

	<p style="text-align: center;"><b>Standard</b></p>	<p style="text-align: center;"><b>Distribution</b></p>
---	--	--

Title: **GENERIC ENVIRONMENTAL MANAGEMENT PROGRAM FOR OPERATION AND MAINTENANCE** Document Identifier: **240-71555378**

Alternative Reference Number: **N/A**

Area of Applicability: **Distribution Division**

Functional Area: **Environmental Management**

Revision: **1**

Total Pages: **33**

Next Review Date: **November 2025**

Disclosure Classification: **Controlled Disclosure**

**Compiled by**



**M.E Molepo**

**Senior Environmental Advisor: Dx Office of the GE, SHEQS**

Date: 14 October 2021

**Functional Responsibility**



**R Kruger**

**Senior Manager SHEQS; Dx Office of the GE**

Date: 14 October 2021

**Authorized by**



**G Kgabo**

**General Manager: BSE/OGE: Dx Office of the GE**

Date: 15 October 2021

<b>Table of Contents</b>	<b>Page</b>
1. Introduction.....	4
2. Supporting clauses .....	4
2.1 Scope.....	4
2.1.1 Purpose.....	4
2.1.2 Applicability .....	5
2.2 Normative/informative references .....	5
2.2.1 Normative.....	5
2.3 Definitions .....	5
2.3.1 General .....	5
2.3.2 Disclosure classification.....	6
2.4 Abbreviations .....	7
2.5 Roles and responsibilities.....	7
2.6 Process for monitoring.....	7
2.7 Related/supporting documents .....	7
3. General Environmental Aspects to be addressed in the Environmental Management Program for Power Lines .....	7
3.1 Physical Environment.....	7
3.1.1 Air quality: Dust and Fire Breaks .....	7
3.1.2 Erosion .....	8
3.1.3 Littering .....	8
3.1.4 Maintenance of Access roads.....	8
3.1.5 Access & Damage to Properties .....	8
3.1.6 Maintenance of Vehicles.....	8
3.1.7 Water Quality.....	9
3.1.8 Wet Areas .....	9
3.2 Biological Environment.....	10
3.2.1 Fauna .....	10
3.2.2 Flora .....	10
3.3 Social Environment .....	11
3.3.1 Interaction with Landowners .....	11
3.3.2 Graveyards.....	11
3.3.3 Monuments.....	11
3.3.4 Farmhouses and other buildings.....	12
3.3.5 Infrastructure .....	12
4. General Environmental Aspects to be addressed in the Environmental Management Program for Substations and CNC sites. ....	12
4.1 Physical Environment.....	12
4.1.1 Access & Damage to Properties .....	12
4.2 Water .....	12

**CONTROLLED DISCLOSURE**

4.3	Air quality: Dust and Fire Breaks .....	13
4.4	Waste Management .....	13
4.5	Herbicides and Pesticides .....	13
4.6	Biological Environment .....	14
4.6.1	Plant and Animal Species .....	14
4.7	Social Environment .....	14
4.7.1	Social Aspects .....	14
5.	Authorization .....	14
6.	Revisions .....	14
7.	Development team .....	15
8.	Acknowledgements .....	15
	Annex A – Impact assessment .....	16
1	Guidelines .....	16
2	Critical points .....	16
3	Implementation time-frame .....	16
4	Buyer’s guide and power office .....	17
5	CAP/LAP pre-qualification process-related impacts .....	17
6	Training or communication .....	18
7	Special tools, equipment, software .....	18
8	Finances .....	18
	Annex B – Powerline EMP Checklist .....	19
	Annex C – Substation EMP Checklist .....	22
	Annex D – CNC’s Environmental Management Plan Guide .....	25

**CONTROLLED DISCLOSURE**

## **1. Introduction**

The Environmental Management Program (EMP) Procedure aims at addressing generic environmental aspects and impacts associated with Distribution business activities. It further serves as a guiding document for addressing possible environmental impacts.

In terms of Section 28 of the National Environmental Management Act “Every person who causes has caused or may cause significant pollution or degradation of the environment must take reasonable measures to prevent such pollution or degradation from occurring, continuing or recurring”.

## **2. Supporting clauses**

### **2.1 Scope**

#### **2.1.1 Purpose**

This generic Environmental Management Program proposes to be a master plan for all powerlines and substations to which specific environmental requirements may be added and environmental management program can be adapted according to regional requirements, needs and specifications.

An Environmental Management Program (EMP) can be defined as a plan of action which sets out a desired environmental end state and sets out how activities, that could have a negative impact on the environment, will be managed, monitored and impacted areas rehabilitated.

It provides general guidelines to assist Zones in their compliance with Eskom environmental standards for the operation and maintenance of all existing Distribution powerlines and substations. Section 3 of the procedure specifically deals with impacts associated with powerlines and section 4 deals with impacts associated with substations and CNC sites. The powerline environmental management program checklist has been provided in Annexure B and the substation environmental management program checklist in annexure C, whereas a CNC environmental management program guide is provided in annexure D.

The purpose of an Environmental Management Programme (EMP) is to ensure that:

- There is a process to identify existing negative environmental impacts or to predict potential environmental impacts;
- Monitoring schedule is established to identify potential negative environmental impacts associated with the site (bird and animal electrocutions, soil erosion, vegetation control, oil pollution, herbicide sterilisation, storm water, visual impact, solid waste management etc.);
- Objectives and targets are set to ensure negative impacts are mitigated and existing impacts rehabilitated. Mitigate mean to implement practical measures to reduce adverse impacts or enhance beneficial impacts of an action;
- Resources are allocated to each target;
- Roles and responsibilities are specified and clarified; and
- Plans of action (mitigation measures) are implemented to avoid or minimise the identified negative environmental impacts (construction of storm water berms and rehabilitation of eroded areas, weed eradication – mechanical/chemical, bioremediation of oil spills, vegetation species switching, planting of vegetation or construction of perimeter walls for screening etc) as well as to enhance the positive impact on the environment.

**CONTROLLED DISCLOSURE**

Monitoring programme or schedule is developed to track the plans of action that have been implemented to avoid or minimise the environmental impacts to ensure the effectiveness of the plan.

### **2.1.2 Applicability**

This document shall apply throughout Eskom Holdings Ltd Distribution Division, to all distribution employees and contractors/ suppliers.

## **2.2 Normative/informative references**

Parties using this document shall apply the most recent edition of the documents listed below:

### **2.2.1 Normative**

ISO 9001 Quality Management Systems.

EPL 32-727 SHEQ Policy

EPL 32-736 Land and Biodiversity Management Policy

ESTD 32-815 Land and Biodiversity Standard

32-245 Waste Management Standard

DST\_34-132 - Fire Risk Management

DST\_34-315 - Emergency Preparedness

240-133087117: Procedure for the Environmental Incident Management Procedure

ISO 14001 Environmental Management Systems.

32-829: Wildlife Interaction Management Standard

### **2.2.2 Informative**

Constitution of South Africa Act, No 108 of 1996

National Environmental Management Act of South Africa (Act 107 of 1998)

National Forest Act (Act 84 of 1998)

SANS 0290: 2008: Mineral oils – management and handling of PCB

DPC\_34-926 - Procedure for Environmental Assessment of Reticulation and Sub-transmission Projects

## **2.3 Definitions**

### **2.3.1 General**

<b>Definition</b>	<b>Description</b>
-------------------	--------------------

**CONTROLLED DISCLOSURE**

<b>Definition</b>	<b>Description</b>
<b>Environment</b>	The surroundings within which humans exist and that are made up of <ul style="list-style-type: none"> <li>• the land, water and atmosphere of the earth;</li> <li>• micro-organisms, plant and animal life;</li> <li>• any part or combination of a) and b) and the interrelationships among and between them and; the physical, chemical, aesthetic and cultural properties and conditions of the foregoing that influence human health and wellbeing. (National Environmental Management Act 107 of 1998)</li> </ul>
<b>Environmental Aspect</b>	Elements of an organisation's activities, products and services which can interact with the environment. (SANS ISO 14001)
<b>Environmental Impact</b>	Any change to the environment, whether adverse or beneficial, wholly or partially resulting from an organisation's activities, products and services. (SABS ISO 14001). A significant environmental aspect is an environmental aspect that has or can have a significant environmental impact.
<b>Environmental Management Program</b>	A program that seeks to achieve a required end state of the environment and describes how activities that could have a negative impact will be managed and monitored and how impacted areas will be rehabilitated.
<b>Eskom Land</b>	Any land and / or servitude registered in the Deeds Office in Eskom's name.
<b>Mitigate</b>	The implementation of practical measures to reduce adverse impacts or enhance beneficial impacts of an action.
<b>Monitor</b>	An activity that ensures to reduce adverse impacts or enhance beneficial impacts of an action.
<b>Pollution</b>	The direct and indirect alteration of the physical, chemical or biological properties of a natural resource that results in it being less fit for any beneficial purpose for which it may reasonably be expected to be sued.
<b>Waste</b>	An undesirable or superfluous by-product, emission or residue of any process or activity that has been discarded, accumulated or been stored for the purpose of discarding or processing. It may be gaseous, liquid or solid or any combination thereof and may originate from a residential, commercial or industrial area. This definition includes industrial waste, water, sewage, radioactive substances, mining, metallurgical and power generation waste (GN 227, GG20978, 17 March 2000, White Paper on Integrated Pollution and Waste Management for South Africa)

### **2.3.2 Disclosure classification**

**Controlled disclosure:** controlled disclosure to external parties (either enforced by law, or discretionary).

**CONTROLLED DISCLOSURE**

## **2.4 Abbreviations**

<b>Abbreviation</b>	<b>Description</b>
<b>EMP</b>	Environmental Management Program
<b>PCB</b>	Polychlorinated Biphenyls
<b>DFFE</b>	Department of Forestry, Fisheries and the Environment
<b>DWS</b>	Department of Water and Sanitation
<b>EO</b>	Environmental Officer
<b>EA</b>	Environmental Authorisation
<b>EAd</b>	Environmental Advisor
<b>M&amp;O</b>	Maintenance and Operation
<b>OU</b>	Operational Unit

## **2.5 Roles and responsibilities**

Line Managers/Environmental Practitioner must ensure that the relevant information in this procedure is communicated to all Eskom employees, contractors (where necessary) and temporary employment service providers and any other person involved in Eskom's activities to which this procedure applies.

## **2.6 Process for monitoring**

Regular audits and inspections should be undertaken to verify conformance to this procedure.

## **2.7 Related/supporting documents**

This document supersedes DPC003.

## **3. General Environmental Aspects to be addressed in the Environmental Management Program for Powerlines**

### **3.1 Physical Environment**

#### **3.1.1 Air quality: Dust and Fire Breaks**

Burning of waste material such as vegetation and materials resulting from maintenance activities at the site is strictly prohibited.

Where fire breaks are necessary and if possible, they should be planned in conjunction with relevant landowners and performed in accordance with the conditions of the fire management plans of the region. Erosion in fire breaks should be prevented.

No fires are to be made on Eskom properties, private property or within the line servitude.

**CONTROLLED DISCLOSURE**

### **3.1.2 Erosion**

Naturally occurring erosion on the servitude should be repaired and further erosion prevented. Erosion outside the servitude that was not caused by operation or maintenance activities is the responsibility of the landowner. If, however, operation and maintenance activities have caused erosion outside the servitude, it is the responsibility of Eskom to repair it and prevent further erosion damage.

### **3.1.3 Littering**

No littering shall take place on the servitude. Burning of waste material such as vegetation and old cleaning materials resulting from maintenance activities at the site is strictly prohibited.

### **3.1.4 Maintenance of Access roads**

All conditions that the landowner may have shall be noted and adhered to. All vehicle movement shall be along existing roads and access tracks. Vehicles should be driven at moderate speeds and special care should be taken especially in wet weather to avoid eroding tracks. Multiple tracks are to be avoided at all times

If Eskom is the only user of these access roads, then the maintenance of the access road shall be the sole responsibility of Eskom. Damage to access roads due to the movement of vehicles must be reported to Eskom and the landowner. All repairs must be done and to the satisfaction of the landowner. Written proof of satisfaction must be obtained.

No fences or gates are to be lowered, cut, removed or damaged in any way. Leave private gates, as they are found open or closed.

### **3.1.5 Access & Damage to Properties**

All damage done to property must be reported to Eskom and the landowner. Repairs to the damage must be done.

Do not interfere with stock, crops or activities on the property. No wandering around properties whatsoever.

### **3.1.6 Maintenance of Vehicles**

Servicing of vehicles in the veld is strictly prohibited. Only emergency repairs shall be allowed in the line servitude. In the event of a breakdown in the veld, any oil spills shall be cleaned up immediately.

The following shall apply:

- a) All contaminated soil shall be removed and placed in containers. Contaminated soil can be taken to one central point where bio-remediation can be done if applicable or disposed at the registered hazardous landfill site. Where possible bio-remediation may be done on site for minor oil spills or contaminations.
- b) Major spills can be treated on site. Where disposal is required or necessary, it should be done at a registered hazardous landfill site.
- c) All oil spills (including those from pole-mounted transformers, see Oil Spills in this section) shall be reported according to 240-133087117: Procedure for the Environmental Incident Management Procedure, within a period of 24 hours. The Environmental Officer will assist in the statutory reporting to authorities where necessary and applicable.

**CONTROLLED DISCLOSURE**

### **3.1.6.1 Oil spills**

All oil spills from pole-mounted transformers should be treated as PCB contaminated spills. The necessary precautions as specified in the Eskom Procedure for Waste Management (32-245) should be completed.

The term PCB is a generic name for a group of fire resistant dielectric fluids and synthetic insulating liquids composed of polychlorinated biphenyls, sometimes with the addition of polychlorinated benzenes. PCB is commonly known by various brand names. These include Askarel, Chlorectol, Elemex, Inerteen and Pyranol. PCB may cause certain skin conditions and liver damage. Furthermore PCB is not biologically degradable and therefore tends to be passed on through the food chain, creating major environmental pollution and health hazards. PCB produces hazardous by-products under combustion.

In the event of an oil spill, the spill must be reported to relevant authorities only when there is contamination of surface or ground water. The incident must be reported according to the Procedure for the Environmental Incident Management Procedure 240-133087117 within a period of 24 hours.

### **3.1.7 Water Quality**

In accordance with the requirements of the Water Act, surface and ground water shall not be polluted or contaminated (oil, petrol, herbicides, ash, dust etc.) under any circumstances. Storm water shall be managed to ensure that it does not become polluted.

All *hazardous substances* at the site shall be adequately stored and accurately identified, recorded and labelled (ex. Polychlorinated Biphenyl's – PCB /Askarel) (32-245). All hazardous waste shall be disposed of at a licensed site and safe disposal certificates must be kept as records. This applies to the oil in pole-mounted transformers that can leak and pose an environmental risk. All water contaminated by oil spills is to be reported to the Department of Water and Sanitation where applicable. Furthermore report according to the Environmental Incident Management Procedure, 240-133087117 within a period of 24 hours.

### **3.1.8 Wet Areas**

**Rivers:** No roads shall cut through river- and stream banks as this may lead to erosion causing siltation of streams and downstream dams. Existing drifts and bridges may be used with the consent of the landowner. Such structures shall then be thoroughly examined for strength and durability before they are used. New drifts and bridges or roads shall only be constructed with the approval of Eskom and the landowner and at the discretion of the Farmer Liaison Officer.

**Permanently wet areas (Vlei, pan etc.):** These areas will be shown on the profiles. No vehicular traffic shall be allowed in such areas. Only existing roads through such areas may be used with the approval of Eskom and the landowner. No equipment that can cause irreparable damage to wet areas shall be used.

**Storm water run-off** must be managed effectively in areas where it may negatively impact on the structures of power lines as well as to avoid storm water damage and erosion to adjacent properties. Drainage systems also need to be kept clean from debris at all times.

Measures should be implemented to ensure that run-off water on the servitude does not run into dongas and cause an erosion hazard

**CONTROLLED DISCLOSURE**

## 3.2 Biological Environment

### 3.2.1 Fauna

**Birds:** Interactions of birds with power lines should be prevented by the application of for example bird flight diverters in sensitive areas where identified for such use. All bird-power line interactions must be reported, recorded and investigated. After action has been implemented to solve the problem, it must be followed-up to assess the effectiveness of the remedial measures taken.

**Other:** Protected or endangered animal species occurring on Eskom servitudes must be identified and protected from Eskom's operation and maintenance activities. No animals may be killed on private property.

In areas where giraffes occur, the height of power lines should be adjusted accordingly following the correct Asset Creation value chain. Landowners should inform Eskom of any change in the type of species that might interact with the Eskom line. Rock packs could also be put around the poles to prevent Rhino and Elephant from pushing the poles over. It will be advisable to only implement these mitigation measures in areas where the animals occur.

### 3.2.2 Flora

**Indigenous trees:** Protected or endangered tree species occurring on Eskom servitudes must be identified. Permits must be obtained from the relevant Department of Forestry, Fisheries and the Environment (DFFE) for the felling of protected trees.

**Bush clearing:** The objective of bush clearing is to trim, cut or clear the minimum number of trees and bush necessary for the safe electrical operation of the power line. Bush clearing shall be done in accordance with the Eskom Procedure for vegetation clearance and maintenance within overhead powerline servitudes and on Eskom owned land 240-70172585 (32-247). All trees and bush cleared from the servitude shall be cut into manageable lengths (1m), and neatly stacked at regular intervals along the line. This wood is available to the landowner and/or local community for their personal use.

No bush clearing shall be allowed on river-and stream banks. No bulldozer shall be allowed for bush clearing.

**Economically valuable trees:** The removal of any economically valuable trees or bush shall be negotiated with the landowner before such plants are removed.

**Herbicide usage:** Only Eskom approved chemicals must be used in the control of weeds and pests. The application shall be according to set specifications, the manufacturer conditions must not be deviated from. Herbicides may only be applied by a qualified Herbicide Applicator who is in possession of a Herbicide Applicators' Licence. The possibility of leaching into the surrounding environment shall be properly investigated and only environmentally friendly herbicides shall be used.

A register shall be kept of all herbicides and pesticides that are administered. If ever there is any doubt as to the use of a specific chemical, an expert should be consulted.

Qualified registered personnel must do application only – under the conditions as set in the Eskom guide lines.

**CONTROLLED DISCLOSURE**

### **3.3 Social Environment**

#### **3.3.1 Interaction with Landowners**

The success of any operation depends largely on good relations with the landowners. All negotiations for any reason shall be between Eskom and the landowner. No verbal agreements shall be made and all agreements shall be recorded properly. All parties shall co-sign the agreement.

The landowners shall be informed of any changes in operation and maintenance programmes, should it affect them. The Eskom contact numbers shall be made available to the landowner to ensure open channels of communication and prompt response to any queries or claims

Property owners and local residents must be treated with respect and courtesy at all times. The culture and lifestyle of the community living in close proximity to the site and work site must be respected. The rights of the landowners shall be respected at all times and all staff shall be sensitised to the effect that they are working on private property.

Environmental clauses must be included in contract documents for all contractors. All complaints must be reported, recorded and investigated.

All the conditions that the landowner may have should be noted and adhered to. Access will only be allowed to Eskom personnel with gate keys.

Fences or gates of landowners shall not be damaged when gaining access to the servitude. The condition of Eskom gates and locks shall be regularly monitored to ensure that they are secure (i.e. to prevent livestock getting in or out as well to prevent unauthorised access). Gates shall be kept as found i.e. either open or closed.

**Agricultural goods:** Pilfering (removal) of agricultural goods (crops, livestock, firewood etc.) and poaching is prohibited. Receipts shall be given for any merchandise purchased or received from landowners.

All damage done to property must be reported to Eskom and the landowner. Repairs to the damage must be done. Damaged ground surfaces, due to vehicle movement, must be repaired to the satisfaction of the landowner, written proof must be obtained.

Do not interfere with stock, crops or activities on the property. No wandering around properties whatsoever.

#### ***Cultural Environment (Archaeology)***

Graves, archaeological sites and sites of historical interest in close proximity to an Eskom site or other work site must be protected and treated with respect. These areas shall be avoided during operation and maintenance activities. No artefacts shall be removed under any circumstances.

#### **3.3.2 Graveyards**

Graveyards may not be intruded and or disturbed during operation and maintenance activities.

#### **3.3.3 Monuments**

Sites of historical interest in close proximity to the Eskom servitude shall be protected and treated with respect (National Heritage Resources Act 25 of 1999)

**CONTROLLED DISCLOSURE**

### **3.3.4 Farmhouses and other buildings**

Eskom personnel shall not intrude upon the private property of landowners. If and where the line crosses an inhabited area, the necessary precautions shall be taken to safeguard the lives and property of the inhabitants during operation and maintenance activities.

### **3.3.5 Infrastructure**

The integrity of existing structures shall be protected during operation and maintenance activities.

## **4. General Environmental Aspects to be addressed in the Environmental Management Program for Substations and CNC sites.**

### **4.1 Physical Environment**

#### **4.1.1 Access & Damage to Properties**

All vehicle movement must be along existing roads and access tracks. Vehicles should be driven at moderate speeds and special care should be taken to avoid eroding tracks especially in wet weather. In circumstances where access is limited to the servitude, a single track/road is to be used. Multiple tracks are to be avoided at all times.

No fences or gates that provide access to the substation and CNC yard, is to be lowered cut removed or damaged in any way. Leave private gates, as they are found open or closed. Investigate any irregularities concerning Eskom fences and gates for example an open gate or lowered fence. Eskom locks and gates must be regularly checked to ensure that they are still in working order.

Damaged ground surfaces, due to vehicle movement, must be repaired to the satisfaction of the landowner written proof must be obtained.

All damage done to property must be reported to Eskom and the landowner. Repairs to the damage must be done.

Do not interfere with stock, crops or activities on the property. No wandering around properties whatsoever.

The landscaping of the site is important. There should be looked at the aesthetics of the site, screening of the site using embankments, walls and/or vegetation and rehabilitation.

### **4.2 Water**

Under no circumstances must surface or ground water be polluted or contaminated by oil, petrol, cleaning material, herbicides etc. Adequate oil containment must be used, for example bund walls, oil catchment areas, oil drainage systems, holding dams and oil plinths.

All storm water runoff must be managed efficiently so as to avoid storm water damage and erosion to adjacent properties. Drainage systems also need to be kept clean from debris at all times.

In the event of an oil spill, the spill must be reported to the Department of Water and Sanitation if applicable, only when there is contamination of water resources.

The incident must be reported to the zone/ Sector Manager and local EMS representative and or Environmental Officer within a period of 24 hours (According to Procedure for the Environmental Incident Management Procedure: 240-133087117).

All un-classified oil spills should be treated as PCB contaminated spill. The term PCB is a generic name for a group of fire resistant dielectric fluids and synthetic insulating liquids composed of

**CONTROLLED DISCLOSURE**

polychlorinated biphenyls, sometimes with the addition of polychlorinated benzenes. PCB is commonly known by various brand names. These include Askarel, Chlorectol, Elemex, Inerteen and Pyranol. PCB may cause certain skin conditions and liver damage. Furthermore PCB is not biologically degradable and therefore tends to be passed on through the food chain, creating major environmental pollution and health hazards. PCB produces hazardous by-products under combustion.

In the event of an oil spill, the spill must be reported to Authorities if applicable, only when there is contamination of surface or ground water. The incident must be reported according to the Procedure for the Environmental Incident Management Procedure: 240-133087117, and follow the specified Operating Unit processes to ensure close-out.

### **4.3 Air quality: Dust and Fire Breaks**

Burning of waste material such as vegetation, domestic waste and old cleaning materials resulting from operation and maintenance activities at the site is strictly prohibited.

Fire breaks where necessary must be planned in conjunction with relevant landowners and performed in accordance with the conditions of the surrounding veld. Erosion and firebreaks must be guarded against and precautions taken. Tall weeds and grass in and around the CNC's, substations and along the stone fire walk need to be removed. No fires to be made in private property or within the substation area.

### **4.4 Waste Management**

Littering or illegal dumping of any waste material is prohibited; no waste disposal holes are to be made on the site. Provision must be made for the collection, separation and temporary storage of all waste materials.

All collected waste materials must be disposed of at a registered waste disposal site for example municipal dumping landfills or facilities which are registered.

All recyclable material should, were economically viable, be re-used, returned to the store or sold as scrap.

Proper toilet facilities must be provided at substations for field staff where practical.

Ensure that all hazardous substances at the site are adequately stored and accurately identified, recorded and labelled (MSDS) e.g. PCB's, Paints, Silica Gels etc.

Ensure that all waste hazardous substances are disposed of at a licensed disposal site. This must also be adhered to when dealing with contractors.

### **4.5 Herbicides and Pesticides**

Only Eskom approved chemicals must be used in the control of weeds and pests in CNC's and substations, and around the walking areas. The manufacturer conditions must not be deviated from.

Qualified registered personnel must do application only – under the conditions as set in the Eskom guide lines.

A register must be kept of the Herbicides and Pesticides applications.

## **CONTROLLED DISCLOSURE**

## **4.6 Biological Environment**

### **4.6.1 Plant and Animal Species**

Protected or endangered plant and animal species occurring on Eskom sites and servitude must be identified and protected from Eskom's activities or plant.

Permits must be obtained from the relevant Departments, for example DFFE for the felling, disturbance or cutting of protected trees.

Identify all animal fatalities due to the site infrastructure such as bird collisions and mammal electrocutions (such as Giraffes, Elephant, Rhinos etc and implement immediate action to minimise or avoid the problem. Wildlife interactions must be reported recorded and investigated and, after action is implemented to solve the problem, be followed-up to assess the effectiveness of the remedial measures taken.

## **4.7 Social Environment**

### **4.7.1 Social Aspects**

A list of the neighbouring properties, property owners' names, addresses and telephone numbers and land use should be drawn up where possible.

A plan of action should be concluded with the neighbouring property owners and the relevant authorities in the case of an emergency (veld fire, oil spill, water contamination etc.) An Eskom contact numbers must be clearly indicated on a board placed that it is visible.

Property owners and local residents must be treated with respect and courtesy at all times. The culture and lifestyle of the community living in close proximity to the site and work site must be respected.

Removal of agricultural products (sugar cane, fruit, vegetables, stock firewood) is prohibited. Receipts must be obtained for any merchandise purchased or received from landowners.

Environmental clauses must be included in contract documents for all contractors.

Graves, archaeological sites and sites of historical interest in close proximity to an Eskom site or other work site must be protected and treated with respect.

All complaints must be reported, recorded and investigated.

Eskom sites should be evaluated in terms of their contributions to noise pollution and actions implemented to ensure conformance to legal requirements and taking into consideration the views of adjacent land users / owners.

## **5. Authorization**

This document has been seen and accepted by the Distribution Environmental Advisory Committee (DEAC).

## **6. Revisions**

**CONTROLLED DISCLOSURE**

<b>Date</b>	<b>Rev.</b>	<b>Compiler</b>	<b>Remarks</b>
Sept 2021	1	ME Molepo	Review period
July 2019	1	MC Rapudi	Procedure/standard review was not finalised.
Nov 2013	Draft 0.1	MC Rapudi	Business Transformation and Legislation changes.
Sept 2006	0	Louise Human	Original issue as DPC0039.

## **7. Development team**

Distribution Environmental Advisory Committee

Rudi Kruger, Senior Manager: Dx Office of the GE, SHEQS

OUs Environmental Managers

## **8. Acknowledgements**

Ms Louise Human (former Land Development Manager), the original writer of the Environmental Management Plan Procedure and Ms Cate Rapudi (former Environmental Manager) are acknowledged. Inputs received from OU Environmental Managers are also appreciated.

**CONTROLLED DISCLOSURE**

**Annex A – Impact assessment**  
(Normative – for Eskom internal use only)

**1 Guidelines**

All comments must be completed.

Motivate why items are not applicable (n/a).

Indicate actions to be taken, persons or organizations responsible for actions and deadline for action.

Change control committees to discuss the impact assessment and, if necessary, give feedback to the compiler regarding any omissions or errors.

**2 Critical points**

**2.1** Importance of this document e.g. is implementation required due to safety deficiencies, statutory requirements, technology changes, document revisions, improved service quality, improved service performance, and optimized costs.

Comment:

**2.2** If the document to be released impacts on statutory or legal compliance, this needs to be very clearly stated and so highlighted.

Comment:

**2.3** Impact on stock holding and depletion of existing stock prior to switch over.

Comment:

**2.4** When will new stock be available?

Comment:

**2.5** Has the interchangeability of the product or item been verified, i.e. when it fails, is a straight swap possible with a competitor's product?

Comment:

**2.6** Identify and provide details of other critical (items required for the successful implementation of this document) points to be considered in the implementation of this document.

Comment:

**2.7** Provide details of any comments made by the Regions regarding the implementation of this document.

Comment: (n/a during commenting phase).

**3 Implementation time-frame**

**3.1** Time period for implementation of requirements.

Comment:

**3.2** Deadline for changeover to new item and personnel to be informed of DX wide changeover.

Comment:

**CONTROLLED DISCLOSURE**

**4 Buyer's guide and power office**

**4.1 Does the Buyer's Guide or Buyer's List need updating?**

Comment:

**4.2 What Buyer's Guides or items have been created?**

Comment:

**4.3 List all assembly drawing changes that have been revised in conjunction with this document.**

Comment:

**4.4 If the implementation of this document requires assessment by CAP, provide details under 0.**

**4.5 Which Power Office packages have been created, modified or removed?**

Comment:

**5 CAP/LAP pre-qualification process-related impacts**

**5.1 Is an ad hoc re-evaluation of all currently accepted suppliers required as a result of implementation of this document?**

Comment:

**5.2 If NO, provide motivation for issuing this specification before Acceptance Cycle Expiry date.**

Comment:

**5.3 Are ALL suppliers (currently accepted per LAP) aware of the nature of changes contained in this document?**

Comment:

**5.4 Is implementation of the provisions of this document required during the current supplier qualification period?**

Comment:

**5.5 If Yes to 0, what date has been set for all currently accepted suppliers to comply fully?**

Comment:

**5.6 If Yes to 0, have all currently accepted suppliers been sent a prior formal notification informing them of Eskom's expectations, including the implementation date deadline?**

Comment:

**5.7 Can the changes made, potentially impact upon the purchase price of the material/equipment?**

Comment:

**5.8 Material group(s) affected by specification (refer to Pre-qualification invitation schedule for list of material groups).**

Comment:

**CONTROLLED DISCLOSURE**

**6 Training or communication**

**6.1 Is training required?**

Comment: (If NO, then 0 to 0 will be n/a.)

**6.2 State the level of training required to implement this document (e.g. awareness training, practical/on job, and module).**

Comment:

**6.3 State designations of personnel that will require training.**

Comment:

**6.4 Is the training material available? Identify person responsible for the development of training material.**

Comment:

**6.5 If applicable, provide details of training that will take place (e.g. sponsor, costs, trainer, schedule of training, course material availability, training in erection/use of new equipment, maintenance training).**

Comment:

**6.6 Was Technical Training Section consulted regarding module development process?**

Comment:

**6.7 State communications channels to be used to inform target audience.**

Comment:

**7 Special tools, equipment, software**

**7.1 What special tools, equipment, software, etc. will need to be purchased by the Region to effectively implement?**

Comment:

**7.2 Are stock numbers available for the new equipment?**

Comment:

**7.3 What will be the cost of these special tools, equipment, software?**

Comment:

**8 Finances**

**8.1 What total costs would the Regions be required to incur in implementing this document? Identify all cost activities associated with implementation, e.g. labour, training, tooling, stock, obsolescence.**

Comment: **Impact assessment completed by:**

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

**CONTROLLED DISCLOSURE**

**Annex B – Powerline EMP Checklist**

Model checklist for identification of environmental aspects (issues) and impacts on power line routes

Site (power line) name:.....

Responsible Person:.....

Assessor's name:..... Unique No:.....

Assessment date:.....

From tower No..... To tower No:.....

(Environmental issues identified shall be marked-up on a sketch or map of the power line)

<u>Environmental issue:</u>				<u>Impact</u>			
		<b>Pole No.</b>	<b>Description of problem</b>	<b>N/A</b>	<b>High</b>	<b>Med</b>	<b>Low</b>
<u>Access roads</u>	Centre line						
	Other						
<u>Bird interactions</u>	Collisions						
	Electrocutions						
	Pollution						
	Nests						
	Need for remedial action						
<u>Storm water drainage</u>	Natural						
	Berms						
	Channels						
	Pipes						
<u>Soil erosion</u>	Tower						
	Access road						
	River crossing						
	Other						
<u>Eskom gates</u>	General conditions						

**CONTROLLED DISCLOSURE**

<u>Environmental issue:</u>				<u>Impact</u>			
		<b>Pole No.</b>	<b>Description of problem</b>	<b>N/A</b>	<b>High</b>	<b>Med</b>	<b>Low</b>
	Closed and locked						
	Locks						
<u>Social activities under power-line</u>	Houses						
	Farming						
	Structures						
	Mining						
	Airfields						
	Power lines						
	Telephone lines						
	Other						
<u>Bush encroachment</u>	Clearance						
	Fire risk						
<u>Construction material</u>	Concrete						
	Steel work						
	Insulators						
	Conductor						
	General						
<u>Visual impact</u>							
<u>Alien/invader vegetation</u>	Access						
	Fire risk						
	Clearance						
	Spread						
<u>Soil type</u>	Sandy						
	Clay						
	Rocks						

**CONTROLLED DISCLOSURE**

<u>Environmental issue:</u>				<u>Impact</u>			
		<b>Pole No.</b>	<b>Description of problem</b>	<b>N/A</b>	<b>High</b>	<b>Med</b>	<b>Low</b>
<u>Protection of natural vegetation</u>	Protected Trees ( e.g marula, baobab etc)						
	Alien / weeds Vegetation						
<u>Fence crossings</u>	General conditions						
<u>Lightning</u>							
<u>Archaeological/historical/natural heritage/cultural sites</u>							
<u>River crossings</u>							
<u>Complaints/requests from land owners</u>							
<u>Radio/TV interference</u>							

**Sketch Box**

<b>Environmental Aspect</b>	<b>Impact (Yes/No)</b>	<b>Significance (H/M/L)</b>	<b>Action to be taken</b>	<b>Responsible Team or Person</b>	<b>Due Date</b>	<b>Date Completed</b>

**CONTROLLED DISCLOSURE**

**Annex C – Substation EMP Checklist**

Model checklist for identification of environmental aspects (issues) and impacts at Eskom substations

Site (Substation) name:.....

Responsible Person:.....

Assessor's name:..... Unique No:.....

Assessment date:.....

<u>Environmental issue:</u>		<u>Description</u>	<u>Impact</u>			
			<u>N/A</u>	<u>High</u>	<u>Med</u>	<u>Low</u>
<u>Erosion</u>	HV Yard					
	Security Fences					
	Access Road					
	Storm Water					
<u>Vegetation Control</u>	HV yard					
	Security fences					
	Outside fence area					
	Fire break					
	Protected Trees					
	Alien / weeds Vegetation					
	Other					
<u>Storm water</u>	Outlet					
	HV yard					
	Terraces					
<u>Leaching of herbicides</u>	Security fences					
	Outside Eskom property					
<u>Oil spills</u>	HV yard					
	Oil dam					

**CONTROLLED DISCLOSURE**

<u>Environmental issue:</u>		<u>Description</u>	<u>Impact</u>			
			<u>N/A</u>	<u>High</u>	<u>Med</u>	<u>Low</u>
	Oil traps					
<u>Littering</u>	General					
	Maintenance					
	Construction					
<u>Waste disposal</u>	Waste separation					
	Bins					
	Disposal Problems.					
	Contract for disposal					
<u>Water</u>	Municipal					
	Storm water collection					
	Boreholes					
<u>Sewerage</u>	Municipal					
	Septic tank					
	French drain					
<u>Hazardous material store</u>	Register					
	Ventilation					
<u>Security of oil dam</u>	Security fence					
	Shade netting/cover					
<u>Animal interactions</u>	Security fence					
	HV Yard (pollution/nests)					
	Oil dam					
<u>PCB labelling</u>						
<u>Fire break</u>						
<u>Oil trap</u>						

**CONTROLLED DISCLOSURE**

<u>Environmental issue:</u>		<u>Impact</u>				
			<b>Description</b>	<b>N/A</b>	<b>High</b>	<b>Med</b>
<u>Landscaping</u>						
<u>Visual impact</u>						
<u>Complaints and requests by landowners</u>						
<u>Noise pollution and complaints</u>						
<u>Eskom fences and gates</u>	General condition					
	Locks					
	Closed and locked					

**Sketch Box**

<b>Environmental Aspect</b>	<b>Impact (Yes/No)</b>	<b>Significance (H/M/L)</b>	<b>Action to be taken</b>	<b>Responsible Team or Person</b>	<b>Due Date</b>	<b>Date Completed</b>

**CONTROLLED DISCLOSURE**

**GENERIC ENVIRONMENTAL MANAGEMENT PROGRAM FOR OPERATION AND MAINTENANCE**

Unique Identifier: **240-71555378**

Revision: **1**

Page: **25 of 33**

**Annex D – CNC’s Environmental Management Plan Guide**

Aspect	Action required	Resource / Reference	Resp. Person	Due date for actions
<b>A Wildlife Management</b>				
1. Wildlife fatalities or injuries (collisions and electrocutions)	Report incidents (within 24hrs) to Environmental Management on a Flash report.	Procedure for the Environmental Incident Management Procedure : 240-133087117	CNC Supervisor	Within 24 hrs
	Endangered Wildlife Trust will investigate the incident on behalf of Eskom and make recommendations. All recommendations must be implemented within a 4-month period.	Endangered Wildlife Trust (EWT) and CNC Supervisor	EWT CNC Supervisor	Within 4 month period
2. Nests birds For example crows, weavers	Birds’ nests (e.g. crows, sociable weavers) that do not interfere with the quality of supply should not be disturbed or removed unless a possibility exists that a flashover can occur. Trees can be trimmed, without damage to the nest.	Wildlife Interaction Management Standard : 32-829	CNC Supervisor	
Raptor nests	Raptors are protected bird species. Raptor (birds of prey for example, vultures) nests should not be interfered with, without first notifying the EWT (on 0860 111 535), for professional assistance.	EWT (on 0860 111 535) EO	CNC Supervisor	
3 Pollution (Bird streamers)	Insulation of jumpers or other mitigatory measures may need to be employed to control or prevent pollution due to bird streamers.	EWT Recommendations/ Environmental Officer/ Advisor	CNC Supervisor	

**CONTROLLED DISCLOSURE**

**GENERIC ENVIRONMENTAL MANAGEMENT PROGRAM FOR OPERATION AND MAINTENANCE**

Unique Identifier: **240-71555378**

Revision: **1**

Page: **26 of 33**

	Aspect	Action required	Resource / Reference	Resp. Person	Due date for actions
<b>B</b>	<b>Vegetation Management</b>				
1	Weeds present	Keep servitude of the powerline and access road clear of weeds and alien vegetation. Monitor during the routine inspection of substations and powerlines.	Checklists for routine substation and powerline inspections (Annexure A&B)	CNC Supervisor	As per works order
		Bush Clearing must be done in accordance with the Eskom Procedure for vegetation clearance and maintenance within overhead powerline servitudes and on Eskom owned land	EPC 32-247 / Contractor Specification for vegetation management : 240-52456757	CNC Supervisor	As per work order
		Large trees should be pruned according to 240-52456757. Remember to seek advice from environmental sections since some of these trees require permit.	32-247	CNC Supervisor	
		Permits must be obtained from the Department of Agriculture, Forestry and Fisheries (DAFF)/or Nature Conservation for the cutting or removing of protected trees and shrubs.	Environmental Officer/ Advisor	CNC Supervisor	
		The following actions can assist with the identification of protected trees: The relevant Department, DFFE should be contacted to assist with the identification of protected trees. • The landowner should be contacted for	Environmental Officer/ Advisor/ Relevant Department of Agriculture, Forestry and	CNC Supervisor	Prior to cutting or trimming

**CONTROLLED DISCLOSURE**

**GENERIC ENVIRONMENTAL MANAGEMENT PROGRAM FOR OPERATION AND MAINTENANCE**

Unique Identifier: **240-71555378**

Revision: **1**

Page: **27 of 33**

Aspect	Action required	Resource / Reference	Resp. Person	Due date for actions
	<p>information before cutting and trimming trees on his/her property</p> <ul style="list-style-type: none"> <li>• The latest list of protected species, as well as alien vegetation, is available from Environmental Management</li> <li>• Environmental Management will make available educational information on protected trees as part of the environmental awareness and training program</li> </ul>	Fisheries / Relevant Nature Conservation Department		
<b>C</b>	<b>Herbicide management</b>			
	<p>Herbicide leaching/spills/damage to property must be reported in a flash report to the Environmental Officer. This checklist is also included as part of the routine inspection for substations and powerlines.</p> <p>Only Eskom approved herbicides should be used for the treatment of weeds. The manufacturer's specification must not be deviated from.</p>	Seek advice from Environmental officer of the area.	Supervisor	Within 24 hours
		Herbicide Management Guide: Application of herbicide must be done in accordance to: 240125477962	Supervisor /PTO or appointed herbicide contractor	As per work order request & herbicide contract
	Application of herbicides must be done by qualified/registered Pest Control Operator registered or trained persons working under the supervision of a registered Pest Control Operator		Supervisor /PTO or appointed herbicide contractor	

**CONTROLLED DISCLOSURE**

**GENERIC ENVIRONMENTAL MANAGEMENT PROGRAM FOR OPERATION AND MAINTENANCE**

Unique Identifier: **240-71555378**

Revision: **1**

Page: **28 of 33**

Aspect	Action required	Resource / Reference	Resp. Person	Due date for actions
	All herbicide application work must be carried out according to Eskom's guidelines and the standard for the safe use of pesticides and herbicides.	Standard/ Guide for the Safe use of Pesticides and Herbicides. Refer to this document: 240125477962	Supervisor /PTO or appointed herbicide contractor	
	Material Safety Data Sheets (MSDS) / Safety Data Sheet (SDS) should be available for all chemicals on stored and or used on site.	OHS Act	Supervisor	
	A register of applications, stating where, when, who and how the chemical was applied, must be kept. The leaching action, residual action, manner of application and the surrounding area (especially wetlands and crops) should be considered in the choice of chemical.	Standard/ Guide for the Safe Use of Pesticides and Herbicides	Supervisor /PTO or appointed herbicide contractor	
<b>4 Oil spills</b>				
	Report incident on a flash report within 24 hours of the spill.	Procedure for the Environmental Incident Management Procedure : 240-133087117	Supervisor	Within 24 hours
	The procedure for Waste management must be followed in the event of oil spill waste.	Waste Management Procedure ( 32-245)	Supervisor	Within 24 hours
	In the event of an oil spill, the first priority is to contain the spill. The emergency programme for oil spills, as	Environmental Specialist/ Officer.	Supervisor / emergency	Oil spill actioned clean-up

**CONTROLLED DISCLOSURE**

**GENERIC ENVIRONMENTAL MANAGEMENT PROGRAM FOR OPERATION AND MAINTENANCE**

Unique Identifier: **240-71555378**

Revision: **1**

Page: **29 of 33**

Aspect	Action required	Resource / Reference	Resp. Person	Due date for actions
	<p>developed for the CNC must then be followed. Oil spill cleanup chemicals and the mobile oil clean-up kits must be available for accidental spills. The mobile kit should be available in all vehicle transporting leaking transformers or oil.</p> <p>A stock of at least 20 L (min) of oil remediation chemical should be kept at the CNC in the event of an oil spill.</p> <p>Contact Environmental Management for Oil Clean-Up Suppliers.</p>		clean up team if required	initiated within 1 month (KPI)
	<p>Oil contaminated soil must be treated as hazardous. It is preferred that spillages and contaminated areas be treated on site. However, circumstances may necessitate the removal of contaminated soil form the CNC for treatment – this area must be clearly demarcated and/ or cordoned off</p>	Bio Remedial Contractors / suppliers must be used where necessary	Supervisor	As per the incident
	<p>All oil spills should be treated as PCB contaminated unless an inventory of PCB equipment / oil exists or if the vessel from which the oil leaked is marked as PCB free</p> <p>Where required, Oil samples should be taken and forwarded to the nearest laboratory for PCB testing, and records must be kept for audit purposes.</p>	Waste Management Procedure: 32-245 Environmental Specialist or Officer	Supervisor	As per incident
	<p>To prevent and minimise oil spills, the following apply:</p> <ul style="list-style-type: none"> <li>◆ Build Catchment area/ oil plinths where such chemicals are stored or where oil leaking</li> </ul>	Section 28 of the National Environmental Management Act :	Supervisor	As per works order request

**CONTROLLED DISCLOSURE**

**GENERIC ENVIRONMENTAL MANAGEMENT PROGRAM FOR OPERATION AND MAINTENANCE**

Unique Identifier: **240-71555378**

Revision: **1**

Page: **30 of 33**

Aspect	Action required	Resource / Reference	Resp. Person	Due date for actions
	<ul style="list-style-type: none"> <li>◆ equipment's are stored.</li> <li>◆ Oil catchment areas must be kept clear of all stones, free of debris and water.</li> <li>◆ Oil taps should be closed to prevent drainage of oil from equipment.</li> <li>◆ Oil must be pumped out regularly from the catchment dams.</li> <li>◆ Damaged transformers that may leak should be stored in a suitable bunded area / oil plinth.</li> </ul>	Duty of Care		
<b>5</b>	<b>Waste management Litter (general construction and maintenance waste)</b>			
	Waste should be minimised, recycled and re-used where possible.	Operational Waste management plans and Waste Management Standard :32-245	All staff	
	Littering is prohibited at all times. All waste to be kept in suitable and labelled bins	NEMWA-Regulations / Local Government Bylaws	All staff	
	Excess construction material must be removed by approved contractors, and taken to a suitable and legal dumping site upon completion of any work performed.	NEMWA-Regulations / Local Government Bylaws	Supervisor	
	Litter and general waste should only be disposed of at a registered municipal disposal or hazardous	NEMWA-Regulations / Local Government	Supervisor	

**CONTROLLED DISCLOSURE**

**GENERIC ENVIRONMENTAL MANAGEMENT PROGRAM FOR OPERATION AND MAINTENANCE**

Unique Identifier: **240-71555378**

Revision: **1**

Page: **31 of 33**

Aspect	Action required	Resource / Reference	Resp. Person	Due date for actions
	facility.	Bylaws		
	The latest list of waste sites in the region is available from DFFE or SAWIC	NEMWA-Regulations / Local Government Bylaws	Supervisor	
	Under no circumstances is waste, including cleared vegetation, is to be burnt.	Operational (OU) management plans and Waste Management Standard :32-245	Supervisor	
	Lack of toilet facilities may lead to soil contamination. Where this has been identified, toilets should be hired or a motivation made for capital to purchase toilet facilities	Operational Waste management plans and Waste Management Standard :32-245	Supervisor	As per works order request
<b>6</b>	<b>Hazardous waste and hazardous substances</b>		Supervisor	
	Hazardous waste includes <ul style="list-style-type: none"> <li>◆ Oil contaminated soil and materials (e.g. oil rags),</li> <li>◆ PCB contaminated waste,</li> <li>◆ Herbicide and solvent contaminated empty containers,</li> <li>◆ Mercury containing</li> </ul>	Bio-Remedial Contractors / suppliers must be used to do this function.	Supervisor	
	General and hazardous waste must be stored in separate bins.		Supervisor	
	<ul style="list-style-type: none"> <li>◆ Oil and solvent contaminated waste must be suitably enclosed, labelled and disposed of at a hazardous Class H disposal site</li> <li>◆ If transported to and temporarily stored at CNC sites, the storage area must be properly demarcated and cordoned off.</li> </ul>		Supervisor	

**CONTROLLED DISCLOSURE**

**GENERIC ENVIRONMENTAL MANAGEMENT PROGRAM FOR OPERATION AND MAINTENANCE**

Unique Identifier: 240-71555378

Revision: 1

Page: 32 of 33

Aspect	Action required	Resource / Reference	Resp. Person	Due date for actions
<ul style="list-style-type: none"> <li>◆ fluorescent lamp tubes'</li> <li>◆ Asbestos waste; and</li> <li>◆ Sulfur Hexafluoride (SF6) solid waste</li> <li>◆ Solvents.</li> </ul>	<ul style="list-style-type: none"> <li>◆ Hazardous waste should be removed and disposed of from the CNC site as soon as possible.</li> </ul>			
	<p>PCB / PCB equipment must be labelled, managed and disposed of according to legal requirements. Special precautionary measures must be taken when handling PCB oil or equipment (e.g. from transformers).</p> <p>If the PCB status of a transformer is unknown, a sample (taken by a suitably qualified person) should be sent to the nearby Oil for analysis.</p>	<p>Waste Management Standard : 32-245 / OU Waste Management Plans</p> <p>Send samples to Laboratory where necessary.</p>	<p>Supervisor</p>	

**CONTROLLED DISCLOSURE**

**GENERIC ENVIRONMENTAL MANAGEMENT PROGRAM FOR OPERATION  
AND MAINTENANCE**

Unique Identifier: **240-71555378**

Revision: **1**

Page: **33 of 33**

---

**CONTROLLED DISCLOSURE**

When downloaded from the document management system, this document is uncontrolled and the responsibility rests with the user to ensure it is in line with the authorized version on the system. No part of this document may be reproduced in any manner or form by third parties without the written consent of Eskom Holdings SOC Ltd, © copyright Eskom Holdings SOC Ltd, Reg No 2002/015527/30