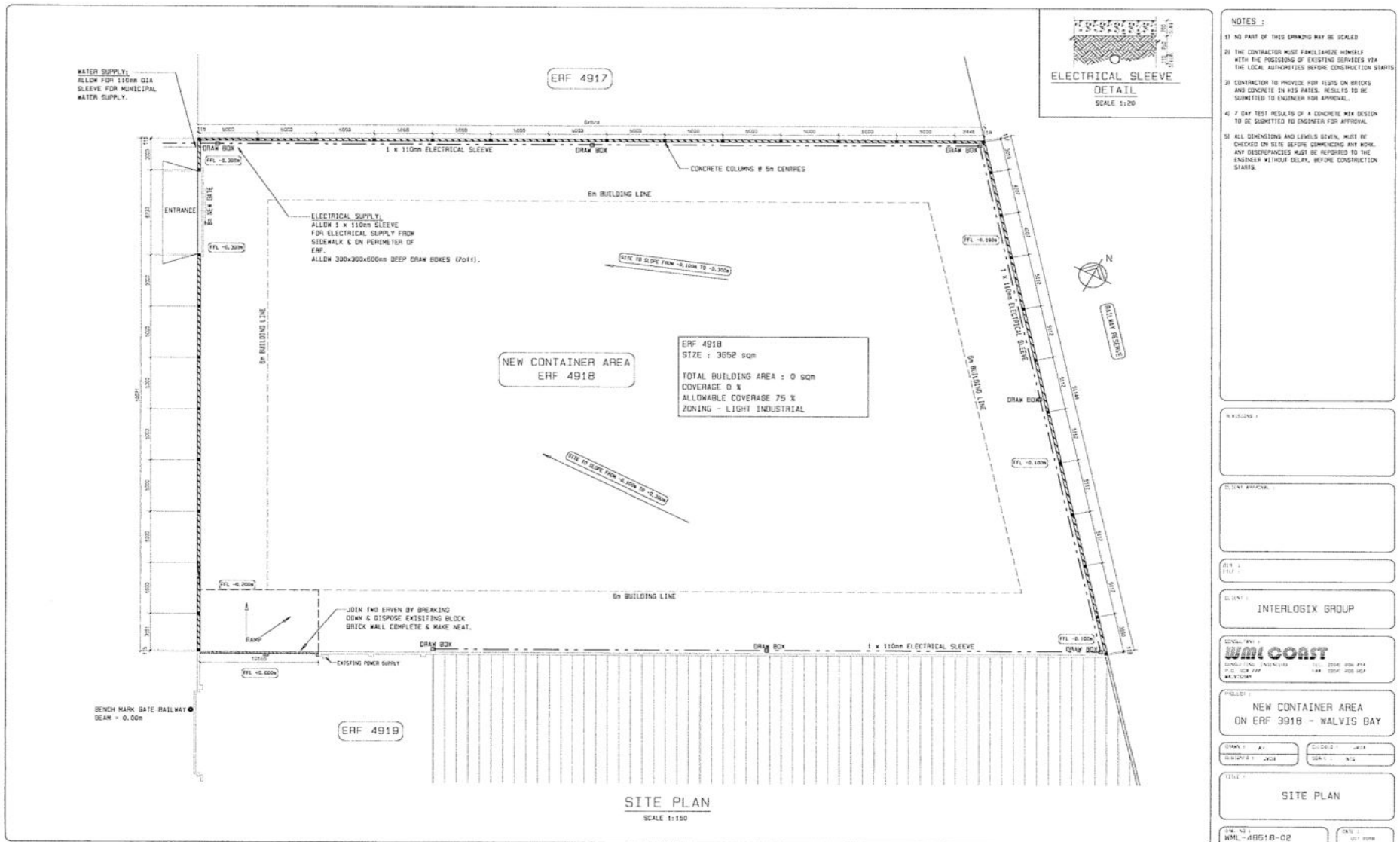




Figure 3: The Interlogix Warehouse's Open Yard (Plan) (Courtesy: WML Coast Consulting Engineers, 2012)

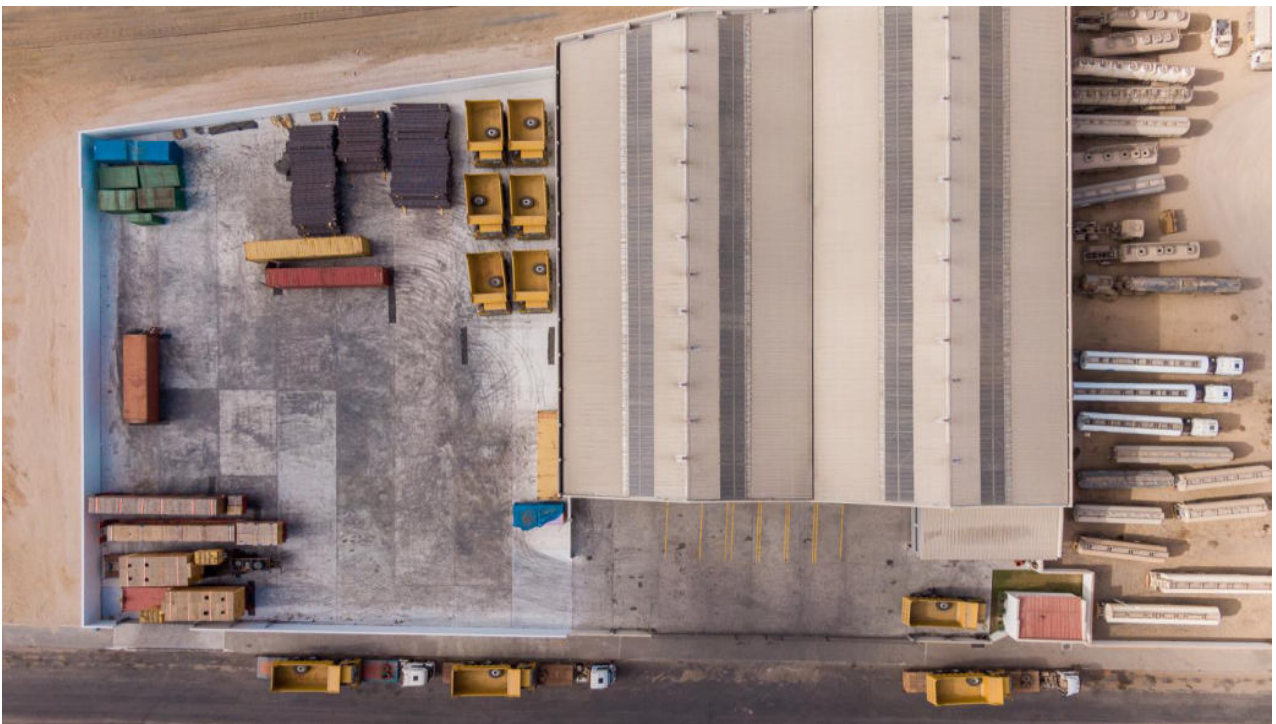




**Figure 5:** Aerial View of Interlogix Namibia's Premises / Warehouse from Above



**Figure 6:** View of Interlogix Namibia Premises / Warehouse (Aerial Large Scale Photography)





**Figure 7:** The concrete yard of the Interlogix Namibia warehouse in Walvis Bay, Namibia, as seen from above (High Oblique Photograph)



**Figure 8:** Inside View of the Warehouse Taken from The Eastern Angle





**Figure 9:** Low Oblique Photograph of the Interlogix Warehouse, Walvis Bay



**Figure 10:** Interlogix Warehouse, Walvis Bay, Namibia, from a panoramic view





**Figure 11:** From the eastern side, a panoramic picture of the Warehouse (interior)



**Figure 12** Google Map showing the Interlogix Namibia Warehouse (Imagery Courtesy, Maxar Technologies, 2022)



## **1.4 Environmental Regulatory Requirements**

Under the Environmental Impact Assessment (EIA) Regulations and the Environmental Management Act, No. 7 of 2007, warehouse activities are a listed activity. As a result, an application for an environmental clearance certificate must be submitted to the Directorate of Environmental Affairs. As part of the application process and to aid in decision-making, an EMP must be presented.

This report presents the EMP and was created in accordance with the act's and regulations' requirements.

## **1.5 Purpose and Scope of This EMP Report**

The goal of this EMP is to provide a management framework for the ongoing warehouse operations or activities so that the potential environmental impacts identified during the scoping process are avoided, minimized, and mitigated to the greatest extent possible, and that statutory requirements and other legal obligations are met.

Protocols, procedures, roles, and duties are also included in this EMP to guarantee that the management arrangements are implemented properly and successfully. This EMP is based on the assessment findings; as a result, preliminary EAP assessments should be read for additional information about the project, assessment methodology, applicable legislation, and assessment findings.

This EMP is a living document that must be reviewed and updated at predetermined intervals as the scope of work changes or new data or information becomes available. All warehouse employees will be legally required to follow the standards outlined in this EMP.

All warehouse operational activities are covered by the scope of this EMP.

## **1.6 Management of This EMP**

Interlogix Namibia (Pty) Ltd will hold the Environmental Clearance Certificate for the warehouse and will be in charge of its implementation and management. The implementation and management of this EMP, as well as compliance monitoring, will be carried out through daily duties and activities and monthly inspections.

## **1.7 Limitations, Uncertainties and Assumptions of This EMP**

This EMP does not include procedures to ensure that statutory occupational health and safety requirements, such as fire safety management, are met. This information will be included in the proponent's overall Health and Safety Management Plan (HSMP).

Where the contents of this EMP contradict with any business partner's contractual duties, including statutory requirements (such as licenses, project approval conditions, permits, standards, guidelines, and relevant legislation), the contract and statutory requirements take precedence.

The warehouse description provided by the proponent was used to compile the information in this EMP. If warehouse operation methods change, this EMP may need to be updated and possibly further assessed.

## **1.8 Environmental Assessment Practitioner (EAP)**

This EMP was prepared on behalf of the proponent, Interlogix Namibia (Pty) Ltd, by Erongo Consulting Group, a Namibian-based and registered environmental management consulting business. Erongo Consulting Group specializes in environmental, social, health, and safety

consulting for public and commercial sector clients in Namibia and abroad. Except for appropriate remuneration for professional services given, the firm is independent of the proponent and has no vested or financial interest in the proposed project.

All regulatory and compliance requirements for this document should be emailed or mailed to the following address:

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## 2 PROJECT MANAGEMENT PERSONNEL

This EMP includes measures, guidelines, and procedures for managing and mitigating potential environmental consequences. The EMP also specifies monitoring and reporting requirements, as well as who is responsible for carrying out management and mitigation measures. Interlogix Namibia (Pty) Ltd.'s selected team will directly supervise warehouse activities and responsibilities

### 2.1 Organisational Structure, Roles, And Responsibilities

The proponent is responsible for:

- Ensuring that all warehouse staff, including business partners, follow the procedures outlined in this EMP;
- Ensuring that all individuals receive adequate training, supervision, and instruction to meet this requirement; and
- Ensuring that anyone who has been assigned specific environmental responsibilities is informed of their appointment and that their responsibilities are clearly understood.

The proponent and business partners are responsible for ensuring and demonstrating that all personnel employed by them are compliant with this EMP and meet the above-mentioned responsibilities.

Each role's key personnel and environmental responsibilities are listed below:

**Table 1:** shows the primary personnel and environmental responsibilities of each function.

<p><b>Proponent / Interlogix Namibia</b></p>	<ul style="list-style-type: none"> <li>- Ensure that the planned project's environmental policy is conveyed to all staff, and that employees, business partners, and visitors understand and follow the EMP;</li> <li>- Make sure that all employees, business partners, and visitors are informed on environmental policies.</li> <li>- May designate a project manager and a site manager (or nominated supervisor) to whom the proponent may allocate tasks and responsibilities; and</li> <li>- Overall accountability for the EMP's implementation and management;</li> <li>- Responsibilities include providing the necessary resources (financial and technical) to execute the tasks;</li> </ul>
<p><b>Site Manager (or nominated supervisor)</b></p>	<ul style="list-style-type: none"> <li>- Make adequate resources available for the implementation of this EMP.</li> <li>- Responsible for ensuring compliance with this EMP, including oversight of all day-to-day activities during the project's duration, including routine and non-routine maintenance tasks, as well as decommissioning tasks; management, maintenance, and update of this EMP.</li> <li>- Ensure that all project personnel are informed of the EMP's commitments as well as any other relevant regulatory requirements;</li> <li>- Before beginning work on the project, ensure that all employees and business partners have gone through a site induction.</li> <li>- Maintain a community issue and concern register, as well as complaint records;</li> <li>- Ascertain that best environmental practices are followed throughout the project;</li> <li>- Notify the regulatory authority of any noncompliance or events.</li> <li>- Ascertain that all workers, business partners, and visitors to the site are aware of the requirements of this EMP as they pertain to their positions on site, and that they follow it at all times;</li> <li>- All employees, business partners, and visitors should get environmental awareness / management training and site inductions.</li> </ul>

	<ul style="list-style-type: none"> <li>- Observe everyday operations and check that personnel follow the EMP;</li> <li>- Receiving, responding to, and documenting complaints;</li> <li>- Any noncompliance or occurrences should be reported to the proponent.</li> </ul>
<b>Employees (and business partners and visitors where applicable)</b>	<ul style="list-style-type: none"> <li>- Responsible for adhering to this EMP throughout the project;</li> <li>- Follow this EMP at all times;</li> <li>- Ensure that all site inductions are attended;</li> <li>- Make certain that appropriate briefings for specific activities have been provided and are fully understood.</li> <li>- Any operations and conditions that deviate from the EMP, as well as any non-compliant issues or incidents, should be reported to the site manager and proponent.</li> </ul>

## **2.2 Business Partners and Service Providers**

All business partners involved in the proposed project's establishment (including partners appointed for maintenance operations and service providers) must adhere to this EMP and be liable for the following:

- Report any environmental issues to the proponent, including actual or potential environmental events and dangers; and
- Performing tasks in accordance with this EMP, as well as associated policies, procedures, management plans, legal requirements, and contract requirements;
- Implement environmental and safety management procedures that are appropriate;
- Ascertain that all environmental dangers and incidents reported are addressed with appropriate corrective or remedial action.

## **2.3 Employment**

Since the warehouse is already operational, the proponent should ensure that "locals first policy" is maintained. The following rules must be followed:

- The number of job openings, as well as the accompanying skills and qualifications, must be made public;
- The maximum amount of time that jobs are expected to last should be clearly stated;
- In collaboration with the appropriate authorities, the proponent shall ensure that local residents have access to information about job prospects and are given priority for contract roles;
- Foreigners without documentation of permanent legal residence are not to be employed; and
- Every attempt should be made to recruit from the local pool of unemployed individuals.



## 3 COMMUNICATIONS AND TRAINING

To ensure that potential risks and impacts are minimized, personnel must be properly informed and trained on operational procedures that include the aforementioned mitigation measures. It is also critical to maintain regular communication with all stakeholders and make them aware of potential consequences and how to mitigate or avoid them. This section establishes the framework for EMP communication and training.

### 3.1 Communications

Throughout the warehouse operations, the proponent and/or site manager (or nominated site supervisor) shall communicate site-wide environmental issues to the project team via the following (as and when required) means:

- Induction at the site / Warehouse;
- Site notices;
- Audits and site visits;
- Toolbox discussions, which include instruction on incident response procedures; and
- Environmental briefings on key warehouse-specific environmental issues.

To ensure that the environmental standards are successfully communicated, this EMP will be issued to the warehouse workers / team, including business partners. Employees and business partners should also be briefed on key activities and environmentally sensitive operations.

Regular interactions between the management team during the entire warehouse operations shall include discussing any complaints received and actions taken to resolve them; any inspections, audits, or non-conformance with this EMP; and any objectives or target achievements.

### 3.2 Environmental Emergency and Response

Table 2 shows a list of numbers to call in the event of an emergency. These figures will be communicated to all employees.

**Table 2:** Emergency Contact Details

NAME	CONTACT 1	CONTACT 2
Interlogix Site Manager / Jason Fourie	064 203 522	081 850 8222
<b>HEALTH / MEDICAL FACILITIES</b>		
Welwitschia Hospital Casualty	064 218 911	064 218 902
Motor vehicle Accident (MVA) Fund Emergency	9682	0817722783
Code Red Medical Services	+264 859 900	
E-med Rescue 24 Namibia	924	
Life Link Emergency Rescue Services	999	
St Gabriel Ambulance Service	+264 85 955	
<b>POLICE / CRIME</b>		
Walvis Bay Police	064-219 048	
Police Emergency Mobile	081 485 0954	
Namport Fire & Port Control	064-208 2221	064-208 2265

<b>WALVIS BAY MUNICIPALITY / LOCAL AUTHORITY</b>		
Walvis Bay Municipality	081 124 0726	
Hazardous Waste (Chemical spillages)	081 129 5017	
Public Health Services	081 143 5871	081 143 5872 081 143 5873
Refuse Removal	081 164 3481	
Water Disruptions	081 128 8328	081 122 0815
Roads & Building Control	081 128 3238	
Fire Brigade	081 922	081 122 0883 081 122 0888
Municipal Traffic (available 24/7)	064- 212901/3; 081 127 2662	081 124 3423 081 122 0822
<b>MINISTRY OF ENVIRONMENT AND TOURISM</b>		
Ministry of Environment, Forestry & Tourism - Department of Environmental Affairs	+264 61 284 2701	
Regional Head Office: Erongo Region	+264 64 404 576	
<b>ERONGO RED SERVICES (AFTER HOURS)</b>		
Electricity	081 129 3875	
Toll-free	081 9600	
<b>All relevant Emergency Procedures and Contact details will be held in the Interlogix Namibia Administration area of the Warehouse, situated at 8 Green Valley Avenue, Walvis Bay, Namibia.</b>		

Large-scale spills and other important environmental accidents should be reported to the fire department as needed, and the MEFT office notified (phone +264 61 284 2111). The General Manager should handle all MEFT correspondence with the help of the SHE Representative.

Emergency contact information shall be put on site, and site staff will be informed of the contents and phone numbers.

### 3.3 Response Concept

Among the possible incidents involving the spill of hazardous chemical substances are:

- Hazardous chemical spills as a result of truck accidents or during cross docking;
- Chemical liquid release as a result of capsized or damaged tanks;
- Accompanied by fire, explosives, property damage, and pollution; with corrosive or toxic products as a result of vehicle collision; and
- As a result of chemical substance handling while in transit from the port to the ware or from the warehouse to the final destination.

Road incidents may occur on the designated route of the (Nairport to Interlogix Warehouse or Interlogix Warehouse to final or intended destination across Southern Africa) road corridor while the goods are being transported, and such incidents may pose risks to the health and lives of communities living along the route (should such incidents occur near/within inhabited areas), as well as the environment.

### 3.4 Complaints Handling and Recording

Any complaints received verbally or in writing by warehouse personnel must be recorded by the receiver. The following information should be recorded:

- The complainant's name and contact information;
- The complaint's date and time; and
- The complaint's nature.

The information will be provided to the proponent, who is ultimately responsible for the management of complaints and will respond in writing to the complainant.

The proponent must keep a complaint log that includes the complainant's name and contact information, the date and time of the complaint, the substance of the complaint, the action taken to remedy issues, and the date of complaint handover. The proponent is in charge of appointing the appropriate persons to coordinate and address the problem.

The workforce must be informed about the complaints register, its location, and the person in charge in order to send local residents or the general public who wish to file a complaint to the appropriate person. The complaint will be notified in writing of the investigation's findings and the steps that will be taken to correct or resolve the situation (s). The reasons for not taking action must be mentioned in the register.

The complaints register shall be kept for the duration of the warehouse operations and will be available for government or public review upon request.

### **3.5 Training and Awareness**

All warehouse personnel must be qualified to perform tasks that have the potential to have an environmental impact. Competence is defined as having the necessary education, training, and experience.

### **3.6 Site Induction**

All personnel working in the warehouse and on-site, as well as business partners and visitors, must be trained in environmental and social awareness, as well as health and safety issues. The environment and social awareness training shall ensure that everyone on site is familiar with the EMP's principles, the environmental and social aspects and impacts associated with their activities, the procedures in place to control these impacts, and the consequences of deviation from these procedures.

The proponent is responsible for keeping a record of completed training.

The site induction should contain, but not be limited to, the following items:

- A basic site-specific induction that outlines:
  - o Define the terms "environment" and "society";
  - o Why is it important to safeguard and conserve the environment?
  - o The influence of construction activities on the environment; and
  - o What can be done to lessen the effects of such events;
- The role and responsibilities of the inductee in executing the EMP;
- The site's environmental policies and rules
- Specifics on how to deal with environmental issues and who to contact if they arise;
- Themes such as compliance, incident reporting, proper housekeeping, and waste management standard processes;
- The potential repercussions of failing to comply with this EMP and applicable legal requirements; and
- The project's responsible people's role; and
- Preparedness for an emergency.

## 4 EMERGENCY RESPONSE PLANS AND PROCEDURES

Interlogix Namibia (Pty) Ltd emergency response plans for potential environmental emergencies must be implemented. The following minimum content may be included in all plans:

- Using Duty Cards, relevant emergency response personnel's roles and responsibilities are clearly defined.
- Emergency response protocols;
- Resources to be used in the event of an environmental emergency;
  - o Availability of emergency response documentation and procedures;
  - o Site specific Emergency response training;
  - o Emergency response and management teams;
  - o Emergency equipment;
- Monitoring (including methods for gaining access to monitoring sites during environmental emergencies);
- Procedures for communication and cooperation with stakeholders (e.g., emergency services, municipal and state governments);
- Reporting and notifications;
- An investigation into the incident; and
- Clean-up and remediation of the site.

### 4.1 Emergency Response Procedures

Emergency response procedures are provided in the form of Emergency Situation Checklists in the relevant emergency preparedness plans. These Emergency Situation Checklists are scenario-based and serve as a guide to help the appropriate emergency response personnel respond to a specific emergency. Variations to the checklists will be at the discretion of the response leaders and will be based on sound emergency response management, engineering judgment, and operational experience (e.g. the site manager or nominate site supervisor).

The emergency response and management teams will play a critical role in incident control. The emergency response and management teams may meet on a regular basis to review and update the emergency response procedures as site conditions warrant.

### 4.2 Emergency Response Actions

#### 4.2.1 General Response to an Emergency Environmental Incident

The general measures outlined below apply to all environmental incident scenarios. In the event of an environmental emergency, these measures will be implemented to:

- Reduce the risk of human death or injury;
- Prevent environmental damage; and
- Keep infrastructure, products, and equipment safe.

More specific response actions will be determined by the type and location of the emergency environmental incident and will be detailed in the emergency preparedness and response plan.

#### 4.2.2 General Response Measures

- 1) Evacuate (all personnel who are not essential);
- 2) Remove (ignition sources, sparks, etc.)
- 3) Stop and Coordinate (if possible, stop the source of the event (e.g., a spill) and coordinate the shutdown of necessary equipment);

4) Notify (both internally and externally):

- a. All emergency environmental situations must be immediately notified to the site manager; and
- b. As needed, conduct regulatory or emergency services reports.

- 5) Use SDSs to identify (material (if unknown), PPE, risks, and response methods);
- 6) Limit / Isolate (use emergency response equipment to contain the discharged material / incident and/or put up a perimeter to isolate the region);
- 7) Neutralize and Stabilize (neutralize / stabilize spilt material (if applicable), utilize absorbents to stabilize other discharged materials, etc.)
- 8) Clean up (remove spilled products, spill response materials, and any media that has been impacted).
- 9) Assess, document, investigate, and correct (if necessary).

If initial monitoring in response to an environmental release reveals the potential for environmental impact, a Contaminated Site Assessment is required to determine whether the site contamination poses a risk to human health and/or the environment (on or off the site), and whether the release is large enough to warrant remediation or a management control appropriate to the current or proposed land use.

An investigation work plan will be developed based on the release and potential area of impact. The fluids/chemicals released, the media impacts (land and/or water), and the environmental setting will all be considered in this work plan.



## **5 REPORTING, COMPLIANCE, AND ENFORCEMENT**

### **5.1 Environmental Inspections and Compliance Monitoring**

Environmental monitoring will be carried out to ensure adherence to the EMP and environmental authorisation conditions, as well as in the event of an emergency environmental incident. Inspections will be conducted on a daily, weekly, and monthly basis to ensure compliance. These inspections will be carried out in accordance with the EMP's commitments and the environmental authorisation's compliance conditions.

#### **5.1.1 Emergency Monitoring**

The specifics of environmental monitoring activities, such as appropriate monitoring locations, will vary depending on the nature of the incident and will be determined at the time of the incident.

Typical monitoring requirements may include:

- Visual inspections to ascertain the nature and extent of impacts, as well as ongoing response actions;
- Vapour monitoring in relation to the release of chemical vapours into the atmosphere.
- Field pH and conductivity measurements in temporary containment structures; and/or
- Where necessary, laboratory measurements to identify constituents of concern in affected areas (e.g., soils).

In the post-incident investigation, assessment, and, if necessary, remediation activities, more robust sampling and analysis may be performed. This will include implementing receiving environment monitoring programs in areas where contaminants have been released to land or water in order to assess the extent of any environmental impact.

#### **5.1.2 Daily Compliance Monitoring**

A copy of this EMP must be kept on-site during warehouse operations and made available upon request. It is the proponent's and site manager's (or nominated site supervisor's) responsibility to ensure that this EMP is followed in their daily roles. Daily and weekly inspections will be carried out. Daily and weekly inspections should include the following as a bare minimum:

- Inspections of housekeeping;
- The state of emergency response equipment, such as spill kits;
- Cross-docking facility integrity;
- Signage condition;
- Transport / truck condition;
- The state and capacity of waste disposal facilities.

The site manager will keep inspection records. Any identified environmental problems or risks must be reported to the proponent and addressed as soon as reasonably possible.

#### **5.1.3 Monthly Compliance Monitoring**

The site manager will conduct monthly inspections to ensure that the standards and procedures outlined in this EMP are followed and that pollution control measures are in place and functioning properly. Any non-conformance must be documented, including the following information: a brief description of the non-conformance; the reason for the non-conformance; the responsible party; the result (consequence); and the corrective action taken, as well as any necessary follow-up measures. A monthly inspection should include the following items as a bare minimum:

- Lighting, particularly around the offloading/cross docking area;
- The structural integrity of offloading and cross-docking facilities;

- The condition of truck couplings.

## **5.2 Reporting**

There shall be a requirement to ensure that any incident or non-compliance, including any environmental issue, equipment failure, or incident, is immediately reported to the proponent.

## **5.3 Environmental Permits**

The operation of this warehouse is not expected to require any environmental permits outside an ECC.

## **5.4 Non-Compliance**

When activities are found to be non-compliant with this EMP, the proponent must take corrective action as soon as possible to bring the activities back into compliance. In the event that the EMP's requirements are not met, a non-conformance and corrective action notice must be issued. During the inspections, the notice will be generated, and the proponent will be responsible for establishing and implementing a corrective action plan to address the identified shortcoming.

For example, a non-compliance event or situation is considered if:

- There is evidence of the contravention of this EMP and associated indicators or objectives;
- The proponent and / or site manager (or nominated supervisor) have failed to comply with corrective or other instructions issued by the proponent or qualified authority; or
- The proponent and /or site manager (or nominated supervisor) fail to respond to complaints from the public
- Activities shall be stopped in the event of a non-compliance until corrective action(s) has been completed.

## **5.5 Incident Reporting**

The proponent must maintain an incident reporting system (including minor or near-miss incidents) to ensure that all applicable statutory requirements are met. The scene of any serious incident involving a fatality or permanent disability must be left untouched until a police representative arrives. This requirement does not preclude immediate first aid and the establishment of a safe environment. The required statutory reporting for a serious environmental incident must be followed.

All safety and environmental significant incidents must be investigated by the proponent in collaboration with the site manager or nominated supervisor, and the results of the investigation must be provided along with recommendations on how to avoid recurrence. It is necessary to follow a formal root-cause investigation procedure.

## **5.6 Disciplinary Action**

This EMP is a legally binding document, and failure to follow it will result in disciplinary action against the perpetrator(s). Such action could include (but is not limited to):

- Penalties and fines;
- Taking legal action;
- Financial penalties imposed on business partners by the proponent;
- License/s are revoked; and
- Workplace suspension.

The severity of the incident will be weighed against the severity of the disciplinary action, which will be determined by the nature and extent of the transgression or non-compliance.

## **6 ENVIRONMENTAL AND SOCIAL MANAGEMENT**

### **6.1 Objectives and Targets**

Environmental objectives for the project are as follows:

- Zero pollution incidents;
- Minimal disturbance to traffic;
- Minimise noise pollution;
- Minimise light pollution (the correct placement of lights);
- Minimise dust pollution; and
- Minimise the generation and disposal of waste.

### **6.2 Register of Environmental Risks and Issues**

An environmental review of warehouse operations was completed in order to identify all commitments and agreements made in the environmental assessment report. This resulted in the creation of a list of environmental commitments and risks, which includes deliverables such as measures identified for the prevention of pollution or environmental damage during the project.

The supporting Contingency Plan for Emergency Environmental Incidents (ECP) aims to provide an overview of management practices in place to minimize environmental harm during emergency environmental incidents. The ECP identifies potential emergency environmental incidents as well as the details of an emergency environmental incident response, such as escalation, communication, reporting, and monitoring.

### **6.3 Impacts Identified for Further Actions**

#### **6.3.1 Noise Impacts the from The Warehouse / Site**

Noise levels from trucks offloading or collecting goods (cross docking) from the warehouse may be increased as a result of warehouse operations. Noise from forklifts can often be reduced through modification or the use of improved sound reduction methods, but this should only be done after consulting with the manufacturer.

For constant continuous noise, such as that produced by diesel engines, a more effective exhaust silencer system or the design of an acoustic canopy to replace the normal engine cover may be able to reduce the noise emitted. Any project of this nature should be carried out in consultation with the original equipment manufacturer and a noise reduction specialist. The replacement canopy should not overheat the engine or cause excessive interference.

Restricting operation hours, traffic calming measures, defined routes to and from the site, maintaining the boundary fence, scheduling noisy activities, and notifying the community prior to noisy activities are all recommended mitigation measures to consider.

#### **6.3.2 Fire Risk Occurrences On Site and Possible Corrosion**

Some chemicals, such as sulphuric acid, are very reactive and dissolve most metals; it is a concentrated acid that oxidizes and dehydrates most organic compounds, and it frequently causes incomplete combustion. Heat is produced when sulphuric acid reacts violently with alcohol and water. It reacts with most metals, especially when diluted with water, to form flammable hydrogen gas, which can cause an explosion. Sulphuric acid is not flammable and does not burn on its own, but it is a powerful oxidizer that aids in the combustion of other substances. Poisonous gases are released during a fire.

The proponent will ensure that the bund and any acid handling area are protected from corrosion by coating them with an anticorrosive protector. Annual wall thickness testing will be performed to ensure the warehouse's structural integrity. If a level difference is detected, the system will notify the operators immediately. As part of the planned maintenance schedule, this system will be tested on a regular basis. Warehouse renovation should be included in the proponent's long-term maintenance plans and standard operating procedures for the facility.

The proponent should ensure that the warehouse is protected against corrosion by coating it with an anticorrosive protector.

### **6.3.3 Traffic Impacts from Operation Activities**

Increased traffic to and from the warehouse may cause delays on Green Valley Avenue in the Walvis Bay Industrial Area. This could potentially have an impact on local businesses, as alternative routes through the area may be required, increasing traffic flow times. This may cause increased traffic congestion on the road to and within the port, an increase in the risk of incidents, deterioration of road surfaces, and vibration-related damage to existing infrastructure. Interlogix Namibia is responsible for ensuring the implementation of a practical traffic management plan to manage the potential effects on traffic conditions surrounding the site in order to reduce the level of significance on sensitive receptors. An independent traffic impact assessment should be performed.

Trucks should not be allowed to obstruct traffic or access points to other businesses and facilities on routes through Walvis Bay and to their final destinations. If any unusual traffic impacts are expected, traffic management should be performed in collaboration with the local traffic department to avoid them. Traffic regulations must be followed.

**Table 3: Environmental Risks and Issues, And Mitigation and Monitoring Measures**

<b>OPERATIONS PHASE</b>				
<p><b>General operation activities and handling of sulphuric acid with any other non-compatibles - Steel rods, Copper, Vehicles Copper, Steel rods, Mining equipment, and Sodium Metabisulphate</b></p>	<ul style="list-style-type: none"> <li>- Risks of fire occurrences. Fire risks may result in property damage, possible injury / death and impacts of uncontrolled fires and explosions on site</li> </ul>	<ul style="list-style-type: none"> <li>- An emergency and management procedure should be in place in collaboration with the local authority for the facility and implement its provisions including monitoring;</li> <li>- Adequate safety signage should be displayed on all levels of the facility as per the proponent's health and safety management plan principles and local municipal regulations in this regard;</li> <li>- All firefighting systems to be tested and maintained regularly as well as firefighting equipment; and</li> <li>- All emergency escape routes to be kept uncluttered and unblocked to allow easy exit from the building.</li> <li>- Fire protection systems should be provided in the entire facility area along with appropriate type of fire extinguishers.</li> <li>- Fire alarm system provided in main production units, warehouse and administrative office.</li> <li>- Conduct quarterly emergency drills.</li> <li>- The Proponent will ensure that only compatible chemicals and products will be stored within proximity to the acid.</li> <li>- Maintain a fire protection and a prevention plan, with inclusion of an emergency response and firefighting plan to manage fire risk.</li> <li>- Avoid hot works near handling areas.</li> </ul>	<p><b>Daily throughout the operation period</b></p>	<p><b>Site manager or The nominated site supervisor</b></p>
	<ul style="list-style-type: none"> <li>- <b>Safety of employees, site visitors and other users or stakeholders</b></li> </ul>	<ul style="list-style-type: none"> <li>- The proponent should implement its health and safety management plan stringently;</li> <li>- Ensure all entrances and exits are structurally sound and safe to use at all times;</li> <li>- Ensure security personnel are adequately trained and visible throughout the public spaces within and outside the building;</li> <li>- Ensure that effective complaints recording procedures are in place;</li> <li>- Piping will be provided with continuity jumpers and earthing for flammable liquid;</li> <li>- Safety valve provided as per requirement</li> <li>- Pre-employment and periodic medical screening being carried out.</li> <li>- Adequate Personal Protective Equipment (PPE) such as</li> </ul>	<p><b>Daily throughout the operation period</b></p>	<p><b>Site manager or The nominated site supervisor</b></p>



		<p>appropriate gloves,</p> <ul style="list-style-type: none"> <li>- safety goggles, helmets, safety shoes, protective clothing, apron, respirators are provided.</li> <li>- First aid and firefighting training will be provided to all the employees.</li> <li>- Standard operating procedures provided for each unit operations</li> <li>- On site emergency plan is prepared for the onsite emergencies.</li> </ul>		
<p><b>handling of chemicals on site, Steel rods, Copper, Vehicles Copper, Steel rods, Mining equipment, and Sodium Metabisulphate</b></p>	<ul style="list-style-type: none"> <li>- Incidental and or uncontrolled spills may potentially result in release of hazardous substances on site</li> <li>- Risks of explosions</li> <li>- The potential impact likely to occur from a Voluminous acid Spill event (i.e., Total loss of containment)</li> <li>- Surface water site: contamination</li> </ul>	<p><b>handling:</b></p> <ul style="list-style-type: none"> <li>- Chemicals to be handled through bunding to ensure that any possible bunding failure will be contained within the bunded area of a 110% size.</li> <li>- The bund to be built of cast and concrete with acid proof tiles to control any damage from incidental spills of the sulphuric acid.</li> <li>- Interlogix Namibia will ensure that the warehouse is coated with an anticorrosive protector that prevents corrosion.</li> <li>- The cover should be inspected regularly for any holes and breaching as a result of corrosion.</li> <li>- Conduct wall thickness testing on annual basis</li> <li>- During cross docking, Interlogix to ensure that no spills are witnessed</li> </ul> <p><b>In an event of a spill the following points therefore apply to all areas on the site</b></p> <ul style="list-style-type: none"> <li>- Assess the situation for potential hazards.</li> <li>- Notify trained personnel immediately, such as the company fire officer or the local fire department. Untrained persons or those without proper personal protective equipment must not enter areas with high concentrations of sulphuric acid.</li> <li>- Evacuate and restrict people from the hazardous area of a acid release.</li> <li>- Do not come into contact with the spilled substance until it has been characterised and necessary personal protective equipment (PPE) is provided.</li> <li>- Stop or control the source of exposure.</li> <li>- Isolate the area as required.</li> <li>- Collect or confine the spill. Dilute and neutralize the spill and dispose in a secured landfill. Sulphuric acid may be absorbed in vermiculite, dry sand, or similar material.</li> </ul> <p><b>The following measures are to be implemented in response</b></p>	<p><b>Weekly, Monthly</b></p>	<p><b>Site manager or the nominated site supervisor</b></p>

		<p><b>to a spill:</b></p> <ul style="list-style-type: none"> <li>- spilt material is to be contained to the smallest area possible using a combination of absorbent material, earthen bunds or other containment methods;</li> <li>- Spilt material is to be recovered as soon as possible using appropriate equipment;</li> <li>- Acid spills should be neutralized and then cleaned up. Do not use a strong base, to neutralize a strong acid rather dilute and then neutralize;</li> <li>- All contaminated materials recovered subsequent to a spill, including soils, absorbent pads and sawdust, are to be disposed of at an appropriately licensed facility;</li> <li>- A written Incident Report must be submitted to the general manager and local authority</li> </ul>		
	<ul style="list-style-type: none"> <li>- Increased traffic flow in the immediate vicinity</li> <li>- Additional heavy traffic volume and flow within the site and via the designated route to the final destinations</li> </ul>	<ul style="list-style-type: none"> <li>- During operations restrict movement to agree upon operation hours;</li> <li>- Establish traffic calming measures and defined routes to and from the site</li> <li>- Interlogix Namibia is responsible for ensuring a practical traffic management plan is implemented to manage the potential effects on traffic conditions surrounding the site so as to reduce the impact.</li> <li>- It was recommended that truck circulation on-site should only occur in a forward direction. Any reversing of trucks should be kept to a minimum and only within areas that are closed off to general public movements.</li> </ul>	<b>Monthly</b>	<b>Site manager or The nominated site supervisor</b>
<b>Generation of general waste</b>	<ul style="list-style-type: none"> <li>- <b>Unhygienic proliferation of domestic waste on site</b></li> </ul>	<ul style="list-style-type: none"> <li>- During operations, the solid waste for the proposed development will be managed and improved in line with the principles of the waste hierarchy of waste prevention, re-use, recycle or compost, energy recovery and disposal, where waste minimisation and recycling is preferred to waste treatment and disposal (National Solid Waste Management Strategy, MET 2019);</li> <li>- A refuse container will be a SABS approved (SABS 1494), 240 litre, Polyethylene, two wheeled, mobile refuse containers (MGB 240), internationally known as the "Otto Bin"; and</li> <li>- Every commercial unit should be supplied with an Otto Bin and all bins should be stored in a central storage area within the premises and emptied on a weekly basis.</li> </ul>	<b>Weekly</b>	<b>Site manager or The nominated site supervisor</b>
<b>Waste Management</b>	<ul style="list-style-type: none"> <li>- Environmental pollution (littering and poor storage of waste)</li> </ul>	<ul style="list-style-type: none"> <li>- Implement a waste management plan covering all aspects of waste generated on site</li> <li>- Training and toolbox talk about importance of waste management</li> </ul>		

	-	<ul style="list-style-type: none"> <li>- Ensure high standard of housekeeping across the site</li> <li>- Solid waste shall be stored in an appointed area in covered, tip-proof metal drums/skips for collection and disposal to an approved waste management site.</li> <li>- The waste storage areas shall always be kept clean and tidy</li> <li>- Implement the waste management hierarchy across the site: Avoid, reuse, recycle, then the disposal</li> <li>- Return packaging of hazardous and non-hazardous materials (wherever possible), such as empty bags, to facilities for reuse</li> <li>- Solid wastes should be deposited/emptied on a regulate basis</li> <li>- See the material safety data sheets available from suppliers for disposal of contaminated products and empty containers</li> <li>- Liaise with the municipality regarding the waste and handling of hazardous waste.</li> <li>- Hydrocarbon and chemical contaminated solids have the potential to cause contamination to the soil, ground and/or surface water, thus correct storage and disposal methods are required.</li> </ul>		
<b>Job creation, Skills development and business opportunities</b>	<ul style="list-style-type: none"> <li>- Beneficial socio-economic impacts on a local and regional scale.</li> <li>-</li> </ul>	<ul style="list-style-type: none"> <li>- Maximise local employment and local business opportunities;</li> <li>- Enhance the use of local labour and local skills as far as reasonably possible;</li> <li>- Ensure that goods and services are sourced from the local and regional economy as far as reasonably possible.</li> </ul>	Quarterly	Site manager or the nominated site supervisor

## 7 IMPLEMENTATION OF THE EMP

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All warehouse operations will be conducted in accordance with the legal requirements. While the operation of the Interlogix Namibia warehouse does not fall under the EMA, No. 7 of 2007, it is recognized that some activities may infer to the act as a result of the project; consequently, the EMP evaluates the act's applicable rules and standards.

For the warehouse activities that have been identified, no significant impacts are expected, and management and mitigation procedures for potential risks are in place. Since 2012 when the warehouse started operates, no deaths or injury, let alone spills or accidents have been witnessed on the site.

This EMP entails:

- Has been developed in accordance with the terms of a contract with the proponent
- Has been compiled using information submitted to ECC up until May 2021.
- Is solely for the benefit of the proponent and for the goal of an EMP.
- It may not be utilized by anybody other than the proponent or for any purpose other than an EMP, and it may not be used by anyone other than the proponent.
- No copies may be made without ECC's prior written authorization.

The EMP was created using information provided by the proponent as well as the environmental and social impact assessment report.

# APPENDIX A

## AN EXAMPLE OF THE INCIDENT REPORT TEMPLATE

### Incident Report Template

REPORTED BY: \_\_\_\_\_ DATE OF REPORT: \_\_\_\_\_  
TITLE / ROLE: \_\_\_\_\_ INCIDENT NO.: \_\_\_\_\_

#### INCIDENT INFORMATION

INCIDENT TYPE: \_\_\_\_\_ DATE OF INCIDENT: \_\_\_\_\_  
LOCATION: \_\_\_\_\_  
CITY / TOWN : \_\_\_\_\_  
SPECIFIC AREA OF LOCATION (if applicable): \_\_\_\_\_

#### INCIDENT DESCRIPTION

#### NAME / ROLE / CONTACT OF PARTIES INVOLVED

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

#### NAME / ROLE / CONTACT OF WITNESSES

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

POLICE REPORT FILED? \_\_\_\_\_ POLICE DISTRICT: \_\_\_\_\_  
REPORTING OFFICER: \_\_\_\_\_ PHONE: \_\_\_\_\_

#### FOLLOW-UP ACTION

SUPERVISOR NAME: \_\_\_\_\_ SUPERVISOR SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_



# APPENDIX B

## EMPLOYEE INCIDENT REPORT TEMPLATE

REPORTED BY: \_\_\_\_\_

DATE OF REPORT: \_\_\_\_\_

TITLE / ROLE: \_\_\_\_\_

INCIDENT NO.: \_\_\_\_\_

### EMPLOYEE INCIDENT INFORMATION

EMPLOYEE NAME: \_\_\_\_\_ EMPLOYEE TITLE / ROLE: \_\_\_\_\_

DATE OF INCIDENT: \_\_\_\_\_ TIME OF INCIDENT: \_\_\_\_\_

LOCATION: \_\_\_\_\_

SPECIFIC AREA OF LOCATION: \_\_\_\_\_

ADDITIONAL PERSON(S) INVOLVED: \_\_\_\_\_

WITNESSES: \_\_\_\_\_

INCIDENT DESCRIPTION INCLUDING ANY EVENTS LEADING TO OR IMMEDIATELY FOLLOWING THE INCIDENT:

\_\_\_\_\_

EMPLOYEE EXPLANATION OF EVENTS / CIRCUMSTANCES:

\_\_\_\_\_

RESULTING ACTION EXECUTED, PLANNED, OR RECOMMENDED:

\_\_\_\_\_

EMPLOYEE NAME: \_\_\_\_\_

EMPLOYEE SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

REPORTING STAFF NAME: \_\_\_\_\_

REPORTING STAFF SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

HR REP NAME: \_\_\_\_\_

HR REP SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

## APPENDIX C

### COMPLAINTS REGISTER TEMPLATE

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

## APPENDIX D

### MONTHLY INTERNAL COMPLIANCE CERTIFICATE FOR THE PERIOD FROM: ..... TO: .....

<b>MANAGEMENT REPRESENTATIVE:</b>	
<b>SIGN:</b>	
<b>SHE REPRESENTATIVE:</b>	
<b>SIGN:</b>	
<b>Date of Submission:</b>	
<b>KEY ACTIVITIES ON SITE DURING THE MONTH:</b>	
<b>NON-CONFORMANCE:</b>	
<b>Area of activity:</b>	
<b>Reason:</b>	
<b>Responsible party:</b>	
<b>Correction action taken:</b>	
<b>Intended follow-up:</b>	
<b>GOOD PERFORMANCE:</b>	
<b>Description of activity or action in which the area/person went beyond compliance towards responsible care for the environment:</b>	
<b>ADDITIONAL COMMENTS:</b>	

## APPENDIX E

### - TEMPLATE FOR MONITORING

- INSPECTION DATE:
- INSPECTION COMPLETED BY:
- SUMMARY OF ACTIVITIES OCCURRING:

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Ref No.	Item	Requirements	Responsibility	Compliant	Notes / Action Taken / Corrective Action Required
1)	Noise	<ul style="list-style-type: none"> <li>- Is the facility avoiding noise generating activities at night?</li> <li>- Is scheduling of works to avoid disturbance between the hours of 22pm and 5 am in place?</li> <li>- Are Saturday operational periods from 8 am – 12 noon,</li> <li>- Are procedures for receiving complaints from nearby land users or residents in place and mitigation measures implemented should operations generate</li> </ul>	<ul style="list-style-type: none"> <li>- SHE Rep / Site Manager</li> </ul>	<ul style="list-style-type: none"> <li>Yes</li> <li>No</li> <li>N/A</li> </ul>	
2)	Operations of mechanical equipment and engines	<ul style="list-style-type: none"> <li>- Are regular checks of all equipment conducted routinely?</li> <li>- Are equipment services up to date?</li> <li>- Are spill kits and/or drip trays available?</li> </ul>	<ul style="list-style-type: none"> <li>- SHE Rep, and Site Manager</li> </ul>	<ul style="list-style-type: none"> <li>Yes</li> <li>No</li> <li>N/A</li> </ul>	
3)	Production and effluent discharge	<ul style="list-style-type: none"> <li>- Is the domestic and industrial effluent discharged off into approved systems?</li> <li>- If not, are regular water quality samples taken to ensure the treated wastewater complies to the prescribed general standards as set out in the Water Resources Management Act, 2004 (Act No. 24 of 2004)?</li> </ul>	<ul style="list-style-type: none"> <li>- SHE Rep, and Site Manager</li> </ul>	<ul style="list-style-type: none"> <li>Yes</li> <li>No</li> <li>N/A</li> </ul>	
4)	Solid waste generation	<ul style="list-style-type: none"> <li>- Has the waste management plan and the application of the waste management hierarchy implemented?</li> <li>- Are suitable collection points in place for waste collection at the warehouse?</li> <li>- Is waste collected regularly and transported correctly?</li> <li>- Is hazardous waste such as waste oil/lubricant stored in a hazardous waste storage area and disposed of by accredited hazardous waste handlers</li> </ul>	<ul style="list-style-type: none"> <li>- SHE Rep, and Site Manager</li> </ul>	<ul style="list-style-type: none"> <li>Yes</li> <li>No</li> <li>N/A</li> </ul>	
5)	Lighting	<ul style="list-style-type: none"> <li>- Are energy-efficient light bulbs installed?</li> <li>- Is unnecessary lighting avoided where possible?</li> <li>- Are lights switched off at night?</li> </ul>	<ul style="list-style-type: none"> <li>- SHE Rep, and Site Manager</li> </ul>	<ul style="list-style-type: none"> <li>Yes</li> <li>No</li> <li>N/A</li> </ul>	
6)	Air Emissions	<ul style="list-style-type: none"> <li>- Are the dust extractors cleaned regularly?</li> <li>- Are vehicles serviced regularly to reduce emissions?</li> <li>- Is there dust monitoring system in place?</li> </ul>	<ul style="list-style-type: none"> <li>- SHE Rep and Site Manager</li> </ul>	<ul style="list-style-type: none"> <li>Yes</li> <li>No</li> <li>N/A</li> </ul>	
7)	PPE	<ul style="list-style-type: none"> <li>- Are personnel wearing the correct PPE?</li> <li>- Is PPE in good condition?</li> <li>- Are there any complaints on the health of Employees</li> </ul>	<ul style="list-style-type: none"> <li>- SHE Rep, and Site Manager</li> </ul>	<ul style="list-style-type: none"> <li>Yes</li> <li>No</li> <li>N/A</li> </ul>	



**APPENDIX F:**

**INTERLOGIX NAMIBIA WALVIS BAY REGISTRATION CERTIFICATE**

**Walvis Bay**



**Municipality**

**REGISTRATION CERTIFICATE NO. 2012/4431**

**INTERLOGIX NAMIBIA (PTY) LTD**

is registered to carry on business as a

**CLEARING AGENCY, WAREHOUSE**

in accordance with the Local Authority Act 2000 (Act 29 of 2000) and the General Health Regulations 1969 (GN121 of 1969)  
Under the following conditions

Name of Owner: JASON FOURIE  
Name of Manager: ODETTE SMIT  
Business Address: P O BOX 4981, WALVIS BAY, NAMIBIA, 13013  
Street Address: 8, GREEN VALLEY AVENUE, WALVIS BAY  
Erf No: W4919

Receipt No.:  
81116756

Date of Registration:  
2021/07/12

Expiry Date:  
2022/07/11

**MUNICIPALITY OF WALVIS BAY**  
**BUSINESS REGISTRATION OFFICE**  
*D. DANIEL*  
*16 JUL 2021*  
**REGISTRATION OFFICER**  
**ENVIRONMENTAL HEALTH SECTION**  
**PRIVATE BAG 5017 TEL: 064 2073288**

Please note: This certificate does not exempt the holder of obtaining a permit or any other document which may be required by law imposed by other ministries. Any alteration of this certificate without the approval of the Registration Authority constitutes a criminal offence.

## APPENDIX G:

### EMERGENCY RESPONSE PLAN

Phone: +26464 203 522  
Fax: +264(0) 88 651 7243  
Email: [jason@interlogix.co.za](mailto:jason@interlogix.co.za)  
URL: [www.interlogix.co.za](http://www.interlogix.co.za)

Postal: Box 4981, Walvis Bay, Namibia  
Physical: 8 Green Valley Avenue, Industrial Area,  
Walvis Bay, Namibia

**Interlogix Namibia (Pty) Ltd**  
Reg. No.: 2012/0092



### EMERGENCY RESPONSE PLAN

**Company name:** INTERLOGIX NAMIBIA  
**Location:** 8 Green Valley avn. Walvis Bay  
**Date completed:** 2020/08/01

#### Emergency Operations Coordinator (EOC)

The emergency operations coordinator (EOC) is the person who serves as the main contact person for the company in an emergency. The EOC is responsible for making decisions and following the steps described in this emergency response plan. In the event of an emergency occurring within or affecting the worksite, the primary contact will serve as the EOC. If the primary contact is unable to fulfil the EOC duties, the secondary contact will take on this role.

##### Primary contact

Name: Jason Fourie  
Telephone number: 064 203 522  
Other phone number: 081 850 8222  
E-mail: [jason@interlogix.co.za](mailto:jason@interlogix.co.za)

##### Secondary contact

Name: Odette Smit  
Telephone number: 064 203 519  
Other phone number: 081 4553722  
E-mail: [adminNam@interlogix.co.za](mailto:adminNam@interlogix.co.za)

### **Emergency contact numbers**

Fire station: 081 122 0888  
Ambulance: 064 216 300  
Police: 10111  
Hospital: 064 216 300  
Hazchem response : 081 129 5017

### **Potential emergencies**

The following potential emergencies have been identified in hazard assessments:

1. Hazardous Chemical Spill
2. Bomb threat
3. Armed Robbery
4. Earthquake
5. Gas leak
6. Accident
7. Radioactive Cargo leak
8. Hijacking

### **Location of Emergency Equipment**

Fire alarm: all main exit doors  
Fire extinguisher: all main doors and outside the main exit door  
Fire hose: On both sides along the wall  
Panic alarm button: exit door  
Personal protective equipment (PPE): at the main exit door  
Emergency communication equipment: at all doors  
First Aid Kits: Main exit, Reception area  
Hazchem Spill kits: Main exit and at Bond Store exit

### **Training Requirements for Emergency Response**

Type of training: Hazchem, First Aid  
How often: Bi annually

## Employees trained in the use of emergency equipment

The following employees have received emergency equipment training:

Jason Fourie: Hazardous Chemicals, Spill response, Evacuation Warden

## Communications

We will communicate our emergency plans to employees in the following way:

- Via e mail
- Via weekly meetings
- Via monthly safety drills

In the event of a disaster, we will communicate with employees in the following way:

- PA system
- Loudhailer situated at the main exit
- Mobile phone if possible

## Procedures for Rescue and Evacuation

- We have developed these plans in collaboration with neighbouring businesses and building owners to avoid confusion or gridlock.
- We have located, copied, and posted building and site maps.
- We have ensured that exits are clearly marked.
- We will practice evacuation procedures 12 times a year.

## Warning System:

The warning system will be tested 6 times a year.

Assembly site: Main car park – Shelter location

The person responsible for issuing all clear: Evacuation wardens

A full set of Hazchem spill kits, PPE, First Aid kits are kept at the shelter location

We have talked to co-workers about which emergency supplies if any, the company will provide in the shelter location and which supplies individuals should consider keeping in a portable kit personalized for individual needs.

- When evacuating the premises this must be done in an orderly manner
- In the event of a robbery remain calm and do not provoke the attacker

In emergency accident situations remain calm, call for First aid wardens, then call for medical assistance

## Employee Emergency Contact Information

Employee name	Contact person and number	Alternate contact person and number
Jason Fourie	Bronwen Fourie 0818859174	Vanessa Spangehl 0818859164 Madelaine van der Merwe
Odette Smil	Pieter de Witt 0811495320	0811274100

Next Review: September 2022

## APPENDIX H:

### RISK ASSESSMENT TEMPLATE

Interlogix Namibia Warehouse will make use of this Risk Assessment Template to document a risk assessment to manage health and safety hazards and risks.

Activity description:	
Conducted by:	Date:

#### Step 1: Identify the hazards

<b>Biological (e.g. hygiene, disease, infection)</b>			
<input type="checkbox"/> Blood/bodily fluid	<input type="checkbox"/> Virus/disease	<input type="checkbox"/> Food handling	
Other/details:			
<b>Chemicals (note: refer to the label and safety data sheet (SDS) for the classification and management of all chemicals)</b>			
<input type="checkbox"/> Non-hazardous chemical(s)	<input type="checkbox"/> Hazardous chemical (refer to a completed hazardous chemical risk assessment)		
Name of chemical(s)/details:			
<b>Critical incident – resulting in:</b>			
<input type="checkbox"/> Lockdown	<input type="checkbox"/> Evacuation	<input type="checkbox"/> Disruption	
Other/details:			
<b>Energy systems – incident/issues involving:</b>			
<input type="checkbox"/> Electricity (incl. mains and solar)	<input type="checkbox"/> LPG gas	<input type="checkbox"/> Gas/pressurised containers	
Other/details:			
<b>Environment</b>			
<input type="checkbox"/> Sun exposure	<input type="checkbox"/> Water (creek, river, beach, dam)	<input type="checkbox"/> Sound/noise	
<input type="checkbox"/> Animals/insects	<input type="checkbox"/> Storms/weather	<input type="checkbox"/> Temperature (heat, cold)	
Other/details:			
<b>Facilities/built environment</b>			
<input type="checkbox"/> Buildings and fixtures	<input type="checkbox"/> Driveway/paths	<input type="checkbox"/> Workshops/work rooms	
<input type="checkbox"/> Playground equipment	<input type="checkbox"/> Furniture	<input type="checkbox"/> Swimming pool	
Others/details:			
<b>Machinery, plant and equipment</b>			
<input type="checkbox"/> Machinery (fixed plant)	<input type="checkbox"/> Machinery (portable)	<input type="checkbox"/> Hand tools	<input type="checkbox"/> Vehicles/trailers
Other/details:			
<b>Manual tasks/ergonomics</b>			
<input type="checkbox"/> Manual tasks (repetitive, heavy)	<input type="checkbox"/> Working at heights	<input type="checkbox"/> Restricted space	
Other/details:			
<b>People</b>			



<input type="checkbox"/> Students	<input type="checkbox"/> Staff	<input type="checkbox"/> Parents/others
<input type="checkbox"/> Physical	<input type="checkbox"/> Psychological/stress	
Other/details:		
<b>Other hazards/details:</b>		

## Step 2: Assess the level of risk

Consider the hazards identified in Step One and use the risk assessment matrix below as a guide to assess the risk level.

DoE Risk Management Matrix					
Likelihood	Consequence				
	Insignificant	Minor	Moderate	Major	Critical
Almost certain	Medium	Medium	High	Extreme	Extreme
Likely	Low	Medium	High	High	Extreme
Possible	Low	Medium	Medium	High	High
Unlikely	Low	Low	Medium	Medium	High
Rare	Low	Low	Low	Low	Medium

Consequence	Description of consequence
1. Insignificant	No treatment required.
2. Minor	Minor injury requiring first aid treatment (e.g. minor cuts, bruises, bumps).
3. Moderate	Injury requiring medical treatment or lost time.
4. Major	Serious injury (injuries) requiring specialist medical treatment or hospitalisation.
5. Critical	Loss of life, permanent disability or multiple serious injuries.

Likelihood	Description of likelihood
1. Rare	Will only occur in exceptional circumstances.
2. Unlikely	Not likely to occur within the foreseeable future, or within the project lifecycle.
3. Possible	May occur within the foreseeable future, or within the project lifecycle.
4. Likely	Likely to occur within the foreseeable future, or within the project lifecycle.
5. Almost certain	Almost certain to occur within the foreseeable future or within the project lifecycle.


Assessed risk level		Description of risk level	Actions
<input type="checkbox"/>	Low	If an incident were to occur, there would be little likelihood that an injury would result.	Undertake the activity with the existing controls in place.
<input type="checkbox"/>	Medium	If an incident were to occur, there would be some chance that an injury requiring first aid would result.	Additional controls may be needed.
<input type="checkbox"/>	High	If an incident were to occur, it would be likely that an injury requiring medical treatment would result.	Controls will need to be in place before the activity is undertaken.
<input type="checkbox"/>	Extreme	If an incident were to occur, it would be likely that a permanent, debilitating injury or death would result.	Consider alternatives to doing the activity. Significant control measures will need to be implemented to ensure safety.

## Step 3: Control the risk

In the table below:

1. List the hazards/risks you identified in Step One.
2. Rate their risk level (refer to information contained in Step two to assist with this)
3. Detail the control measures you will implement to eliminate or minimise the risk.

Note: control measures should be implemented in accordance with the preferred **hierarchy of control**. If lower level controls (such as administration or PPE) are to be implemented without higher level controls, it is important the reasons are explained.

Hierarchy of controls	
Most effective (High level)    Least effective (Low level)	<b>Elimination:</b> remove the hazard completely from the workplace or activity.
	<b>Substitution:</b> replace a hazard with a less dangerous one.
	<b>Redesign:</b> changing a machine or work process to make it safer.
	<b>Isolation:</b> separate people from the source of the hazard.
	<b>Administration:</b> putting rules, signage or training in place to make a workplace safer.
	<b>Personal protective equipment (PPE):</b> protective clothing and equipment.

### Hazards/risks and control measures

1. Description of hazards/risks	2. Risk level	3. Control measures (Note: if only administration or PPE controls are used, please explain why)

Other details:		

<b>Submission</b>	
This activity will be conducted in accordance with this risk assessment, implementing the control measures outlined in Step Three. Changes will be made to the activity, if required, to manage any emerging risks to ensure safety.	
<b>Contact person:</b>	<b>Date:</b>
Indicate those others involved in the preparation of this risk assessment:	

#### Step 4: Monitor and review controls

Complete during and/or after the activity	Yes	No
1. Are the planned control measures sufficient and effective in minimising the level or risk?	<input type="checkbox"/>	<input type="checkbox"/>
2. Have there been any changes to the planned control measures?	<input type="checkbox"/>	<input type="checkbox"/>
3. Are further control measures required in future?	<input type="checkbox"/>	<input type="checkbox"/>
Details:		
Review completed by:	Designation:	
Signature:	Date:	

# ABRIDGED CURRICULUM VITAE –

**Ms. HM HAMUKWAYA**

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**Profession:** Environmental Consultant / Specialist

**Specialization:** Environmental Management; Strategic environmental advice; Environmental compliance advice & monitoring; Environmental Impact Assessments; Policy, strategy & guideline formulation; Project Management; General Ecology

**Years' experience:** 10-plus years in the environmental field

## **KEY RESPONSIBILITIES**

Provide technical input for projects in the environmental management field, specializing in Strategic Environmental Advice, Environmental Impact Assessment studies, environmental permitting, public participation, Environmental Management Plans and Programs, environmental policy, strategy and guideline formulation, and integrated environmental management. Key focus on integration of the specialist environmental studies and findings into larger engineering-based projects, strategic assessment, and providing practical and achievable environmental management solutions and mitigation measures. Responsibilities for environmental studies include project management; review and manipulation of data; identification and assessment of potential negative environmental impacts and benefits; review of specialist studies; and the identification of mitigation measures. Compilation of the reports for environmental studies is in accordance withal relevant environmental legislation. Undertaking of numerous environmental management studies has resulted in a good working knowledge of environmental legislation and policy requirements. Recent projects have been undertaken for both the public-and private-sector, including compliance advice and monitoring, electricity generation and transmission projects, various types of linear developments (such as National Roads, local roads and power lines), waste management projects (landfills), mining rights and permits, policy, strategy and guideline development, as well as general environmental planning, development and management.

## **SKILLS BASE AND CORE COMPETENCIES**

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- Project management for a range of projects
- Identification and assessment of potential negative environmental impacts and benefits through the review and manipulation of data and specialist studies
- Identification of practical and achievable mitigation and management measures and the development of appropriate management plans

- Compilation of environmental reports in accordance with relevant environmental legislative requirements
- External and peer review of environmental reports & compliance advice and monitoring
- Formulation of environmental policies, strategies and guidelines
- Strategic and regional assessments; pre-feasibility & site selection
- Public participation processes for a variety of projects
- Strategic environmental advice to a wide variety of clients both in the public and private sectors
- Working knowledge of environmental planning processes, policies, regulatory frameworks and legislation

## **EDUCATION AND PROFESSIONAL STATUS**

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### **Degrees:**

- M.Sc. in Botany, University of the Witwatersrand, Johannesburg
- B.Sc. Geography, Archaeology and Environmental Studies, University of the Witwatersrand
- Diploma Project Management Foundations, University of Cape Town (UCT)
- Occupational Health and Safety, University of Cape Town (UCT)

## **EMPLOYMENT**

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- **2006 / 2010:** Independent specialist environmental consultant - Savannah Environmental (Pty) Ltd, South Africa
- **2011 / 2015:** Senior Environmental Scientist; Environmental Management and Project Management: Bohlweki Environmental, Republic of South Africa
- **2017 to date:** Associate – Erongo Consulting Group, Republic of South Africa

## **PROJECT EXPERIENCE UNDER ERONGO CONSULTING GROUP**

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<b>PROPONENT</b>	<b>PROJECT NAME / TITLE</b>
<b>Namibia Broadcasting Corporation (NBC) / Associates</b>	Digital Terrestrial Television Infrastructure Rollout Project of Namibian Broadcasting Corporation (NBC) Year 3 & 4
<b>Nkurenkuru Town Council</b>	Township and Related Infrastructure Establishment - Portion B of the remainder of the Farm Nkurenkuru Townlands No. 1346, comprising of 312 Erven and remainder to be known as Nkurenkuru Ext 6 & 7
<b>Nkurenkuru Town Council / Associates</b>	Township establishment - Portion A of the Remainder of the Farm Nkurenkuru Townlands No. 1346, comprising of 358 Erven and remainder to be known as Kahenge Extension 2:
<b>Otjiwarongo Municipality / Associates</b>	Township and Related Infrastructure Establishment - Consolidated Portion A (Comprising of Portion 1/18, Portion 7/18 and Portion 8/18) comprising of 70 Erven & remainder to be known as Whale Rock Lifestyle Estate, Otjiwarongo, Namibia
<b>Paratus Telecoms, Namibia / Team Leader</b>	Installation Of Optic Fibre Network around Windhoek, Namibia



<b>Skorpion Zinc Mine, Rosh Pinah / Team Member</b>	De-watering & Disposal of Underground Water from the Skorpion Zinc Open Pit
<b>Swakopmund Municipality</b>	Township Establishment and Related Infrastructure on Portion A, now Portion 272 (Block 1), Remainder of Portion B of Swakopmund Town and Townlands No. 41
<b>Swakopmund Municipality</b>	Township Establishment and Related Infrastructure on Erf 607, Remainder of Portion 5 of Swakopmund Town & Townlands No. 41
<b>Swakopmund Municipality</b>	Creation Of A Public Road, Northern Development, Swakop Town & Townlands No. 41
<b>Swakopmund Municipality</b>	Construction Of Potable Water Reservoir & Related Infrastructure on Smallholdings Farm, Swakopmund Town & Townlands No. 41
<b>Swakopmund Municipality</b>	Township and Related Infrastructure Establishment – Northern Development East of Henties Bay Road of Swakopmund Town and Townlands 41
<b>Swakopmund Municipality</b>	Rezoning of Erf 2226 from Public Open Space to Institutional, Swakopmund Town and Townlands 41
<b>Swakopmund Municipality</b>	Closure & Rezoning of Erven 379, 402, 403, 404 and 410 from Public Open Spaces to Private Open Spaces, Swakopmund Proper, Namibia
<b>Sekamee Vandu Investment</b>	Rezoning of Erf 6288 from Public Open Space to Institutional, Kuisebmond, Walvis Bay
<b>Tsumeb Municipality / Associates</b>	Township and Related Infrastructure Establishment - Portion 22/737 of Tsumeb Townlands, Tsumeb, Otjikoto Region, Namibia
<b>Tsumeb Municipality / Associates</b>	Township Establishment of Tsumeb Ext 14 and 15.
<b>Dunes Lifestyle (Pty) Ltd</b>	Creation of Public Street, Subdivision: Erf 4511 Walvis Bay Extension 12
<b>NAMCOL</b>	Permanent Closure of Erf 7503 as a Public Open Space & Subsequent Consolidation with Erf 7442, Kuisebmond Extension 6, Walvis Bay, Namibia
<b>Mr. Möwes</b>	Proposed Township Establishment on Portion A of Farm Volmoed No, 1000, Located some 75Km South East of Windhoek, Namibia
<b>Stewart Planning / Associates</b>	Rezone Erf 6 Nathaniel Maxuilli Avenue, Kuisebmond from "Single Residential" (1:150m 2) To "Local Business"
<b>Ramos Realtors</b>	Rezoning Of Erf 2984 from "Single Residential" To "Local Business", Kuisebmond, Walvis Bay District, Erongo Region, Namibia
<b>Stewart Planning</b>	Subdivision / Township and Related Infrastructure Establishment : Erf 4451 Walvis Bay Extension 12
<b>Ramos Realtors</b>	Traffic Impact Assessment - Erf 2984 Kuisebmond, Walvis Bay
<b>Welwichia Investments CC</b>	Proposed Oil Facility & Shopping Complex – On Portion In Oshitambi, Onekwaya West, Ohangwena
<b>Elina Nekulu Ndilimeke Elias</b>	Exploration Activities On EPL 5487 Located In Lüderitz, Namibia
<b>Dreamland Investment CC</b>	Development Of The Tiles Factories On Erf 8, Karibib Extension 6, Industrial, Erongo Region, Namibia
<b>Namibia Training Authority (NTA) / Associates</b>	Establishment Of The Nkurenkuru Vocational Training Centre & Related Infrastructure, Nkurenkuru, Kavango West
<b>Coca-Cola Namibia Bottling Company / Associates</b>	Operation Of The Consumer Fuel Installation, Windhoek, Namibia
<b>Outjo Municipality</b>	Subdivision Of Erf 97, Etoshpoort, Outjo Townlands, Outjo, Namibia

<b>Mr. Markus Ndara</b>	Small Scale Semi-Precious Stones Mining On Farm 48, Otjimbojo Ost, Karibib District, Erongo Region
<b>Radial Truss Industries Namibia (Pty) Ltd / Associates</b>	Erection Of PV Solar Plant At Khorixas, Kunene Region, Namibia
<b>Tsumeb Municipality / Associates</b>	Township & Related Infrastructure Establishment On Consolidated Portion A (Comprising Of Portion 1/18, Portion 7/18 & Portion 8/18) Comprising Of 70 Erven And Remainder To Be Known As Whale Rock Life Style Estate, Namibia
<b>Nkurenkuru Town Council / Associates</b>	Township & Related Infrastructure Establishment & Layout Approval On Portion B Of The Remainder Of The Farm Nkurenkuru Townlands No. 1346 Comprising of 312 Erven & Remainder To Be Known As Nkurenkuru Extension 6 & 7, Nkurenkuru, Kavango West Region, Namibia
<b>Mwaka Integrated Farming</b>	Integrated Animal & Crop Farming at Mubiza Village, Katima Mlilo, Namibia
<b>Mbulelo International</b>	Standard & World Class Recycling Plant @ Khorixas, Namibia
<b>IPBF Windhoek</b>	Township Development - Erven Re/6 & Re/236, Klein Windhoek, Namibia
<b>Erongo Red</b>	Rural Electrification Of Tatamutsi Area With 96 Dwellings In Uis District, Erongo Region
<b>Erongo Red</b>	Rural Electrification Of Goagomes In The Okombane Area With 41 Dwellings, Erongo Region
<b>Erongo Red</b>	Proposed OHL Route (About 12km) From Ruby Intake Station To Farm 37 Site
<b>Conzales Mining Inv CC</b>	Khorixas Base Metal Mining – Claims 68157 – 68166
<b>Muriels Investment CC / GEMM</b>	Khorixas Base Metal Mining – Claims 68167 – 68176
<b>Golden Empire Mineral Mining</b>	Khorixas Base Metal Mining – Claims 70703 – 70712
<b>J s Architects</b>	JSA 448 Rundu Private Hospital Construction (Closure Of Street Portion), Rundu,
<b>Seaflower Group of Companies / Associates</b>	Proposed Upgrade And Operation Of A Warehouse In Lüderitz,   Kharas Region, Namibia