Eskom	SCOPE REQUIREMENT FOR ASBESTOS REMOVAL AND DISPOSAL	SCOPE

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Compiled by	Supported by	Authorised by
Kenneth Hlungwane	**Charmaine Mare**	**Mdu Ndawo**
Snr Advisor Occupational Hygiene & Safety	**Environmental Manager - SHEQS**	**Middle Manager SHEQS**
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1. INTRODUCTION

There is a need to remove and dispose of all asbestos from Eskom properties, within Distribution (DX) Gauteng Cluster (GC) to ensure compliance with Eskom Asbestos Standard 32-303 and Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) and it's regulations and with specific reference to the Asbestos Abatement Regulations.

2. SCOPE OF WORK

2.1 PURPOSE

The purpose of the Contract is to provide a scope requirement for the safe removal and disposal of asbestos and asbestos containing material in Gauteng Cluster Building/s.

2.2 SCOPE REQUIREMENT

The scope of work includes:

The Provision of Supervision, Labour, Equipment, monitoring, transport, removal and disposal of asbestos containing material for the Gauteng Cluster for on as and required basis.

Contractors to be registered to perform type 2 or type 3 asbestos work, have a valid track record, have licence to transport hazardous waste and have the necessary equipment in order to remove asbestos containing material from different sites with different scopes.

1.) P&Gs and Pre-construction planning related activities. (Specialised barricading, Specialised PPE, equipment and vehicles.)

2.) Obtaining the correct authorisations for removal of asbestos containing material.

3.) Building, decommissioning/ removal of asbestos containing material in buildings such as roofing sheets, fascia boards, barge boards, gutters, ceilings, partitioning walls or any asbestos containing material linked to buildings.

4.) Safe transportation permits and transportation in sealed skips or bags. Asbestos and ACM must be transported in accordance with the minimum requirements of 32-303 Asbestos Management Standard and in accordance with SANS 10228 and SANS 10229.

5) Disposal at registered Hazardous landfill sites in Gauteng Province. Asbestos or Asbestos containing material must be disposed of in accordance with the minimum requirements according to the Asbestos Abatement Regulations – Regulation 20 and the applicable environmental requirements, that is, the Environment Conservation Act 73 of 1989 and the National Environmental Management Act 107 of 1998.

6) Providing Eskom with safe disposal certificates.

7) Any removal and safe storage of asbestos containing material (ACM) shall be performed after normal working hours, or under controlled conditions, to limit the number of persons who might be exposed.

8) Air monitoring performed by an approved inspection authority (AIA) is required during and after removal of the asbestos containing material for clearance purposes.

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Find below list of sites that have asbestos:

- Temba CNC
- Ga- rankuwa, Mothuhlung, Mapobane & Winterveldt CNC.s
- Cullinan CNC
- Cullinan HUB
- Bronkhorstspruit CNC
- Germiston CNC
- Vlakfontein MEW, (Tsakane, Dannuttor) CNC's
- Vlakfontein Ekurhuleni Live Work
- Etwatwa CNC
- Petit CNC
- Vosterskroon CNC's
- Stepdown CNC
- RDC Warehouse
- Rosherville Buidings
- Meyerton CNC
- Mnandi CNC
- Sebokeng CNC & Hub
- Braamfisher CNC
- Carletonville CNC
- Libanon Livework
- Magalies CNC
- Taunus CNC
- Klipspruit & Zola CNC
- Zola Hub
- Mapetla Hub
- Morningside Hub
- President Building
- Princess CNC
- Randfontein Hub
- Rigi North CNC
- West Wits Houses

2.3 General Requirements

The Contractor shall carry out scope requirements in compliance with Eskom Asbestos Standards 32-303 requirements and the Occupational Health and Safety Act, it's regulations and Asbestos Abatement Regulations Requirement.

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3. QUALIFICATION

- The Supplier must poses a minimum of 3 years related experience
- Registered Contractors Only: Only contractors registered with the Department of Employment and Labour for Type 2 or Type 3 Asbestos work.
- Supplier to provide a valid Department of Employment and Labour Approved Inspection Authority Certificate and SANAS Accreditation certificate to conduct air monitoring
- The supplier to have appropriate equipment and personal protective equipment (PPE) to perform asbestos work.
- The supplier to provide a detailed outline of how asbestos removal will be conducted as per scope, how asbestos containing material will be safely transported and where asbestos containing material will be disposed.

4. NORMATIVE REFERENCES

a) Occupational Health and Safety Act 85 of 1993
b) Asbestos Abatement Regulations, 2020, as promulgated under the Occupational Health and Safety Act 85 of 1993
c) Construction Regulations 2014, as promulgated under the Occupational Health and Safety Act 85 of 1993
d) National Environmental Management Waste Act (NEMWA) 59 of 2008
e) Environment Conservation Act 73 of 1989
f) National Environmental Management Act 107 of 1998
g) National norms and standards for the storage of waste, GNR 926 of 2013
h) Regulations for the prohibition of the use, manufacturing, import, and export of asbestos and asbestos-containing materials, GNR 341 of 2007
i) HSG248: Asbestos: The analysts' guide for sampling, analysis, and clearance procedures of the Health and Safety Executive of the United Kingdom, as revised from time to time
j) SANS 17020: General criteria for the operation of various types of bodies performing inspection
k) SANS 10228: The identification and classification of dangerous goods for transport by road and rail modes
l) SANS 10229-1: Transport of dangerous goods – Packaging and large packaging for road and rail transport, Part 1: Packaging
m) SANS 10229-2: Transport of dangerous goods – Packaging and large packaging for road and rail transport, Part 2: Large packaging
n) 32-95: Occupational Health and Safety Incident Management Procedure
o) 32-249: Eskom Environmental Indicator Reporting Standard
p) 32-245: Eskom Waste Management Standard
q) 240-84733329: Eskom Medical Surveillance Procedure
r) 240-44175132: Eskom PPE Specification
s) ISO 9001 Quality Management Systems
t) 32-303 Requirements for Safe Processing, Handling, Storage, Disposal and phase-out of Asbestos
u) UN Transport of Dangerous Goods (UN Orange Book)

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5. INFORMATIVE REFERENCES

a) HSG173: Monitoring strategies for toxic substances, 2006, of the Health and Safety Executive of the United Kingdom, as revised from time to time
b) HSG264: Asbestos: The survey guide of the Health and Safety Executive of the United Kingdom, as revised from time to time
c) SANS 17025: General requirements for the competence of testing and calibration laboratories
d) SANS 17020: General Requirements for Inspection Bodies
e) ISO 45001: Occupational Health and Safety Management Systems
f) Department of Agriculture, Forestry and Fisheries Act 36 of 1947

6. DEFINITIONS AND ABBREVIATIONS

6.1 DEFINITIONS

Term	Definition/Explanation
Approved Asbestos Inspection Authority (AAIA)	An inspection authority, approved by the Chief Inspector for Occupational Health and Safety of the Department of Employment and Labour, for the monitoring of asbestos concentrations in the air and for the examination and testing of engineering control measures for asbestos.
Approved plan of work	Means a written site-specific methodology as contemplated in Regulation 15 (AAR) that is at least co-signed by the asbestos client, registered asbestos contractor, and approved inspection authority.
Asbestos	Any of the following minerals: grunerite (amosite), chrysotile, crocidolite, fibrous actinolite, fibrous anthophyllite, and fibrous tremolite, or any mixture containing any of these fibrous silicates.
Asbestos Compliance Officer	The person formally allocated the duties to manage asbestos work at a BU. Note that the responsible person in terms of the Occupational Health and Safety Act 85 of 1993 shall, nevertheless, still be responsible.
Asbestos cement products	Means a range of building materials that were manufactured using moulding and compression techniques, consisting of a hardened mixture of asbestos fibres, cement, and water.
Asbestos clearance certificate	Means a written document verifying that the regulated asbestos fibre concentration in the air meets the clearance indicator.
Asbestos client	Means any person for whom asbestos work is performed.
Asbestos coating	Means a surface coating that contains asbestos for fire protection, heat insulation, or sound insulation, but does not include textured decorative coatings.
Asbestos-containing material (ACM)	Means asbestos, as well as any material that contains asbestos, and includes asbestos cement products, asbestos coating, asbestos insulation board, asbestos insulation, asbestos textured decorative coatings, asbestos-contaminated soil, and other asbestos-containing materials.

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Term	Definition/Explanation
Asbestos disposal site	Means a site specifically designated for the purpose of asbestos disposal in terms of the National Environmental Management: Waste Act 59 of 2008.
Asbestos dust	Means airborne or settled dust that contains, or is likely to contain, regulated asbestos fibres.
Asbestos in place	Includes any asbestos, asbestos cement products, asbestos coatings, asbestos-containing material, asbestos dust, asbestos insulation, asbestos insulation board, and asbestos waste at the regulated asbestos area.
Asbestos insulation	Means any asbestos-containing material that is used for thermal, acoustic, or other insulation purposes, including fire protection, except: (a) asbestos cement, asbestos coating, or asbestos insulating board; or (b) any article of bitumen, plastic, resin, or rubber that contains asbestos and whose thermal and acoustic properties are incidental to its main purpose.
Asbestos insulating board	Means any flat sheet, tile, or building board consisting of a mixture of asbestos and cement or any other material, but that is not: (a) asbestos coating; or (b) an article of bitumen, plastic, resin, or rubber that contains asbestos and whose thermal and acoustic properties are incidental to its main purpose.
Asbestos inventory	Document used for the recording of all asbestos and ACM in the area of responsibility. The asbestos inventory and asbestos phase-out plan refers to the same document, i.e. Eskom Asbestos Inventory and Phase-out (Template).
Asbestos management plan	The Asbestos Management Plan specifies the required actions, resources and time frames for the identification, evaluation, and control of any work activities and conditions that may expose any person to asbestos fibres to ensure compliance with legal and Eskom requirements and the effective management of asbestos.
Asbestos phase-out plan	An authorised management plan that directs the timely removal of asbestos products and ACM from Eskom-owned areas in a formalised manner to ensure total phase-out by the set due date.
Asbestos removal site	Means a regulated asbestos area where asbestos removal work is performed.
Asbestos risk assessment	Means a risk assessment and risk categorisation of potential exposure to asbestos dust.
Asbestos waste	Means an undesirable or superfluous asbestos or asbestos-containing product or by-product or the undesirable or superfluous asbestos or asbestos-containing emission or residue of any process or activity that has been: (a) discarded by any person; or (b) accumulated and stored temporarily with the purpose of discarding it, with or without prior treatment connected with its discarding.
Asbestos work	Means work that exposes, or is likely to expose, an employee to asbestos dust, including transporting, storing, removing, handling, treating, repairing, and disposing of asbestos.
Bulk Sampling	Bulk asbestos sampling is carried out to: • Determine whether a material contains asbestos

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Term	Definition/Explanation
	• Determine the type of fibre(s) in Asbestos Containing Material (ACM) • Comply with the Regulations with regard to identifying, assessing, labelling and recording ACMs (asbestos inventory)
CAS No.	Means the Chemical Abstracts Service Registry Number.
Chief Director: Provincial Operations	Means the provincial director as defined in Regulation 1 of the General Administrative Regulations, 2003, published as Government Notice R.929 in *Gazette* No. 25129 of 25 June 2003.
Clearance indicator	Means that the measured airborne concentration of regulated asbestos fibres is less than 0,01 fibres per millilitre (f/ml) as measured in accordance with HSG248 or an equivalent method.
Competent person	(a) Has, in respect of the work or task to be performed, the required knowledge, training, experience, and – where applicable – qualifications specific to asbestos, provided that, where appropriate, qualifications and training are registered in terms of the National Qualifications Framework Act 67 of 2008, those qualifications and that training must be regarded as the required qualifications and training; and b) is familiar with the Act and the applicable regulations made under the Act.
Demolition work	regulated asbestos area means a method to dismantle, wreck, break, pull down, or knock down a structure or part of it by way of manual labour, machinery, or the use of explosives.
Environmental air monitoring	Includes static air monitoring for regulated fibres conducted downwind from outdoor type 2 asbestos work or outside asbestos enclosures where type 3 asbestos work is performed or in any area where there is the potential for asbestos contamination.
Eskom AIA	Eskom Holdings SOC Limited Approved Inspection Authority
Exposed to asbestos	Means exposed, or likely to be exposed, to asbestos dust while at the regulated asbestos area, and “exposure” has a corresponding meaning.
Formalised manner	According to an approved documented procedure, in line with an existing quality management system.
HSG248	Means Health and Safety Guidance 248: Asbestos – The analysts’ guide for sampling, analysis, and clearance procedures, published in 2005, or the latest update.
Incidental asbestos exposure	Means unintentional exposure to airborne asbestos at a regulated asbestos area where asbestos is present.
Measurement programme	A programme according to the monitoring strategy as contemplated in HSG173.
Monitoring	The planning and carrying out of a measurement programme as well as the recording of its results.
Non-asbestos-related work	Includes work performed in the vicinity of asbestos-containing materials or asbestos cement products, but excludes work performed on or with asbestos-containing materials or asbestos cement products.

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Term	Definition/Explanation
Occupational exposure limit (OEL) for asbestos	A limit value of 0.1 regulated asbestos fibres per millilitre of air, averaged over any continuous period of four hours, measured in accordance with HSG248.
Phase-out	The total removal of asbestos and ACM from business use.
Registered asbestos contractor (RAC)	Means either a contractor, or a mandatory, or an employer who conducts Type 2 asbestos work or Type 3 asbestos work or asbestos removal work, who is registered with the chief inspector.
Regulated asbestos area	Means an area demarcated and controlled as contemplated in Regulation 18 (AAR).
Regulated asbestos fibre	Means a particle of asbestos with a length-to-diameter ratio greater than 3 to 1, a length greater than 5 micrometres, and a diameter less than 3 micrometres.
Removal of asbestos	Means all tasks included in the process of removing asbestos from the location specified in the inventory of asbestos in place to the final disposal site.
Repair of asbestos-containing materials	Means restoring asbestos-containing materials to a safe condition after damage, using non-destructive methods in a manner that does not cause the release of asbestos fibres.
Respiratory protective equipment	Means a device that is worn over at least the mouth and nose to control the inhalation of air that is not safe.
Risk categorisation	Means the grouping and ordering of potential asbestos exposure risks as contemplated in Regulation 5(3) (AAR).
Similar Exposure Group	Means a group of employees who experience pollutant exposures similar enough that monitoring exposures of any representative sub group of employees in the group provides data useful for predicting exposures of the remaining employees.
Asbestos Compliance Officer	The person formally allocated the duties to manage asbestos at an OU/BU to ensure compliance with the relevant requirements. Note that the responsible person in terms of the Occupational Health and Safety Act 85 of 1993 shall, nevertheless, still be responsible.
Phase-out	The total removal of asbestos and ACM from business use.
Registered asbestos contractor	A mandatory person or employer conducting demolition work, who is registered with the Chief Inspector.
Regulated asbestos fibre	A particle of asbestos with a length-to-diameter ratio greater than 3 to 1, a length greater than 5 µm (micrometres or microns), and a diameter of less than 3 µm.
Respiratory protective equipment	Means a device which is worn over at least the mouth and nose to control the inhalation of air that is not safe.
Risk categorisation	Means the grouping and ordering of potential asbestos exposure risks as contemplated in regulation 5(3).
Short term exposure limit	Means a short-term exposure limit of 0.6 regulated asbestos fibres per millilitre of air, measured over a continuous 10-minute period

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Term	Definition/Explanation
The Act	Means the Occupational Health and Safety Act 85 of 1993.
Type 1 asbestos work	Means: (a) painting of asbestos cement products in a manner that does not require surface preparation and does not cause the release of asbestos fibres; or (b) the removal of less than 10 square metres of asbestos cement products or equivalent gutters and piping or asbestos insulating board, where removal work may not be repeated on the same site within a period of six months; and does not require registration with the chief inspector as a registered asbestos contractor.
Type 2 asbestos work	Means: (a) the repair or encapsulation of asbestos cement products in a manner that does not require surface preparation; or (b) the removal of asbestos cement products or asbestos insulating board; and requires registration with the chief inspector as a Type 2 registered asbestos contractor.
Type 3 asbestos work	Means the removal, repair, or encapsulation of any asbestos and asbestos-containing material and requires registration with the chief inspector as a Type 3 registered asbestos contractor.
UN Transport of Dangerous Goods	Means the UN Recommendations on the Transport of Dangerous Goods – Model Regulations, Volumes 1 and 2, which are guidance documents developed by the United Nations to harmonise dangerous goods transport regulations, may be updated from time to time, and are commonly known as the UN Orange Book.

6.2 ABBREVIATIONS

Abbreviation	Description
ACM	Asbestos Containing Material
AIA	Approved Inspection Authority
ERE	Eskom Real Estate
Dx	Eskom Distribution
GC	Gauteng Cluster
CNC	Customer Network Centre

7. RELATED/SUPPORTING DOCUMENTS

Not applicable

8. ROLES & RESPONSIBILITIES

i) **Team leader**

a) To ensure that a task specific risk assessment gets carried out with all employees, contractors or visitors involved, prior to the commencement of any task.

b) To ensure that an inspection of the work area is carried out together with all employees, contractors or visitors involved in the asbestos project.

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c) Ensure all fall arrest equipment is inspected, worn correctly & that the correct harnesses for the task at hand are in use.

d) Ensure that a daily is done and all work is being performed safely.

e) Ensure that all work carried out is done in accordance with the Asbestos Abatement Regulations, 32-303 Eskom Asbestos Management Standard and the Asbestos plan of work.

ii) **The Asbestos supervisor** shall ensure that:

a) All employees, contractors and\or visitors involved in Asbestos work activities are trained and competent.

b) Risk assessments will be completed before the start of each working day/task performed.
c) All employees and contractors performing work or entering the project area undergo a SHEQ Induction.

d) That all workers are declared medically fit and First medicals to be conducted before starting the activities & exit medicals to be done when the activities of this contractor scope of work are completed.

e) All safety harnesses and lanyards to be used are inspected and certified safe for use by an approved inspection authority.

f) There is a decontamination unit situated onsite next to the work area where the asbestos work is going to be performed. The decontamination unit must have a “clean area” on the one side and a “dirty area” on the other.

g) Ensure safe removal, transportation and disposal of Asbestos waste.

h) Provide to persons who may have incidental asbestos exposure, information, instruction and training in line with Asbestos Abatement Regulations requirements.

i) An approved Inspection Authority will be appointed to perform the air monitoring and the reporting thereof.

Approved inspection authority (AIA)

The responsible AIA will perform an oversight role to ensure compliance with the Asbestos Abatement Regulations.

The responsible AIA must:

• Conduct oversight of Registered Asbestos Contractor (RAC) duties and responsibilities (AAR – Regulation 13).

• Approve and submit all asbestos work plans (AAR – Regulation 15).

• Conduct air monitoring and issue a written report, which includes findings and, where necessary, recommendations (AAR – Regulation 16).

• Conduct asbestos clearance functions and issue a clearance certificate (AAR – Regulation 22). Assist in settling disputes, if required and where asbestos work is to be carried out, by means of a decision concerning the type of asbestos work (AAR – Regulation 14).

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Asbestos Compliance Officer

The Asbestos Compliance Officer will co-ordinate/manage asbestos activities on site according to AAR and Asbestos Standard requirements, including the following:

- Operational management of asbestos.
- Identification and assessment of asbestos.
- Compiling and maintaining the asbestos inventory, phase-out plan, and management plan applicable to the site of responsibility.
- Information, instruction, and training.
- Oversight of duties of persons who may be exposed to asbestos.
- Control of asbestos exposure.
- Labelling of asbestos.
- Repair and removal of asbestos.
- Ensuring that asbestos work is performed according to approved asbestos work plans.
- Phasing out existing asbestos.
- Disposal functions of asbestos.
- Appointment of an AIA.
- Oversight of air-monitoring duties.
- Oversight of RAC, that is, compliance and competence functions.
- Oversight of asbestos clearance duties.
- Regulated asbestos area functions.
- Personal protective equipment and facilities duties.
- Incidental asbestos exposure management, including reporting of incidents.
- Prohibition of the use, manufacturing, import, and export of asbestos.
- Recording of information on the applicable templates.
- Submission of reports and/notifications to relevant authorities, according to required timelines.

Environmental practitioners

The Eskom and/or contracted environmental practitioners are responsible for the following:

- Oversee and/or ensure the safe disposal of the asbestos material to a registered hazardous waste disposal facility.
- Keeping records (e.g. safe disposal certificates) of all documentation regarding disposal according to the requirements stipulated in the applicable asbestos work plan and legal requirements.
- Reporting on the disposal figures and the practices followed to the responsible manager of the BU of concern.

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9. AUTHORISATION

This document has been seen and accepted by:

Name	Designation	Signature
Mdu Ndawo	Middle Manager SHEQS	
Kith Maitisa	Middle Manager Properties	
Phumzile Mlangeni	Project Manager	
Charmaine Mare	Environmental Manager SHEQS	PP
Khetho Magwaza	Snr Advisor Occ. Hygiene& Safety	
Kenneth Hlungwane	Snr Advisor Occ. Hygiene& Safety	

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