

	ESKOM TRANSMISSION BASELINE ENVIRONMENTAL MANAGEMENT PROGRAMME FOR SUPPLIERS / CONTRACTORS or http://www.imbewuregisters.co.za / http://www.sabinet.co.za / https://my.libryo.com							Template Identifier	240-43921898	REV	7
								Document Identifier	240-109832932	REV	2
								Effective Date	December 2017		
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NR	ACTIVITY	ASPECT	IMPACT	SIGNIFICANCE	OBJECTIVE	TARGET	MEANS / METHOD STATEMENT	DUE DATE	RESPONSIBLE PERSON	COMPLETION DATE	COMPLIANCE OBLIGATIONS	ACTION EFFECTIVENESS		
												Fully effective	Partially effective	Ineffective
1	PROCUREMENT	Evaluation and adjudication of tender submissions	Failure to include environmental requirements during tender process could result into environmental degradation	Medium	Ensure Eskom SHEQ requirements are specified / included during tender process	With the submission of each tender	Ensure Environmental requirements are taken into account during tender process .	Tender submission	Buyer		32-726 - SHE Requirements for the Eskom Commercial Process			
2		Placement of order/contract with suppliers	Specifying environmental criteria for supplies & advice on the use of products or services to minimise the environmental impacts.	Medium	Ensure Environmental requirements are taken into account when placing an order	Placement of order	Specifying environmental criteria for suppliers/service providers .	Tender stage	Buyer		32-726 - SHE Requirements for the Eskom Commercial Process			
3		Assessing contractors	Failure to make contractors aware of the impact of their deviations from set procedures could lead to negative environmental impacts	Medium	Ensure that contractors are aware of the impact of their deviations from / non-compliance to set procedures.	Prior commencement of activities	SHEQ File evaluation and approval for tender requirements	Prior commencements of activities	Transmission Environmental Management / Project Manager		32-726 - SHE Requirements for the Eskom Commercial Process			
4	PROJECT MANAGEMENT	The management of the project according to EMP and relevant environmental legal requirements .	Failure to ensure compliance with the EMP and relevant compliance obligations requirements may lead to legal contraventions, customer complaints, claims against the business and damage to the environment and private / state properties.	HIGH	To ensure that the project is effectively managed according to all compliance obligation requirements.	0 Legal Contraventions / 0 Safety Incidents	Through discussing all environmental non-compliances and requirements under an agenda items at the project inaugural meeting and progress meetings, allocating responsible persons and action dates for mitigations.	Duration of project	Project Manager / Contractor		National Environmental Management Act, 107 of 1998 (NEMA), Sec 28. Duty of care and remediation of environmental damage.			
5	PROJECT MANAGEMENT	Assesment & Planning	Failure to conduct line risk assessments and proper planning during the execution of the project activities may lead to environmental and safety incidents and damage to private / state property that may result in disputes with landowners.	HIGH	To ensure that risk assessments and proper planning are conducted to minimise or avoid environmental aspects that might lead to negative environmental impacts	0 Legal Contraventions / 0 Safety Incidents	1. Environmental requirements can be discussed daily during the toolbox talks. 2. Environmental Risks assessments of the area can be done together with safety observations / assessments. 3. Emergency contact numbers must be available on site. 4. Land owners must be notified of dates contractors will be working in the servitude, crossing private properties. 5. Contractors working for Eskom must have identity cards, clearly marked clothing and vehicles. 6. Contractors working onTransmission sites must have SAPS security clearance to enter substations / sites	Duration of project	Project Manager / Contractor		National Environmental Management Act, 107 of 1998 (NEMA), Sec 28. Duty of care and remediation of environmental damage.			
6	PROJECT MANAGEMENT	Environmental Training & Awareness of contractors.	Lacking environmental awareness / knowledge of Eskom Transmission and other relevant compliance obligations requirements may lead to legal contravention, damage to the environment and private property that may result into disputes and claims with landowners.	HIGH	To ensure contractors are aware of environmental requirements i.t.o. the EMP and other compliance obligations requirements	0 Legal Contraventions / 0 Safety Incidents	1. SHE & Security Induction Training must be provided to all contractors before any project activity may start. 2. Attendance Registers of SHE Induction must be kept by the project manager / BU SHE Depts and copies included in the contractor's SHE file 3. Environmental Requirements can be highlighted daily during the toolbox talks to refresh workers minds on what is required. 4. Relevant training requirements must be identified up front before tender award and will be checked during tender approval and SHE file evaluations and approvals.	Duration of project	Project Manager / Contractor		National Environmental Management Act, 107 of 1998 (NEMA), Sec 28. Duty of care and remediation of environmental damage.			

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7	WASTE MANAGEMENT	Domestic / General Waste and litter generated during this project in the servitude. This include uncontaminated building rubble	These types of activities cause pollution and degradation to the environment. Leaving waste under the line and on private property can lead to landowner complaints and claims against Eskom	HIGH	Waste is handled and dispose of as required by legislation and best practices.	0 Legal contraventions / landowner complaints	No waste to be left on site/ servitude after shift ends. Domestic / general waste to be disposed of at the closest registered / licensed municipal waste site. 1. Waste disposal register to be completed for waste disposal and kept on site in environmental and safety file. 2. Retain all waste disposal documentation / records 3. Report waste disposal figures to BU Env Dept.	Duration of project Duration of project Duration of project / project completion	Project Manager / Contractor Project Manager / Contractor Project Manager / Contractor		Eskom Waste Standard (32-245) - National Environmental Management Act, 107 of 1998 (NEMA), Sec 30. Control of emergency incidents - National Environmental Management: Waste Act, 59 of 2008, Sec 17. Reduction.			

8	WASTE MANAGEMENT	Hazardous waste including but not limited to asbestos containing material, silica gel, oil and oil contaminated soils and materials, chemicals, old herbicides and herbicide containers, pesticides, building rubble contaminated with hazardous waste types, etc.	Hazardous waste are dangerous to humans and animals, causing land, water and ground water pollution. Incorrect handling and disposal may lead to claims against the business and legal contraventions.	HIGH	Hazardous waste is identified and stored, transported and disposed according to legal and other requirements.	0 Legal contraventions	1. Hazardous waste must be identified and disposed off at a registered hazardous waste site by a hazardous waste contractor. 2. Disposal certificates, waste manifest and weigh bridge receipts must be obtained and available. 3. Copies of any disposal certificate must be submitted to BU Environmental Dept. and records kept in Environmental and safety file. 4. All waste disposal figures must be report to the BU Env Dept 5. A waste disposal control register must be kept on site at all times with disposal figures recorded	Duration of project	Project Manager / Contractor		National Environmental Management Act 107 of 1998, Duty of Care Section 28 and Sec 30. Control of emergency incidents - Eskom Waste Standard (32-245) - National Environmental Management: Waste Act, 59 of 2008, Sec 17. Reduction, re-use, recycling and recovery of waste, Sec 21. General requirements for storage of waste, Sec 22. Storage of general waste, Sec24, Collection of waste, Sec 25. Duties of persons transporting waste, Sec 26. Prohibition of unauthorised disposal and Sec27. Littering - National Environmental Management: Waste Act, 59 of 2008 - Waste Classification and Management Regulations, 2013 (GN R634) , Sec 4. Waste Classification and Sec 6. General - National Environmental Management: Waste Act, 59 of 2008 - National Waste Information Regulations, 2012 , Annexure 4 - Hazardous Waste Types For Reporting To The Sawis - National Environmental Management: Waste Act, 59 of 2008 - Waste Classification and Management Regulations, 2013 (GN R634) , Sec 5. Safety Data Sheets - National Environmental Management: Waste Act 59 of 2008 - National Norms and Standards for the Storage of Waste (GN 926) , Sec 10. General Requirements of Waste Storage Containers - National Environmental Management : Waste Act 59 of 2008 - National Norms and Standards for Disposal of Waste to Landfill (GN R636) , Sec 5. Waste Disposal Restrictions			
9	Asbestos management - Improper handling, storage and disposal of asbestos contain material	This can affect human health if people get into contact with asbestos. Pollution can be caused if not stored properly or disposed correctly and can also lead to contravention of legislation.	HIGH	Hazardous waste is identified and stored, transported and disposed according to legal and other requirements.	Zero Harm to the environment and peoples Health	The handling, removal and disposal to be in accordance with Requirements for safe processing, storing, removing and handling of asbestos containing material procedure. Asbestos sign must be available onsite. □ Inspect the structure integrity to ensure that the structure could be accessed safely. Ensure throughout the operation that the panels are kept damp until it is safely packed and sealed in the waste containers. Use hand tools to loosen panels by cutting hook bolts with grinders and bolt cutters and all workers operating on heights have adequate working on heights training and certification and that all fall protection safety equipment has been inspected and approved for use. Place asbestos containing waste in bins provided. Once all asbestos is removed, handpick all debris and place in 150-micron plastic bags (double bagging is required by law) and seal with cable ties. Convey the asbestos containing waste to an approved waste facility. Site clearance will be done by the appointed AIA and the records will be available and should be kept for divisional inspection of the Department of Labour.	Duration of the project	Project Manager / Contractor		National Environmental Management Waste Act 58 of 2008 Sec 21 General requirements for storage of waste, Sec 25 Duties of persons transporting waste, Sec 26 Prohibition of unauthorised disposal, Occupational Health & Safety Act Asbestos Regulations 2001 (R155 s4, s7-11 & s13-15 & s19), Department Water Affairs Minimum Requirements for the Handling, Classification & Disposal of Hazardous Waste. National Environmental Management Act 107 of 1998 Sec 28. South African National Standards 10228 - 10230, National Water Act 36 of 1998 s19.				

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10	CHEMICAL SUBSTANCE MANAGEMENT	Incorrect storage of Solvents, chemical substances & Paints	Health hazard to humans and environmental pollution	MEDIUM	To ensure that solvent and paints are stored in accordance with legal and other requirements.	0 Legal Contraventions	1. To store all solvents, chemical substances and paints in appropriate storage areas / facilities where chemical / solvent registers are available and updated. 2. The temporary storage of Nitrogen gas cylinders in workshop must be chained to wall (empty / full one). 3. To ensure conformance with Environmental EPP Procedure to address spillages. 4. To ensure MSDS are available at areas where such products are stored and meets the 16 point requirements as set by the OSH Act (1993). 5. To store hazardous chemicals substances which may cause a spillage in banded areas. 6. To label demarcated hazardous chemical store.	Duration of project	Project Manager / Contractor		- Basil Convention , Annexure 2,3 and article 4 and 12 , Rotterdam Convention Article 1,2 and 9 - National Environmental Management Act, 107 of 1998 (NEMA), Sec 28. Duty of care and remediation of environmental damage, duty of care on every person to prevent significant pollution or degradation of the environment or where it cannot reasonably be avoided, stopped or is authorised by law, to minimise and rectify such pollution or degradation. - National Environmental Management Act, 107 of 1998 (NEMA), Sec 30. Control of emergency incidents - National Environmental Management: Waste Act, 59 of 2008, Sec 16. General duty in respect of waste management - National Environmental Management: Waste Act, 59 of 2008, Sec 21. General requirements for storage of waste- National Environmental Management: Waste Act, 59 of 2008, Sec 25. Duties of persons transporting waste - National Water Act, 36 of 1998, Sec 19. Prevention and remedying effects of pollution - National Water Act, 36 of 1998, Sec 20. Control of emergency incidents - Occupational Health and Safety Act, 85 of 1993 - GN R 1031 - General Safety Regulations, 1986 , Sec 4. Use and storage of flammable liquids			

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11	EQUIPMENT MANAGEMENT	Cleaning of Machinery	Chemical pollution is caused by vehicle oils, grease or solvents. Chemical pollution to the environment can lead to a legal contravention and	MEDIUM	To ensure that no machinery is maintained / Cleaned in the servitude / on substitution that can result to pollution	0 Legal contraventions and landowner complaints	1. By inspecting machinery prior to maintenance / project activity starting. 2. Not to make use of the incorrect tools for the job and not to make use of malfunctioning machinery. 3. To ensure all staff and contractors are sufficiently trained in using the machinery correctly. 4. Have records where relevant available in SHE file	Duration of project	Project Manager / Contractor		National Environmental Management Act, 107 of 1998 (NEMA), Sec 28. Duty of care and remediation of environmental damage.			
12	Civil Works: Establishment of Construction Camps and Store, Off - Loading Construction Material and Equipment	Site Establishment	Potential negative on the indigenous vegetation when clearing the land for site establishment. Possible damage to construction equipment that might cause contamination of the natural environment, air, ground and surface water	HIGH	To minimise water wastage and pollution of land and water	0 Legal contraventions and landowner complaints	1. No camp sites on servitudes / private property or Eskom sites without written consent from landowners / Eskom Management. 2. Camp sites must not be located next 100 year flood line of the stream or the river. And 300 meters of the geo-hydrological gradient of the surface water. 3. Ensure proper effluent / sewerage management and implemented. 4. Ensure that all equipments are inspected for possible leaks. 5. Ensure sites have good housekeeping and kept clean	Duration of project	Project Manager / Contractor		National Environmental Management Act, 107 of 1998 (NEMA), Sec 28. Duty of care and remediation of environmental damage. duty of care on every person to prevent			

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13	ADMINISTRATION	Environmental & Safety File	Non compliance to legal requirements and non conformance to other requirements and conditions set out in the EMP can lead to severe impacts resulting from the list of aspects identified. Failure to keep relevant and required documents for record purposes can lead to legal contraventions, civil and financial liability Failure to comply with the EMP and other Eskom requirements will result in the issuing of an NCR against the contractor.	HIGH	Ensure documentation system is maintained	0 Legal contraventions / claims / safety incidents	1. Update documents as activities takes place. 2. Keep all records and documentation with regards to project. 3. Submit reports as required after inspections/investigations/and completion of work. 4. All Environmental incidents to be reported.	Duration of project	Project Manager / Contractor		National Environmental Management Act, 107 of 1998 (NEMA), Sec 28. Duty of care and remediation of environmental damage.			
14	REPORTING	Recording and reporting of Environmental related incidents	Failure to report could have a major impact on the environment, human health and well-being and could lead to mitigation measures not taken	HIGH	Ensure all incidents are recorded and reported	0 Legal contraventions / claims / safety incidents	1. To keep and SHE incident register on site 2. To record and report all SHE incidents within 24 hours to Project Manager / BU Env Dept	Duration of project	Project Manager / Contractor		240-133087117 - Eskom Environmental Incident Management Procedure - Environmental Inspections Report for Substation (TRM-FM-0071) - National Environmental Management Act 107 of 1998 section 28 Duty of Care and section 30 (Control of emergency incidents) - National Water Act, 36 of 1998, Se 19, Prevention and remedying effects of pollution and Sec 20. Control of emergency incidents - 240-80662342 : Environmental Monitoring and Measurement work instruction			
15	HANDLING OF CONSTRUCTION RUBBLE/WASTE	Incorrect storage and disposal of waste	Oil contamination to natural environment.	Medium	To prevent or minimise pollution incidents resulting from the storage and disposal of construction rubble/waste	0 Legal contraventions / claims / safety incidents	1. Rubble to be stored in demarcated area. 2. Ensure no water resources are contaminated ensure no lad degradation due to incorrect storage Disposal to take place at legal site	During and after construction	Project manager/Contractor		National Environmental Management Act 107 of 1998, Duty of Care Section 28 and Sec 30. Control of emergency incidents - Eskom Waste Standard (32-245) - National Environmental Management: Waste Act, 59 of 2008, Sec 17. Reduction, re-use, recycling and recovery of waste, Sec 21. General requirements for storage of waste, Sec 22. Storage of general waste, Sec 24. Collection of waste, Sec 25. Duties of persons transporting waste, Sec 26. Prohibition of unauthorised disposal and Sec 27. Littering			
16	ASBESTOS MANAGEMENT	Handling of asbestos and asbestos containing material. Asbestos has a negative impact on the environment and human health and well-being & pollution could be caused and legislation contravened if not managed according to legal requirements.	Pollution to soil, and water resources could be caused and affect human health and well-being and could lead to possible legal contravention.	HIGH	Broken asbestos is handled according to legal & other requirements.	0 Legal contraventions	1. Employees / Contractors are trained on all requirements of handling asbestos (trained and permitted by the Dept of Environmental Affairs and Dept of Labour). 2. Asbestos containing material must be confirm on sites before work on building maintenance and trench cover replacements are started and corresponding responsible persons	Duration of project	Project Manager / Contractor		Environment Conservation Act, 73 of 1989 - Regulation for the Prohibition of the Use, Manufacturing, Import and Export of Asbestos and Asbestos Containing Materials (GNR, 341) - Section 2. Prohibitions, 4. Registration and Reporting, 5. Asbestos Phase-Out Plan, 6. Disposal of Asbestos or Asbestos Containing Material and 7. Packaging and Transport of Asbestos - SANS 10228: The identification and classification of dangerous goods for transport by road and rail modes - SANS 10229: Transport of dangerous goods - Packaging and large packaging for road and rail transport Part 1: Packaging - Compensation for Occupational Injuries and Diseases Act, 130 of 1993 (COIDA)- Sec 65-67 - Occupational Health and Safety Act, 85 of 1993 (OHS) - Sec 13-15 - Occupational Health and Safety Act, 85 of 1993 - GN R1031 - General Safety Regulations, 1986 Sec 2. Personal safety equipment and facilities - Occupational Health and Safety Act, 85 of 1993 - Asbestos Regulations, 2001 - Sec 2-22 - Occupational Health and Safety Act, 1993 - Notice of Inclusion in Terms of Section 43 (1) (b) (xii) of The Occupational Health and Safety Act, 1993 (AIA SANAS Accreditation) - National Environmental Management Act, 107 of 1998 (NEMA), Sec 28. Duty of care and remediation of environmental damage and Sec 30. Control of emergency incidents - National Water Act, 36 of 1998, Se 19, Prevention and remedying effects of pollution and Sec 20. Control of emergency incident			

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17	SANITATION	Regular monitoring of sanitation (portable toilets) to prevent pollution to soil and ground water resources	Hazardous waste are dangerous to humans and animals, causing land, water and ground water pollution. Incorrect handling and disposal may lead to customer complains and claims against the business and legal contraventions.	MEDIUM	To ensure that non compliances or NCRs are picked up during construction activities and rectified / mitigated a.s.a.p. after it occurred. Chemical waste is transported and dispose according to legal and other requirements.	0 Legal Contraventions	1. Portable toilets should be made available for use on site if required, to accommodate the number of employees working on site. Permission to be obtained from Eskom to make use of facilities on site. 2. The removal or sewerage from chemical toilet shall be done by licenced service providers. 3. Service providers shall only make use of licenced waste water treatment facilities 4. The contractor shall submit sewerage waste disposal figures and safe disposal certificates to the relevant BU Environmental Dept	Duration of project	Project Site Supervisor Project Site Supervisor / BU Environmental Professional.		Eskom Waste Standard (32-245) - Occupational Health and Safety Act, 85 of 1993 - Facilities Regulations, 2004- Sec 2 sanitation - Occupational Health and Safety Act, 85 of 1993 - GN R84 - Construction Regulations, 2014 - Sec 30. Construction employees? facilities - National Building Regulations and Building Standards Act, 103 of 1977 - Regulations Under Section 17 (1), Part 3 - Control of objectionable discharge and P4 industrial effluent - National Environmental Management - Integrated Coastal Management Act, 24 of 2008 - Chapter 8 - Marine And Coastal Pollution Control - National Environmental Management: Waste Act 59 of 2008 - List of Waste Management Activities That Have, or are Likely to Have, a Detrimental Effect on the Environment (GN 921 of 2013) - National Health Act, 61 of 2003 - National Environmental Health Norms and Standards For Premises and Acceptable Monitoring Standards For Environmental Health Practitioners - Sec 1. Norms and standards applicable to premises, Sec 26 Environmental pollution control measures applicable to premises and Se 22. Permissible water use - Occupational Health and Safety Act, 85 of 1993 - Facilities Regulations, 2004 - Sec 2 Sanitation - Water Services Act, 108 of 1997 - Sec 3. Right of access to basic water supply and basic sanitation. - 240-133087117 - Eskom Environmental Incident Management Procedure - Environmental Inspections Report for Substation (TRM-FM-0071) - National Environmental Management Act 107 of 1998 section 28 Duty of Care and section 30 (Control of emergency incidents) - National Water Act, 36 of 1996, Se 19. Prevention and remedying effects of pollution and Sec 20. Control of emergency incidents			
18	TRAINING	Environmental Training & Awareness of contractors.	Lacking environmental awareness / knowledge of Eskom Transmission and other relevant environmental legal requirements may lead to legal contravention, damage to the environment and private property that may result into disputes and claims with landowners.	HIGH	To ensure contracts are aware of environmental requirement i.t.o. the EMP and environmental legal and other requirements	Daily	1. Environmental Induction Training must be provided to all contractors who will be conducting work for this project. 2. Attendance Registers of this induction training must be kept by the project manager and copies included in the contractor's Environmental & Safety file 3. Environmental Requirements can be highlighted daily during the toolbox talks to refresh workers minds on what is required. 4. Relevant training requirements must be identified and be applicable to the scope of work of each project prior to the start of the project.	Duration of project	Project Manager / Contractor		National Environmental Management Act, 107 of 1998 (NEMA), Sec 28. Duty of care and remediation of environmental damage.			
19	SOIL EROSION	The incorrect activities in areas, which are prone to erosion, can lead to serious erosion. This can eventually make the entire area inaccessible.	Erosion on comunal properties can affect the landowner's carrying capacity, and affect Eskom infrastructure that could lead to Quality of supply been affected to customers as well as replacement and rehabilitation cost.	HIGH	To ensure that activities which may lead to erosion are identified and managed to avoid or minimise further erosion from resulling and adhere to relevant legal requirements.	On Ocurance	1. By identifying activities that may cause erosion. 2. By assessing site/s for existing erosion and to avoid these areas if and where possible. 3. By removing vegetation selectively and compacting soil after excavation activities. 4. To rehabilitate areas of erosion caused by project activities.	Duration of project	Project Manager / Contractor and ECO		Conservation of Agricultural Resources Act, 43 of 1983 - National Environmental Management Act, 107 of 1998 (NEMA), Sec 28. Duty of care and remediation of environmental damage.			

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Transmission Project Manager	Transmission Environmental Representative
Name & Surname	Name & Surname
Thandi Semosa	Rabelani Mabogo
Signature	Signature
Date	Date
	09-Mar-23

CONTRACTORS DETAILS

I,.....(Name of Contractor), accept the above Environmental Management Plan and acknowledge having read and understood my responsibilities.

SIGNATURE	DATE
CONTACT DETAILS	
PROJECT MANAGER/ SITE REPRESENTATIVE (NAME)	

SIGNATURE

DATE