

	OHS REQUIREMENTS FOR NATURAL GAS	Template Identifier	240-73418055	Rev	2
		Document Identifier	240-155704525	Rev	3
		Effective Date	28 September 2022		
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Project Name: Natural Gas

**Project Address: Ankerlig Power Station (Cape Town)
Gourikwa Power Station (Mossel bay).**

Scope of the project:

THE SUPPLY, STORAGE, DELIVERY AND OFF-LOADING / TRANSFER OF NATURAL GAS TO ANKERLIG AND/OR GOURIKWA POWER STATION/S INCLUDING PROJECT MANAGEMENT, DESIGN, SUPPLY, INSTALLATION, TESTING, COMMISSIONING OF THE COMPLETE GAS SUPPLY LOGISTIC SOLUTION TO TRANSFER AND RE-GASIFY (IF APPLICABLE) THE GAS FROM THE DELIVERY SYSTEM TO THE POWER STATIONS FOR A PERIOD OF FIVE (5) AND TEN (10) YEARS

Compiled by

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1. INTRODUCTION

Zero harm is one of ESKOM values. The aim of Eskom's adoption of Zero Harm as one of its values is to strive to and achieve world class safety, health, and environmental performance, where all Guardians (employees and Contractors) return home safely every day.

The OHS requirements below stipulate the minimum requirements for tenderers which are required to be met for the duration of the contract period by the Engineering, Procurement and Construction (EPC) Contractor and Contractors.

Note 1: All the requirements listed hereunder are in relation to the contract and do not supersede or replace any organisational OHS requirements.

Note 2: Please note that there will be Eskom site specific requirements that will be made available to the EPC Contractor and Contractors to comply with.

Note 3: Omissions of this OHS Requirements

By drawing up these OHS requirements, Eskom has endeavoured to address the most critical aspects relating to OHS issues to assist the EPC Contractor in adequately addressing the health and safety management of persons on site.

Should Eskom not have addressed all aspects pertaining to the work that is tendered for, the EPC Contractor needs to ensure that all applicable OHS requirements are identified and included in their management system, OHS Plan, OHS Specification, policies, standards, and procedures.

1.1 CONSTRUCTION WORK SPECIFIC REQUIREMENTS

When the activities fall within the definition of Construction Work in accordance with the Construction Regulations 2014 of the OHS Act 85 of 1993, then the EPC Contractor would be required to conform to applicable Construction Regulations 2014

As a result of the nature and scope of this contract, roles, and responsibilities that the Engineering, Procurement and Construction (EPC) Contractor shall be fulfilling, it is to be noted that the duties of the client as referred to in the Construction Regulations 2014 (CR5) of the OHS Act, shall also be fulfilled and complied with in addition to the other applicable statutory OHS requirements.

The EPC Contractor as a legal entity, and therefore an employer in their own right (in terms of Section 37(2) of the OHS Act 85 of 1993 (OHS Act), is and remains accountable for the quality and the execution of the safety, health and environmental programme for their employees and contractor employees on this project.

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Where a Construction Work permit is required as contemplated in the Construction Regulations 3(1) of 2014, the EPC Contractor shall appoint a competent Construction Health and Safety Agent (CR 5 (5)) on a full-time basis to apply for such Construction work permit.

The appointed person must be registered with the approved statutory body, South African Council for the Project & Construction Management Professions (SACPCMP).

The appointed Construction Health and Safety Agent shall:

- Manage the health and safety on a construction project for the EPC Contractor during the Project Life Cycle in terms of Construction Regulations and all applicable statutory OHS requirements.
- Prepare a baseline risk assessment for an intended construction work project
- Prepare a site and scope specific health and safety specification for the intended construction work based on the baseline risk assessment, which shall be issued to contractors during the tender enquiry.
- Attend design meetings and review and evaluate design concepts and advise on health and safety related matters during the design phase.
- Ensure that the designer is provided with a copy of the OHS Specification in accordance with the requirements of the CR 6 (1) and that the designer takes into consideration the health and safety specification provided by the EPC CHSA.
- Where a Construction Work permit is required as contemplated in the Construction Regulations 3(1) of 2014, the appointed CHSA shall apply for such Construction permit.
- Liaise and collaborate with the Eskom Health and Safety Manager/CHSA/ Representatives at agreed intervals. The intent is to ensure that the legal requirements and Eskom requirements are met.

The EPC Contractor shall provide contractors who are tendering to perform construction work with the relevant OHS specification contemplated in CR 5 1(b) pertaining to the construction work which has to be performed. The OHS specification shall adequately address their specialised activities and scope of operation.

The EPC Contractor is expected to provide an OHS plan based on the requirements of this document, as well as a draft Project OHS Specification (in terms of CR5 1 (b)) with the tender for the proposed scope of work which meets these requirements as well as the relevant applicable legislation.

The EPC Contractor shall ensure that Contractors comply with the requirements of Construction Regulations 2014, of the OHSACT 85 Of 1993 (including Construction Regulations 7).

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1.1.1 Management and Supervision of Construction Work

The EPC Contractor shall ensure that the performance of all specified work is managed and supervised in accordance with the requirement of OHS Act CR 8 throughout the contract period.

The Contractor shall ensure that the performance of all specified work is supervised throughout the duration of the Contract by a sufficient number of competent appointed representatives of the Contractor, who have experience in the type of work specified.

No work shall commence and/or continue without the presence of an appointed competent Construction Manager, Construction Health & Safety Manager/Officer, Construction Supervisor, or appointed Construction Supervisor Assistants in accordance with Construction Regulation requirements during execution of the work. These supervisors shall be fluent in the language of communications as defined under the Contract.

Construction Managers are required to be registered as professionals with the SACPCMP.

The EPC Contractor is required to ensure that resourcing is in accordance with Project Plan and Schedule for life of work. An estimation of key activities is required to be identified for the life cycle of the project and resource plan requires aligning accordingly. The number of appointed persons shall be determined by the size and the risk of the project.

1.1.2 Construction Health and Safety Manager/s and Officer/s

The EPC Contractor and Contractors shall appoint full-time Construction Health and Safety Professionals considering the nature, risk and the scope of work being performed in accordance with the requirement of CR 8 (5)(6). The Construction Health and Safety Professionals are required to be registered as professionals with the SACPCMP

When there is an amendment to the Acts and/or to the regulations, the OHS plan must be reviewed, updated accordingly and changes must be communicated to all relevant employees

2. SUPPORTING CLAUSES

2.1 SCOPE

These requirements set out Eskom's expectations regarding the minimum OHS statutory and Eskom requirements for the EPC Contractor and Contractors appointed for the contract.

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2.2 PURPOSE

To provide the tenderer/s with Eskom's minimum requirements that they can use to respond and provide relevant OHS bidding documents which will be assessed by Eskom to determine if the tenderer is competent in respect to OHS management for the contract.

2.3 APPLICABILITY

These requirements are applicable to the Contractor, herein referred to as the EPC Contractor, appointed for the contract.

2.4 EFFECTIVE DATE

These OHS requirements shall be implemented from date of approval.

3. NORMATIVE/INFORMATIVE REFERENCES

Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs.

3.1 NORMATIVE

- [1] Basic Conditions of Employment Act No 75 of 1997.
- [2] Occupational Health and Safety Act and Regulations No 85 of 1993.
- [3] Pressure Equipment Regulations 2009 of the OHS ACT 85 of 1993
- [4] National Road Traffic Act 93 of 1996.
- [5] Piped Gas Industry (Gas Act ,2001 (Act no 48 of 2001)
- [6] Petroleum Pipelines Industry (Petroleum Pipelines Act, 2003 (Act no 60 of 2003)
- [7] Hazardous Chemical Agents Regulations, OHS Act No 85 of 1993.
- [8] Disaster Management Act 57 of 2002 and Regulations promulgated thereunder
- [9] 32-27: Safety, Health, Environment and Quality Policy.
- [10] 32-37 Eskom Substance Abuse Procedure
- [11] 240-62196227: Life-saving Rules Standard
- [12] 240-155373927: Eskom COVID-19 Health and Safety Policy Statement
- [13] All Directives issued by the Department of Employment and Labour & in respect of COVID-19
- [14] Compensation for Occupational Injuries and Diseases Act
- [15] 32-345 Eskom Vehicle Safety Specifications,
- [16] 32-124 Eskom Fire Risk Management,
- [17] 32-1126 Smoking Policy,
- [18] 32-123 Emergency planning standard,
- [19] 32-95 OHS Incident Management Procedure

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3.2 INFORMATIVE

- [20] Tobacco Products Control Act 83 of 1993 (Updated 2011.05.19)
- [21] SANS 1186 Symbolic Safety Signs
- [22] SANS 10228
- [23] SANS 342 Automotive Fuels – Requirements And Test Methods For Diesel
- [24] SANS 10228: The Identification and Classification of Dangerous Substances And Goods
- [25] SANS 10229: Packaging of Dangerous Goods for Road And Rail Transportation in South Africa
- [26] SANS 10230: Transportation of Dangerous Goods – Inspection Requirements for Road Vehicles
- [27] SANS 10231: Transportation of Dangerous Goods – Operational Requirements for Road Vehicles
- [28] SANS 10232-1: Emergency Information Systems – Part 1- Road Transportation
- [29] SANS 10232-3: Emergency Information Systems – Part 3 : Emergency Response Guide
- [30] Constitution Of the Republic Of South Africa No 108 Of 1996
- [31] 32-95 Eskom Procedure Manual For Performing Occupational Health & Safety Management & Environmental Management: Conducting EH&S Incident Management,
- [32] 240-62946386 Eskom Vehicle and Driver Safety Management Procedure
- [33] 240-43848327- Employees' right of refusal to work in an unsafe condition

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4. DEFINITIONS

Baseline risk assessment: baseline operational risks refer to the health and safety risks associated with all standard processes and routine activities in the business.

Competent Person: means a person who has in respect of the work or task to be performed the required knowledge, training and experience and, where applicable, qualifications, specific to that work or task: Provided that where appropriate qualifications and training are registered in terms of the provisions of the National Qualification Framework Act, 2000 (Act No.67 of 2000), those qualifications and that training must be regarded as the required qualifications and training; and is familiar with the Act and with the applicable regulations made under the Act;

Contract: is an agreement with conditions between Eskom and the EPC Contractor where an adjudication authority has approved a scope of work to be completed in a specific time frame and within a specified value.

Contractor: These are companies (e.g., suppliers etc.) that are contracted by the EPC Contractor in relation to the scope of work.

EPC Contractor: means an employer appointed/ contracted by Eskom to perform the scope of work.

Hazard: means a source of, or exposure to danger.

Medical surveillance: means a planned programme or periodic examination (which may include clinical examinations, biological monitoring, or medical tests) of employees by an occupational health practitioner or, in prescribed cases, by an occupational medicine practitioner

Method Statement: is a written document detailing work procedures and sequences of operations.

Occupational Health and Safety file: means a file or other record in permanent form, containing the information on the OHS management system during the execution of the Contract.

OHS Plan: means a site, activity or project specific documented plan in accordance with Eskom's health and safety requirements.

Planned Task Observation: is an independent observation made during the planned period in which the task is being executed.

Pre-Task Risk Assessment (Daily Safety Task Instruction - DSTI): a meeting which is held prior to the commencement of the day's work with all relevant personnel associated with the work task in attendance.

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Safe Work Procedures: Safe work procedures are a series of specific steps that guide a worker through a task from start to finish in a chronological order. Safe work procedures are designed to reduce the risk by minimizing potential exposure.

5. Abbreviations

<i>Abbreviation</i>	<i>Description</i>
CE	Chief Executive
COID Act	Compensation for Occupational Injuries and Diseases Act
DoEL	Department of Employment and Labour
EPC	Engineering, Procurement and Construction
GAR	General Administrative Regulations
GSR	General Safety Regulations
HCA	Hazardous Chemical Agents
MSDS	Material Safety Data Sheets
OHS Act	Occupational Health and Safety Act and Regulations, 85 of 1993
SABS	South African Bureau Standard
SANS	South African National Standard

6. RELATED/SUPPORTING DOCUMENTS

[1.] 37.2 Mandatary Agreement between Eskom and EPC Contractor

7. OHS REQUIREMENTS

7.1 SCOPE OF WORK

The scope of work entails the supply, storage, delivery, and off-loading / transfer of natural gas to Ankerlig and/or Gourikwa power station/s including project management, design, supply, installation, testing, commissioning of the complete gas supply logistic solution to transfer and re-gasify (if applicable) the gas from the delivery system to the power stations for a period of five (5) and ten (10) years

8. LEGAL COMPLIANCE

8.1 SECTION 37(2) (LEGAL) AGREEMENT

A section 37(2) agreement must be signed between Eskom and the appointed EPC Contractor at the time of awarding the contract.

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This agreement will set about the arrangements and procedures for the management of health & safety between the two parties to ensure that continual compliance to the OHS Act.

If the EPC Contractor appoints Contractors to perform the task, the EPC Contractor must ensure that a mandatory agreement in terms of section 37(2) of the OHS Act is signed between EPC Contractor and the appointed Contractors.

8.2 OHS ACT

The EPC Contractor and appointed Contractors shall have an up-to-date copy of the OHS Act and regulations which will be available to all employees.

8.3 LEGISLATIVE COMPLIANCE

The EPC Contractor and appointed Contractors shall comply with the following relevant statutory requirements pertaining to this contract:

- The Constitution of the Republic of South Africa (particularly Section 24 of the Bill of Rights).
- Occupational Health and Safety Act 1993 (Act 85 of 1993) and its Regulations.
- Compensation for Occupational Injuries and Diseases Act.
- Pressure Equipment Regulations 2009 of the OHS ACT 85 of 1993
- Construction Regulations 2014 of the OHS ACT 85 of 1993 (where applicable)
- National Road Traffic Act 93 Of 1996
- All relevant South African legislation (national, provincial, and local)
- Applicable South African National Standards (SANS) for the scope of work/Project.
- Hazardous Chemical Agents Regulations, OHS Act No 85 of 1993.
- Ergonomics Regulations 2019, OHS Act No 85 of 1993
- Driven Machinery Regulations

Please note: When the activities fall within the definition of Construction Work in accordance with the Construction Regulations 2014 of the OHS Act 85 of 1993, then the EPC Contractor and Contractors are required to conform to applicable Construction Regulations 2014 requirements.

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9. COVID 19

The EPC Contractor and appointed Contractors shall ensure that measures required by the applicable latest COVID-19 directives, guidelines and work instructions are complied with.

10. ESKOM REQUIREMENTS

The EPC Contractor and appointed Contractor/s shall ensure that all their employees, undergo the relevant Occupational Health and Safety induction pertaining to the hazards prevalent to the scope of work and on site prior to starting the works and must ensure that all employees have the necessary personal protective equipment.

Should the EPC Contractor appoint Contractor/s, the EPC Contractor would then have the same role and responsibility in relation to the Contractors, in a similar way as Eskom has in relation to the EPC Contractor

The EPC Contractor is directly accountable for the actions of his/her Contractors. The EPC Contractor will also be responsible for initiating any remedial action (recovery plan) that may be necessary to ensure that Contractors complies with all requirements.

The EPC Contractor shall ensure that the Contractors appointed have the necessary competencies and resources to perform the work safely.

Eskom shall stop an EPC Contractor and any Contractor from executing their duties which poses a threat to the safety and health of persons or the environment.

The EPC Contractor shall ensure that the design, supply, installation, storage, delivery, and off-loading / transfer of the product to site is compliant to all applicable health and safety statutory requirements.

10.1 APPOINTMENT OF AN EPC CONTRACTOR

The EPC Contractor shall be appointed by Eskom on the awarding of the contract and will be responsible and accountable for all applicable legislation and Eskom requirements for the duration of the contract.

Note: Copies of appointments must be kept in the respective OHS file.

10.2 APPOINTMENT OF CONTRACTORS

The EPC Contractor may appoint Contractors to assist in the contract. All appointments shall be done in writing and will form part of the OHS plan that is required to be submitted to Eskom. Adequate training and instruction must be given to the appointees and the EPC Contractor must ensure that all the appointed Contractors understand their roles and responsibilities.

Note: Copies of Contractor appointments must be kept in the respective OHS file.

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10.3 OHS POLICY

The EPC Contractor and appointed Contractor companies shall each have an OHS Policy authorised by their Chief Executive (OHS Act Section 16(1) appointee) that clearly states overall OHS objectives and commitment to improving Health and Safety performance and must be shared with all stakeholders.

Eskom has a SHEQ Policy that clearly states the policy principles by which Eskom operates and the commitment to SHEQ excellence and is authorised by the Eskom Group Chief Executive. (See Annexure B)

10.4 COID

The EPC Contractor shall submit proof of registration and letter of good standing with the compensation fund or with a licensed compensation insurer for his company and each of his/her Contractors'; based on South African legislative requirements. This must remain valid for the duration of the contract. The Letter of Good Standing shall reflect the name of the Company

10.5 PERSONNEL HEALTH / HYGIENE FACILITIES

The EPC Contractor and appointed Contractors will ensure that drivers who are travelling long distances and employees working in remote areas are well taken care off on the matters of health and hygiene, e.g., ablution facilities, drinking water, changing areas and lockers etc.

10.6 OCCUPATIONAL HEALTH, HYGIENE AND REHABILITATION,

The EPC Contractor and appointed Contractors are required to develop an Occupational Health, Hygiene and Rehabilitation programme. The programme is intended to ensure that the risks to health are identified and controlled.

10.6.1 Medicals

Note: Eskom will only accept medical surveillances conducted by an Occupational Health Practitioner who holds a qualification in occupational health.

1. The EPC Contractor shall ensure that all employees (including Contractor employees) are registered on a medical surveillance programme and are in possession of a valid medical fitness certificate. The certificate of fitness should be relevant to the type of work (risk based) that the employee will be exposed to. This will require each employee to have a risk-based person job specification that will be used as a basis for medical examination.

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2. The EPC Contractor shall ensure that his / her employees and contractor employees have undergone pre-entry medical examination before starting work on the contract.
3. The frequency to renew the medical fitness certificate shall be determined by the risk profile and or in accordance with the recommendation of the medical practitioner.
4. On completion of the project an exit medical examination shall be conducted.
5. The EPC Contractor shall keep a documented process for managing those employees who are issued with a conditional certificate of fitness.

10.6.2 Health and wellness

The EPC Contractor and appointed Contractors shall submit details of their Employee Health and Wellness Programme as part of their Health and Safety Plan which should support for their employees and include awareness training.

10.7 ORGANISATIONAL STRUCTURE & COMPETENCIES OF KEY APPOINTEES

The EPC Contractor shall provide an organisational organogram related to this project, listing all the levels of responsibility from the Chief Executive down to the supervisors responsible for the project. The diagram must list the names of appointees and their roles and responsibilities.

For the duration of the contract, the EPC Contractor shall ensure that competent persons are appointed in writing in terms of the requirements of the OHS Act 85 of 1993 and its Regulations; and/or other statutory requirements. All their appointees are to be made aware of their accountabilities and responsibilities and be suitably trained in terms of their appointment. The EPC Contractor is to advise and assist these appointees in the execution of their duties.

Copies of all the appointments shall be kept in the OHS File during the project duration. All organograms shall be updated timeously and filed in the project OHS file when appointments are changed.

The EPC Contractor shall make available a comprehensive and updated list of all the contractors on site accountable to the EPC Contractor, the agreements between the parties and the type of work being done.

10.7.1 APPOINTMENTS

For the duration of the contract, the EPC Contractor shall ensure that all statutory appointments and appointments required by the legislation are in place, and that all appointees fully understand their responsibilities and are trained and competent to execute their duties.

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10.8 ROLES AND RESPONSIBILITIES

The EPC Contractor shall:

- conduct random inspections and audits to their own contractors and copies of such reports shall be made available to Eskom.

The EPC Contractor and appointed Contractors shall:

- be required to list employee's roles and responsibilities pertaining to the contract.
- have and effectively implement a fatigue management plan for employees to ensure fatigue is managed to prevent incidents (i.e., resting period etc.)
- ensure all employees have the relevant competency and understanding of the risks they are exposed to (including truck drivers sent to site).
- ensure compliance with the Occupational Health and Safety Act, site specific OHS requirements and all other applicable Regulations, standards, and legislations during the execution of the contract.

10.9 RISK ASSESSMENTS

10.9.1 BASELINE RIKS ASSESSMENTS

The Project construction health & safety baseline risk assessment will be the responsibility of the EPC Contractor.

The EPC Contractor will provide the necessary baseline risk assessment across the various stages of the project as required per the services and deliverables.

Offloading of the product must form part of the site risk assessment processes and procedures.

The baseline risk assessment should include inputs from designers, specialists, or other parties deemed necessary by the Contractor.

In accordance with the legal requirement in terms of Section 8 (2)(d) of the OHS Act, as an employer, the EPC Contractor shall carry out risk assessments to establish what hazards to the health and safety of persons are attached to any work which is performed, any article or substance which is, handled, stored, transported.

A risk assessment is defined as an identification of the hazards present in an organisation and an estimate of the extent of the risks involved, taking into account whatever precautions are already being taken. It is essentially a three-stage process:

- identification of all hazards.
- evaluation of the risks.
- measures to control the risks.

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Risk assessments are required to be maintained. This means that significant changes to a process or activity, or any new process or activity should be subjected to a risk assessment and that if new hazards come to light during the work process, then these should also be subjected to risk assessments. Risk assessments for long term processes should be periodically reviewed and updated.

Prior to any employee commencing their duties, the content of the risk assessment must have been communicated to them.

10.9.2 Format of Hazard Information

The methodology to be used to perform the identification of hazards is up to the Service Provider and can be presented in a qualitative or quantitative format.

The following hierarchy of controls shall be applied to the hazards that are identified:

- Elimination
- Substitution
- Engineered solutions
- Administrative

Controls can be a combination of the above.

10.9.3 Potential High Level OHS Risks and Suggested Mitigating Factors (but should not limited to the following):

RISKS	Suggested Mitigating Factors	Responsible Person
• Non-Compliance to applicable legislations and standards	Identify all applicable OHS legislation, standards, training and permits related to the scope of work. Ensure compliance to all applicable legislations and standards related to the scope of work All vehicles used by the EPC Contractor and appointed Contractors for execution of this Contract shall meet the legislative requirements pertaining to the National Road Traffic Act Apply for the permit with relevant authorities where applicable. Ensure that the design, supply, installation, storage, delivery, and off-loading / transfer of the product to site is compliant with all applicable health and safety statutory requirements.	EPC Contractor & appointed Contractors

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	Ensure that all employees are made aware of their accountabilities and responsibilities and have been suitably trained in terms of their duties.	
Fatigue.	The EPC Contractor and appointed Contractors shall have a fatigue management plan that is risk based for the employees to ensure fatigue is managed to prevent incidents (i.e., resting period etc.) (including drivers and employees working long hours in remote areas etc.)	EPC Contractor & appointed Contractors
Increased Volume of traffic in the area	To be considered in the Traffic Management plan Movements of vehicles and pedestrian on the project and surrounding areas. Also include potential for labour/contractor unrest.	EPC Contractor
Unavailability /lack of medical services	The EPC Contractor shall provide a detailed plan on the provision of medical and emergency services and assistance at all times on the project.	EPC Contractor
Delivery and off-loading of Products.	To be considered in the Traffic Management plan, taking into account the road conditions.	EPC Contractor
Storage of Hazardous Chemical Agents on site	Comply with the Hazardous Chemical Agent Regulations of the OHS Act and Major Hazard Installation Regulations (if applicable).	EPC Contractor
Spillages, explosives, and fire	Fire Safety and Emergency Preparedness Plan, including the provision for resources and equipment to perform these activities on the project.	EPC Contractor
Employees working in remote areas/ veld exposed to snake bites and bee stings	The Contractor to have and implement a vector control and snake management Procedure.	EPC Contractor

10.10 PUBLIC SAFETY

Legislation requires that employers shall be responsible, as far as reasonably practicable, for safeguarding persons other than those in their employment who may be directly affected by their activities so that they are not exposed to hazards to their health and safety (Section 9 of the OHS Act).

The EPC Contractor and Contractors shall factor into their safety plan how they intend safeguarding/ controlling any members of the public against their activities during the project

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10.11 HIGH RISK ACTIVITIES

When the EPC Contractor and/or his/her contractors are working in an area where a high health and safety hazard exists, the EPC Contractor shall:

- Ensure that permanent and adequate supervision is available for the entire duration of the work that is being conducted.
- Ensure the use of safety standbys in areas of high-risk activities and activities that fall within the scope of the permit to work system.
- Provide, erect, and maintain all the required barricading, lighting, flags, flashing lights, or other safety control equipment to enable operations to proceed in a safe manner.
- Maintain, at all times, defined access ways, which are clear of objects or obstructions, to allow for emergency vehicle entry; and
- Provide, at their own cost, any temporary protective shielding required for protecting nearby operations from the construction activities,

10.12 METHOD STATEMENT, SAFE WORK PROCEDURES AND PRACTICES

The EPC Contractor shall compile project specific method statements and safe work procedures for all the high-risk activities as identified in the risk assessment and scope of work.

The supervisor / team leader shall ensure that all employees are trained on all applicable safe work procedures.

10.13 PLANNED TASK OBSERVATIONS (PTO)

The EPC Contractor shall provide the planned task observation procedure or process not limited to the following:

- Persons responsible for monitoring the task and carrying out the Planned Job Observation must be the supervisor.
- Planned job observations should be conducted in such a way that the employee is observed against the actual steps (of the written safe work procedure) to be followed when performing a task and be marked against compliance with each step. This will assist in determining employee competence and compliance. Records should be kept at all times.
- Where the employee did not comply or did not follow the required steps, this should be indicated on the report and actions be taken to correct the deviation.

10.14 HEALTH & SAFETY COSTING

It is the responsibility of the EPC Contractor to ensure that they have costed sufficiently to ensure compliance to Health and Safety requirements in executing this contract

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10.15 PERSONAL PROTECTIVE EQUIPMENT (PPE)

It remains the EPC Contractor's responsibility to ensure that all the employees and Contractors are provided with the required personal protective equipment to perform their duties safely.

The type of PPE provided by the EPC Contractor to their employees and Contractors shall be guided by the scope of work and the risk assessment performed.

All PPE provided must meet the required SANS code for that specific PPE.

10.16 ISSUE, REPLACEMENT AND CONTROL OF PPE

The EPC Contractor must provide a detailed procedure with a matrix on the issuing, maintenance, and replacement of PPE for all his employees and Contractors on site.

The EPC Contractor is required to keep an updated register of all PPE issued, including that of his employees and Contractors

10.17 CELLULAR PHONES

Cell phone usage shall not be permitted in areas where they are prohibited.

10.18 SMOKING

The EPC Contractor shall provide a Smoking policy

Smoking on site is only permitted at designated areas in accordance with the requirements of the smoking policy aligned to the Eskom standards relating to Smoking of Tobacco products at a workplace. (32-1126:).

10.19 SUBSTANCE AND DRUG ABUSE MANAGEMENT

The EPC Contractor shall provide a Substance Abuse management policy

Alcohol and substance abuse poses a significant threat to any business, more so in industrial incidents and the driving of vehicles. Eskom is therefore, entitled to take reasonable steps to ensure that intoxicated persons are identified and prevented from entering site.

General Safety Regulation 2A is clear on the legal stance regarding intoxication.

10.20 DRIVING AND VEHICLE OPERATION

All vehicles used by the EPC Contractor and appointed Contractors for execution of this Contract, shall meet the legislative requirements pertaining to the National Road Traffic Act

Vehicles may only be driven by a person who has a valid South African driving licence, which is valid for the class of vehicle being operated.

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It is the responsibility of drivers to ensure that:

1. They and their passengers wear seat belts whilst the vehicle is in motion. (Eskom Life-Saving Rule)
2. They comply with all traffic road rules, safety, direction, and speed signs.
3. Their vehicle is in a safe operating condition and is always roadworthy.
4. Their vehicles are serviced and maintained according to the manufacturer's specifications.

When on Eskom property, the driver shall ensure they do not:

1. Leave vehicles unattended with the engine running; and
2. Park vehicles in unauthorised zones/areas.

When performing work for Eskom, the EPC Contractor shall ensure that no employees, including contractor employees, are transported at the back of bakkies / vans and trucks.

10.21 INCIDENT INVESTIGATION

All incidents shall be investigated in terms of OHS Act General Administrative Regulations 8 and 9, and where injuries as contemplated in sections 24 and 25 have been sustained, be reported to the Department of Employment and Labour.

The EPC Contractor and appointed Contractors shall use the standard General Administrative Regulation Annexure 1 "Recording of an Incident" form for all incident investigation reports. The objective of incident investigation, not only being a legal requirement, is to establish why and how the incident occurred, but to find out the real causes of the incident and to decide on precautionary measures that are required to address the causes to prevent any further recurrences of the same or similar incidents.

The EPC Contractor shall ensure that all incidents are reported immediately or within the specified time frames to relevant stakeholders (including Eskom).

The EPC Contractor shall have an effective process and systems in place for risk and incident management. Eskom shall have access to the processes/systems

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10.22 FATIGUE MANAGEMENT

The EPC Contractor and appointed Contractors shall have a fatigue management plan that is risk based for the employees to ensure fatigue is managed to prevent incidents (i.e., resting period etc.) (including drivers and employees working long hours in remote areas etc.)

A Driver fatigue management plan shall cover but not limited to the following:

- resting time,
- rest stops after exceeding the prescribed driving time
- enough rest the night before driving etc.
- route planning

10.23 TRANSPORTATION OF NATURAL GAS

The condition of the intermediate bulk containers, rail and road tank vehicles and shipping cargo tanks shall be of sound construction, clean, dry and of suitable material such as not to be detrimental to the quality of the natural gas during normal transportation and storage.

Couplings and hoses connecting to the gas off-loading point must be maintained in a safe condition.

10.24 CARGO SHEDDING / SPILLAGES

The EPC Contractor must have a procedure / process on how to contain spillages on National Roads and on Eskom sites. All employees including Contractors must be trained on the process.

10.25 ISO CONTAINERS

Should the EPC Contractor decide to provide an ISO Container to facilitate the temporary storage of Natural gas outside the Eskom premises, the Supplier is to ensure all hazards and risks related to this storage vessel is adequately and effectively communicated to Eskom, and that requisite emergency procedures around these are provisioned for and communicated to Eskom.

ISO containers must be maintained to manufacturers safety requirements and international best practice.

The valves and gaskets must be regularly inspected to ensure that the off-loading of Natural gas into them is always done safely.

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10.26 NATURAL GAS PIPELINE

Where the EPC Contractor decides to provide a Natural Gas Pipeline to the relevant Eskom Power Station, it will be the responsibility of the EPC Contractor to build, maintain and operate such Pipeline up till the tie in point of the Eskom Power Station.

All Natural Gas Pipelines will comply with both local and international laws and Oil & Gas industry best practice in terms of Occupational Health & Safety to ensure the safe supply of Natural Gas to Eskom.

It will be the responsibility of the EPC Contractor to inform and discuss with Eskom any health & safety risks that are posed to the relevant Eskom Power Station from the provision of a Natural Gas Pipeline, including any operational and emergency related risks.

When the activities fall within the definition of Construction Work in accordance with the Construction Regulations 2014 of the OHS Act 85 of 1993:

- EPC Contractor would be required to comply with applicable Construction Regulations 2014 and the EPC Contractor shall ensure that adherence to this is strictly enforced.
- Where a Construction Work permit is required as contemplated in the Construction Regulations 3(1) of 2014, it will be the EPC Contractor responsibility to obtain a Construction work permit from the relevant government authority.
- The EPC Contractor shall appoint a competent Construction Health and Safety Agent (CR 5 (5)) registered with the approved statutory body, South African Council for the Project & Construction Management Professions (SACPCMP); to manage the Health and Safety on a construction project at all times during the entire Project Life Cycle.
- The Construction Health and Safety Agent shall advise on health and safety related matters during the design phase.

10.27 HAZARDOUS CHEMICAL AGENTS (HCA)

HCA shall be managed in accordance with HCA Regulations of the OHS Act 85 OF 1993.

Prior to any HCA being brought onto the site, the EPC Contractor and appointed Contractors shall supply Eskom with the Material Safety Data Sheets (MSDS) in accordance with the requirements of the OHS Act

All the requirements with regards to the handling, use and storage of HCA shall be done in accordance with the legislative requirements including HCA regulation and the local authority by-laws. Material SDS shall be available for all chemicals delivered on site.

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10.28 FIRE SAFETY PLAN

The EPC Contractor shall develop and implement an adequate fire safety plan to ensure the overall fire safety, fire prevention and fire protection measures, deemed suitable and necessary for the project.

The EPC Contractor shall enforce the principles of fire safety both on and off the site.

10.29 EMERGENCY PREPAREDNESS AND RESPONSE PLAN

The EPC Contractor shall develop and implement an emergency preparedness and response plan to ensure an adequate level of preparedness, response and recovery for the project, to minimise the impact of an emergency situation pertaining to human life, the environment, security and property. The scope related emergency response plan shall take into consideration the transportation/transfer and storage of dangerous good/products to sites. All employees and affected parties should be trained and made aware of the emergency process and relevant emergency contact details.

The EPC Contractor shall enforce the principles of emergency preparedness both on and off the site.

The hazards related to accidental release, leaks and spillages must be communicated to Eskom to ensure the Eskom site to which the Natural gas is delivered can effectively plan for emergencies. The composition (Methane percentage) of the Natural gas being supplied to Eskom is especially important for Fire emergency preparedness.

The EPC Contractor shall ensure that there is a process or procedure for cargo shedding and spill containment

10.30 GENERAL DUTIES OF MANUFACTURES AND OTHERS REGARDING ARTICLES AND SUBSTANCES FOR USE AT WORK

The EPC Contractor shall ensure compliance with Section 10 of the OHS Act 85 of 1993.

The EPC Contractor shall ensure that training is provided on any emergency actions for various applicable scenarios in case of an incident involving the scope of work. At a minimum this training shall be made available to affected stakeholders.

10.31 MEDICAL AND EMERGENCIES SERVICES.

The EPC Contractor shall investigate various arrangements to ensure access to adequate medical assistance in the event of emergencies.

The EPC Contractor shall provide a detailed plan on the provision of medical and emergency services and assistance at all times on the project.

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10.32 TRAFFIC MANAGEMENT PLAN

The EPC Contractor shall develop and implement an adequate traffic management plan, taking into account the safe access and egress of all anticipated traffic, pedestrians and vehicles to all working areas. Such traffic safety measures shall include the separation of vehicle and pedestrian traffic to prevent injuries. All vehicles shall be operated by competent and authorized personnel

The EPC Contractor shall enforce the principles of road safety both on and off the site. This shall include the control of vehicles on the project, road worthiness, vehicle maintenance programmes, signage, speed limits, flagmen, warning lights and high-level flags if required.

10.33 CONTRACTOR'S SITE FACILITIES

Site facilities shall be established and maintained by the EPC Contractor (refer to OHS Act Construction Regulation 30)

10.34 FORUMS FOR OHS GOVERNANCE AND COMMUNICATION

Effective governance and communication structures shall be established on the where project OHS matters shall be discussed. Attendance registers and minutes shall be kept for all the health and safety meetings. The terms of reference shall be established for each governance structure on the project.

The EPC Contractor/s shall provide a communication plan outlining the discussions and decisions to their staff, the mediums they will employ and how they will measure the effectiveness of their OHS communication.

Every meeting conducted on site shall include OHS as a standing agenda point and minutes of these meetings shall be available on site at all times.

NOTE: These meetings do not replace or act as a substitute for the required OHS statutory meetings.

Statutory OHS Committees in terms of Section 19 and 20 and General Administrative Regulations 5 of the OHS Act and Eskom requirements shall be established where applicable.

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10.35 PERMITS AND LICENCES

The EPC Contractor and Contractors shall ensure that all required Permits and Licences are obtained and kept valid for the duration of the project.

10.36 ESKOM LIFE-SAVING RULES

The objective of this section is to define the rules that are over and above the internal regulations and procedures of Eskom and relevant legislation which will ensure zero harm to persons and the environment. These rules will be specific to the project and site.

Eskom Life Saving Rules

Five Life Saving rules have been developed that will apply to the EPC Contractor and employees, Agents, consultants, Contractors, and visitors. Failure to adhere to these rules will be considered a serious transgression. These rules are being implemented to prevent serious injury or death of any employee, Contractor working in any area within Eskom.

THE RULES ARE:

RULE	DESCRIPTION OF RULE
Rule 1	OPEN, ISOLATE, TEST, EARTH, BOND, AND/OR INSULATE BEFORE TOUCH (That is plant, any plant operating above 1000 V)
Rule 2	HOOK UP AT HEIGHTS Working at height is defined as any work performed above a stable work surface or where a person puts himself/herself in a position where he/she exposes himself/herself to a fall from or into.
Rule 3	BUCKLE UP No person may drive any vehicle on Eskom business and/or on Eskom premises: Unless the driver and all passengers are wearing seat belts.
Rule 4	BE SOBER No person is allowed to be under the influence of intoxicating liquor or drugs while on duty
Rule 5	PERMIT TO WORK Where an authorisation limitation exists, no person shall work without the required permit to work.

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Eskom will take a stance of zero tolerance on non-compliance of these rules

Any non-compliance to any health and safety requirement in this OHS requirement is subject to discipline/removal of person from the project site.

Non-compliance to a Life Saving rule will be considered serious misconduct and will lead to serious disciplinary action, which may include dismissal.

This is to ensure that every person who works on or visits an Eskom site returns home safely to his or her family

No person shall damage, alter, remove, render ineffective, or interfere with anything that has been provided for the protection of the site, or for the health and safety of persons.

No person under the influence of alcohol, drugs, or medication (in a state of intoxication) or any other condition that may render him incapable of controlling himself or of other persons under his charge shall be allowed to enter the site.

All safety and warning signs shall be obeyed at all times.

Pedestrians entering or leaving the Site will only take place at official access control points and may only be done via the official designated walkways.

All employees shall adhere to the OHS and other site-specific rules.

The EPC Contractor must have a process in place to address employees that have contravened Health and Safety Requirements.

10.37 GENERAL WALK-DOWNS (VISIBLE FELT LEADERSHIP)

Management from the EPC Contractor shall lead the site walk downs with the Supervisors and the management representatives from the EPC Contractor at agreed intervals to demonstrate their commitment towards OHS matters and Visible Felt leadership. These sites walk downs will be used to identify both strengths and areas for improvement regarding OHS issues. Site Walk downs will be documented, inclusive of an action plan to close out all deviations noted during such a walk-down.

10.38 OHS PLAN

The EPC Contractor is expected to provide an OHS plan based on the requirements of this document.

10.39 OHS FILE

The EPC Contractor shall develop, provide, and maintain an OHS File with the relevant information as required in this document for the duration of their contract.

Each Contractor shall provide an OHS file for their own scope of work.

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10.40 OHS AUDITS

Eskom reserves the right to monitor and conduct unannounced audits to ensure compliance and provide assurance to Eskom representatives and their key stakeholders.

10.41 CONTRACTOR OHS PERFORMANCE EVALUATION

Eskom shall evaluate contractor OHS performance on an on-going basis against the Eskom and legislative requirements.

10.42 DOCUMENTATION AND RECORDS MANAGEMENT

The EPC Contractor shall establish and maintain a documentation and records management system where all project and scope OHS related documentation and records are kept and maintained.

The OHS file shall be handed over to the Eskom at the end of the EPC Contractor's contract. Eskom shall always have access to this system.

10.43 OHS PERFORMANCE STATUS REPORTS

The EPC Contractor and contractors shall provide an OHS Statistical and Non-Statistical Reports, dashboards, presentations in accordance with Eskom requirements.

Reporting must not be later than the 3rd of every month.

The requirements will be communicated on award of the contract.

10.44 HOURS OF WORK

All work conducted on site shall fall within the legal requirements in accordance with the Basic Conditions of Employment Act.

The EPC Contractor shall be aware of the effects of human fatigue and regulate overtime accordingly. The baseline risk assessment must be reviewed to include the management of overtime work.

10.45 NIGHT WORK

When night work is to be performed; the EPC Contractor shall provide sufficient lighting to enable the entire work site to be illuminated to a degree that employees will not work in dark (un-illuminated) or dimly lit areas. This is especially important for the off-loading of gas during night hours where the Supplier will have to provide their own artificial lighting or discuss the need for task lighting in the area where off-loading is to take place.

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Care must be exercised as not to use few lights with high light intensives as this will cause night blindness.

If work is continuing from day light into night, at dusk, a toolbox talk must be held where all employees will be advised of the hazards of night work and the extra precautions which require to be taken, i.e., poor housekeeping, stepping on uneven ground, stepping into holes etc.

10.46 WORK STOPPAGE

The EPC Contractor will be required to attend and participate in all Work Stoppages called for by Eskom. The Work Stoppage will be co-ordinated via the Eskom site that the EPC Contractor is servicing.

It would be required that the EPC Contractor representatives and management team attend the Work Stoppage.

10.47 EMPLOYEES' RIGHT OF REFUSAL TO WORK IN AN UNSAFE SITUATION

Employees have a duty to take reasonable care of their own as well as other person's health and safety at work and to cooperate with the employer, carry out lawful orders, including reporting unsafe situations and incidents.

Refer to Eskom Procedure 240-43848327- Employees' right of refusal to work in an unsafe situation. The aim of the procedure is to ensure that an environment is created that promotes zero harm by empowering employees and contractors to take responsibility for their own safety and that of others.

The EPC Contractor shall provide an Employees' right of refusal to work in an unsafe situation procedure which is in line with the Eskom Procedure 240-43848327.

NOTE: Work stoppages that are initiated due to OHS related incidents shall not warrant any financial compensation claim lodged against Eskom.

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	OHS REQUIREMENTS FOR NATURAL GAS	Template Identifier	240-73418055	Rev	2
		Document Identifier	240-155704525	Rev	3
		Effective Date	28 September 2022		
		Review Date	August 2026		

11. ANNEXURE A: ACKNOWLEDGEMENT FORM FOR ESKOM OHS RULES & OTHER LEGISLATIVE REQUIREMENTS:

1. It is the duty of the EPC Contractor and appointed Contractors to ensure that they are familiar with all applicable OHS legislations required in accordance with the scope of this contract.

Please note that there may be Eskom Site Specific requirements that will be made available to the EPC Contractor for consideration due to the fact that this scope of work will be conducted on an existing Eskom site.

I, the undersigned, hereby confirm that I, on behalf of
(Name of EPC Contractor Company) will comply with all applicable legislation, specifications and standards in accordance with the scope of the contract and fully understand the consequences of non-compliance.

Signed at on Day of 20.....

Name of Authorised person (CEO/Director/ Managing Director)

Signature

Date

Witness 1

Witness 2

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1. Annexure B: Eskom SHEQ Policy:

Eskom's Safety, Health, Environment and Quality (SHEQ) Policy Poster (32-727) Rev 3



Eskom will integrate and/or incorporate safety, health, environment, and quality requirements through the plan-do-check-act (PDCA) quality cycle in its activities so that decisions made ensure the consideration of economic development, environmental duty of care, and social equity to improve performance and achieve stakeholder requirements continually.

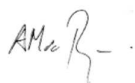
Eskom's commitment to safety, health, environment and quality management is achieved through:

- implementation of management systems in accordance with, but not limited to ISO 9001, ISO 14001, and ISO 45001/OHSAS 18001 requirements;
- fulfilling conformance and compliance obligations/legal and other requirements to which Eskom subscribes and sets to meet the intent of this policy;
- taking overall responsibility and accountability for the prevention of work-related injury and ill health, as well as the provision of safe and healthy workplaces and activities;
- addressing the needs and expectations of Eskom's workers, customers, interested parties, and stakeholders;
- setting safety, health, environment and quality objectives to achieve intended outcomes and measuring performance against these to ensure continual improvement;
- applying risk-based assessment methodologies (that is, conducting hazard identification and risk assessment, fitness for duty assessments, emergency preparedness responses, response to emerging outbreaks, pandemic or epidemic disasters, and medical surveillances) for the opportunity for improvement within the SHEQ management systems;
- conducting safety, health, environment and quality training and creating employee awareness;
- engaging interested parties and stakeholders by promoting open communication and engagement that is safety, health, environment and quality purpose-driven;
- ensuring that processes are in place and measured for Eskom's contractors to meet Eskom's safety, health, environment and quality requirements;
- ensuring that adequate resources are available for safety, health, environment and quality management;
- supporting the establishment and functioning of environment, quality, health and safety committees;
- proactively managing Eskom's environmental footprint, minimising pollution and environmental degradation, pursuing a low-carbon future, and prioritising energy, water efficiency, and conservation within and outside Eskom including transitioning to a cleaner energy mix;
- engaging, directing, and supporting persons to contribute to the effective management of SHEQ requirements;
- ensuring the sustainable use of resources and exploring new opportunities for climate change mitigation and adaptation, and protection of biodiversity, ecosystems, and the prevention of pollution and degradation;
- ensuring continual improvement in SHEQ systems to enhance Eskom's business performance; and
- consultation and participation of workers and worker representatives on OH&S management systems.

Policy principles or rules

Eskom's principles and rules that underpin the way it approaches safety, health, environment and quality are as follows:

- Poor quality performance and occupational health, safety and environmental incidents are preventable.
- SHEQ performance is achieved through a Zero Harm culture. Zero Harm is the prevention of harm to people and the environment brought about through visible and felt leadership, including the implementation of effective controls and practices.
- Management is accountable for setting a safety, health, environment and quality policy, and every employee is expected to ensure implementation and compliance within the scope of their duties.
- Conducting business with respect and care for people, the environment and assets.
- Eskom strives to ensure that Zero Harm befalls its employees, contractors, the public, and the environment:
 - Zero fatalities
 - Zero injuries, ill health
 - Zero environmental incidents
 - Zero tolerance
 - Zero defects
- Eskom's Life-Saving Rules support the intent of the policy and apply to all employees, contractors, and visitors:
 - Open, isolate, test, earth, bond, and/or insulate before touch
 - Hook up at heights
 - Buckle up
 - Be sober
 - Permit to work
- No operating condition, or urgency of service, justifies exposing anyone to risks arising out of Eskom's business, causing an incident with health, safety, environmental and quality consequences.
- Governance, decision-making processes, and plans are based on intended outcomes with regard to safety, health, environment and quality and criteria in line with Eskom values and promote efficiency.



André de Ruyter

GROUP CHIEF EXECUTIVE

Issued by Risk & Sustainability Division August 2020 SHEQ Policy Poster Rev 3 (Review Date August 2025)

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