

Document No	S-BRA-001-00	HEALTH, SAFETY, ENVIRONMENTAL & QUALITY MANAGEMENT	
Revision	01		
Appointment date	13-Jul-26		
Baseline Risk Assessment AS PER CONSTRUCTION REGULATION 5(1)(a), 2014 OCCUPATIONAL HEALTH AND SAFETY ACT, NO. 85 OF 1993 (Latest Edition)			

ANNEXURE B

APPOINTMENT OF A DESIGN AND BUILD CONTRACTOR FOR THE COMPLETION OF THE REFURBISHMENT AND UPGRADING OF THE HUGO BIERMAN BUILDING WITHIN THE SIMONSTOWN NAVAL BASE LOCATED IN THE WESTERN CAPE

(DETAILS)

This document is prepared in terms of
Construction Regulation 5(1)(a). The Baseline Risk Assessment is conducted to obtain a
benchmark of type and size of potential hazards pertaining to the project.
The aim is to identify all major and significant risks.

SUPERVISION BY THE CLIENT
DBSA – DEVELOPMENT BANK OF SOUTHERN AFRICA

SUPERVISION BY THE DESIGN AND BUILD CONTRACTOR
(TBA)

Document No	S-BRA-001-00	HEALTH, SAFETY, ENVIRONMENTAL & QUALITY MANAGEMENT	
Revision	01		
Appointment date	13-Jul-26		
Baseline Risk Assessment AS PER CONSTRUCTION REGULATION 5(1)(a), 2014 OCCUPATIONAL HEALTH AND SAFETY ACT, NO. 85 OF 1993 (Latest Edition)			

TABLE OF CONTENTS

1. OBJECTIVE.....	3
2. SCOPE.....	4-5
3. ABBREVIATIONS AND DEFINITIONS.....	6-10
4. RISK METHODOLOGY.....	11-12
5. RISK ASSESSMENT PROCESS.....	13
6. BASELINE RISK ASSESSMENT.....	14-73
6.1 PROJECT STAGE 1.....	14-18
6.2 PROJECT STAGE 2.....	18-20
6.3 PROJECT STAGE 3.....	20-23
6.4 PROJECT STAGE 4.....	23-25
6.5 PROJECT STAGE 5.....	25-71
6.6 PROJECT STAGE 6.....	71-74
7. ACCEPTANCE.....	74

Document No	S-BRA-001-00	HEALTH, SAFETY, ENVIRONMENTAL & QUALITY MANAGEMENT	
Revision	01		
Appointment date	13-Jul-26		
Baseline Risk Assessment			
AS PER CONSTRUCTION REGULATION 5(1)(a), 2014 OCCUPATIONAL HEALTH AND SAFETY ACT, NO. 85 OF 1993 (Latest Edition)			

1. OBJECTIVE

The objective of this baseline risk assessment is to identify and categorize the significant health, safety, environmental and quality hazards and risks associated with the planning, procurement and construction activities of the project.

This Baseline Risk Assessment is developed in accordance with the requirements of Construction Regulation 5(1)(a) of the Construction Regulations, 2014 issued under the Occupational Health and Safety Act 85 of 1993.

The evaluation of results will assist management to eliminate, minimize or control risks to workers associated with the tasks performed or exposure to the working environment.

The assessment further aims to identify hazards that may arise throughout the lifecycle of the project, including the design, construction, operation, maintenance and decommissioning phases of the infrastructure.

This risk assessment was also conducted to assist management in identifying training needs in order to concentrate efforts where they are mostly needed.

The Baseline Risk Assessment will provide input into the preparation of the project Health and Safety Specification and will inform designers, Professional Service Providers, and the Design and Build Contractor of the significant risks associated with the project.

The assessment also supports the implementation of the “Safety in Design” principles as required in terms of Construction Regulation 6 to ensure that hazards are eliminated or reduced during the design stage as far as reasonably practicable.

Document No	S-BRA-001-00	HEALTH, SAFETY, ENVIRONMENTAL & QUALITY MANAGEMENT	
Revision	01		
Appointment date	13-Jul-26		
Baseline Risk Assessment			
AS PER CONSTRUCTION REGULATION 5(1)(a), 2014 OCCUPATIONAL HEALTH AND SAFETY ACT, NO. 85 OF 1993 (Latest Edition)			

2. SCOPE

This Baseline Risk Assessment considers the full project lifecycle including project initiation, concept and feasibility, design development, procurement, construction, commissioning and project close-out phases.

The purpose of this assessment is to identify and evaluate potential health, safety, environmental and operational risks that may arise during the planning, design and construction of the infrastructure project.

The Baseline Risk Assessment is prepared in accordance with the requirements of Construction Regulation 5(1)(a) of the Construction Regulations, 2014 promulgated under the Occupational Health and Safety Act 85 of 1993.

The Baseline Risk Assessment shall assist in:

- Identifying hazards associated with the project.
- Evaluating the potential risks to workers, the public, property and the environment.
- Determining appropriate control measures to eliminate or reduce risks to an acceptable level.

The findings of this Baseline Risk Assessment will inform the preparation of the project Health and Safety Specification and must be communicated to designers, Professional Service Providers and the Design and Build Contractor to ensure that the identified risks are addressed throughout the project lifecycle.

Document No	S-BRA-001-00	HEALTH, SAFETY, ENVIRONMENTAL & QUALITY MANAGEMENT	
Revision	01		
Appointment date	13-Jul-26		
Baseline Risk Assessment			
AS PER CONSTRUCTION REGULATION 5(1)(a), 2014 OCCUPATIONAL HEALTH AND SAFETY ACT, NO. 85 OF 1993 (Latest Edition)			

2.1 PROJECT SPECIFIC SCOPE OF WORKS

This Baseline Risk Assessment is pertaining to the **appointment of a Design and Build Contractor for the completion of the refurbishment and upgrading of the Hugo Bierman building within the Simonstown Naval Base located in the Western Cape.**

The scope of works will include the following:

Roof

- Screed to create fall and waterproofing (west wing)
- Waterproofing of other wings
- Supply and install missing inlet grates
- Supply and install pipe hot dip galvanised pipe holders and stands (various pipe sizes)
- Address concrete spalling and replace rusted steel plates (compensation event)
- Repair/replacement of shifted concrete beam.
- Replace rusted water valves with suitable material Coper
- Replace damaged straight flexible rubber pipe coupling complete with clamps
- Replace pvc pipes with copper (compensation event)
- Replace pvc downpipe with aluminium
- Securing of the water tanks on top of the roof
- Installation of safety rails
- Beautification/ proper working-off of the Telkom and MTN tower entrances

General

- Maintenance of expansion joints (applicable to all floors, compensation event)
- Trunking/conceal of exposed pipes
- Fire detection
- Servicing of fire hose reels
- Supply and install fire doors including associated ironmongery

Document No	S-BRA-001-00	HEALTH, SAFETY, ENVIRONMENTAL & QUALITY MANAGEMENT	
Revision	01		
Appointment date	13-Jul-26		
Baseline Risk Assessment			
AS PER CONSTRUCTION REGULATION 5(1)(a), 2014 OCCUPATIONAL HEALTH AND SAFETY ACT, NO. 85 OF 1993 (Latest Edition)			

- Supply and install building signage
- Repairs to the lift (compensation event)
- Complete toilet extraction system and conceal ducting
- Toilet backing (compensation event)
- Investigate and repair any leaks on both fresh and wastewater
- Full on inspection on shower roses, soap holders
- Strong rooms – supply and install vinyl tiles (compensation event)
- Strong rooms – supply and install shelving (compensation event)
- Allowance for pipe protection (stone balls, compensation event)
- Allowance for replacement of cast iron pipes with pvc (compensation event)
- Fix pvc balustrade cover in patches
- Service duct in cabins (assess door conditions at remedy where required)
- Cleaning of windows and frames
- Pressure washing of external paving (compensation event)
- Reinstate paving where required
- Paint marking of parking bays (compensation event)
- Supply and install carport shade net (compensation event)
- Connect diesel tank to generator (compensation event)

Kitchen

Main kitchen

- Design and build kitchen (Design to function)
- Installation of existing equipment
- Supply and installation of new equipment (Client to confirm requirements, compensation event)
- Replacement of aluminium counter tops and sinks (compensation event)
- Repair kitchen extraction canopy
- Coldrooms and refrigeration– repair and reinstate (compensation event)

Document No	S-BRA-001-00	HEALTH, SAFETY, ENVIRONMENTAL & QUALITY MANAGEMENT	
Revision	01		
Appointment date	13-Jul-26		
Baseline Risk Assessment			
AS PER CONSTRUCTION REGULATION 5(1)(a), 2014 OCCUPATIONAL HEALTH AND SAFETY ACT, NO. 85 OF 1993 (Latest Edition)			

- Gas installation
- Investigate leaks on galvanised pipes and repair leaks

Secondary kitchen

- Redesign of existing kitchens
- Change countertop with no overlap

Eighth floor

- Removal of ceramic tiles in cabins
- Self-levelling screed
- Supply and install vinyl tiles in cabins
- Supply and install timber skirting
- Installation of splashback tiles on handwash basins in cabins
- Allowance to repaint walls in patches
- Concealing of pipes
- Repair on concrete soffit (1 cabin)

Seventh floor

- Removal of ceramic tiles in cabins
- Self-levelling screed
- Supply and install vinyl tiles in cabins
- Supply and install timber skirting
- Installation of splashback tiles on handwash basins in cabins
- Allowance to repaint walls in patches
- Concealing of pipes

Sixth floor

- Removal of ceramic tiles in cabins
- Self-levelling screed

Document No	S-BRA-001-00	HEALTH, SAFETY, ENVIRONMENTAL & QUALITY MANAGEMENT	
Revision	01		
Appointment date	13-Jul-26		
Baseline Risk Assessment			
AS PER CONSTRUCTION REGULATION 5(1)(a), 2014 OCCUPATIONAL HEALTH AND SAFETY ACT, NO. 85 OF 1993 (Latest Edition)			

- Supply and install vinyl tiles in cabins
- Supply and install timber skirting
- Installation of splashback tiles on handwash basins in cabins
- Allowance to repaint walls in patches
- Supply and install Built-in closets to match existing (compensation event)
- Concealing of pipes
- Converted book shelving – completion (compensation event)
- ICT trunking to offices (compensation event)

Fifth floor

- Removal of ceramic tiles in cabins
- Self-levelling screed
- Supply and install vinyl tiles in cabins
- Supply and install timber skirting
- Installation of splashback tiles on handwash basins in cabins
- Allowance to repaint walls in patches
- Concealing of pipes

Fourth floor

- Removal of ceramic tiles in cabins
- Self-levelling screed
- Supply and install vinyl tiles in cabins
- Supply and install timber skirting
- Installation of splashback tiles on handwash basins in cabins
- Allowance to repaint walls in patches
- Concealing of pipes
- Conference rooms – built in conference table, carpet, electric skirting, airconditioning (compensation event)

Document No	S-BRA-001-00	HEALTH, SAFETY, ENVIRONMENTAL & QUALITY MANAGEMENT	
Revision	01		
Appointment date	13-Jul-26		
Baseline Risk Assessment			
AS PER CONSTRUCTION REGULATION 5(1)(a), 2014 OCCUPATIONAL HEALTH AND SAFETY ACT, NO. 85 OF 1993 (Latest Edition)			

Third floor

- Removal of ceramic tiles in cabins
- Self-levelling screed
- Supply and install vinyl tiles in cabins
- Supply and install timber skirting
- Installation of splashback tiles on handwash basins in cabins
- Allowance to repaint walls in patches
- Allowance for installation of Bullet proof windows to cash offices with serving tray and burglar bars (compensation event)
- Complete installation of existing airconditioners (compensation event)
- Concealing of pipes
- Repair reveals at cash office and repaint
- ICT trunking to offices (compensation event)

Second floor

- Removal of ceramic tiles in all spaces
- Supply and install ceramic tiles and skirting
- Allowance to repaint walls in patches
- Concealing of pipes

First floor

- Removal of ceramic tiles in cabins
- Self-levelling screed
- Supply and install vinyl tiles in cabins
- Supply and install timber skirting
- Installation of splashback tiles on handwash basins in cabins
- Allowance to repaint walls in patches

Document No	S-BRA-001-00	HEALTH, SAFETY, ENVIRONMENTAL & QUALITY MANAGEMENT	
Revision	01		
Appointment date	13-Jul-26		
Baseline Risk Assessment			
AS PER CONSTRUCTION REGULATION 5(1)(a), 2014 OCCUPATIONAL HEALTH AND SAFETY ACT, NO. 85 OF 1993 (Latest Edition)			

- Concealing of pipes
- Repairs and beautification of reception area

Ground floor

- Removal of ceramic tiles in cabins
- Self-levelling screed
- Supply and install vinyl tiles in cabins
- Supply and install timber skirting
- Installation of splashback tiles on handwash basins in cabins
- Allowance to repaint walls in patches
- Breaking down and removal of Partitioning where required
- Concealing of pipes
- Remove, repair and reinstall burglars

The Baseline Risk Assessment will be reviewed and updated should significant changes occur in the project scope, design or construction methodology.

Document No	S-BRA-001-00	HEALTH, SAFETY, ENVIRONMENTAL & QUALITY MANAGEMENT	
Revision	01		
Appointment date	13-Jul-26		

Baseline Risk Assessment

AS PER CONSTRUCTION REGULATION 5(1)(a), 2014
OCCUPATIONAL HEALTH AND SAFETY ACT, NO. 85 OF 1993 (Latest Edition)

3. ABBREVIATIONS & DEFINITIONS

DEFINITIONS	
Purpose of the Act	- to provide for the health and safety of persons at work and the health and safety of persons in connection with the use of plant and machinery; the protection of persons other than persons at work against hazards to health and safety arising out of or in connection with the activities of persons at work; to establish an advisory council for occupational health and safety; and to provide for matters connected therewith
the Act	- means the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)
Agent	- means a competent person who acts as a representative for a client
AIA	- means an Inspection Authority approved by the chief inspector: Provided that an inspection authority approved by the chief inspector with respect to any particular service shall be an Approved Inspection Authority with respect to that service only
Asbestos	- means the following fibrous silicates: ➤ Asbestos actinolite ➤ Asbestos grunerite (amosite) ➤ Asbestos anthophyllite ➤ Chrysotile ➤ Crocidolite ➤ Asbestos tremolite ➤ Any mixture containing these fibrous silicates
Asbestos-containing material	- 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 material
Asbestos Demolition Work	- means demolition, alteration, stripping, removing, repair, gleaning of any spilt asbestos, or high-pressure water jetting of any structure containing asbestos lagging or insulation, but does not include work performed on asbestos cement sheeting and related products and asbestos cement products that form part of the structure of a workplace, building, plant or premises.
Asbestos dust	- means airborne or settled dust, which contains or is likely to contain regulated asbestos fibers
Asbestos Waste	- means an undesirable or superfluous asbestos-containing by-product, emission or residue of any process or activity that has been – ➤ discarded by any person

Document No	S-BRA-001-00	HEALTH, SAFETY, ENVIRONMENTAL & QUALITY MANAGEMENT	
Revision	01		
Appointment date	13-Jul-26		

Baseline Risk Assessment

AS PER CONSTRUCTION REGULATION 5(1)(a), 2014
OCCUPATIONAL HEALTH AND SAFETY ACT, NO. 85 OF 1993 (Latest Edition)

	➤ accumulated and stored by any person with the purpose of eventually discarding it with or without prior treatment connected with the discarding thereof; or ➤ stored by any person with the purpose of recycling, re-using or extracting a usable product from such matter
Asbestos Work	- means work that exposes or is likely to expose any person to asbestos dust.
Client	- means any person for whom construction work is performed
Competent Person	- means any person having the knowledge, training, experience and qualifications specific to the work or task being performed.
Construction manager	- means a competent person responsible for the management of the physical construction processes and the coordination, administration and management of resources on a construction site
Construction site	- means a workplace where construction work is being performed
Construction supervisor	- means a competent person responsible for supervising construction activities on a construction site
Construction work	- means any work in connection with - ➤ the construction, erection, alteration, renovation, repair, demolition or dismantling of or addition to a building or any similar structure; or ➤ the construction, erection, maintenance, demolition or dismantling of any bridge, dam, canal, road, railway, runway, sewer or water reticulation system; or the moving of earth, clearing of land, the making of excavation, piling, or any similar civil engineering structure or type of work.
Contractor	- means an employer who performs construction work
Designer	- means ➤ a competent person who- ○ prepares a design ○ checks and approves a design ○ arranges for a person at work under his or her control to prepare a design, including an employee of that person where he or she is the employer; or ○ designs temporary work, including its components ➤ an architect or engineer contributing to, or having overall responsibility for a design ➤ a building services engineer designing details for fixed plant ➤ a surveyor specifying articles or drawing up specifications

Document No	S-BRA-001-00	HEALTH, SAFETY, ENVIRONMENTAL & QUALITY MANAGEMENT	
Revision	01		
Appointment date	13-Jul-26		

Baseline Risk Assessment

AS PER CONSTRUCTION REGULATION 5(1)(a), 2014

OCCUPATIONAL HEALTH AND SAFETY ACT, NO. 85 OF 1993 (Latest Edition)

	➤ a contractor carrying out design work as part of a design and building project; or an interior designer, shopfitter or landscape architect.
DBSA	- Development Bank of Southern Africa
DSTI	- Daily Safety Task Instruction
Excavation work	- means the making of any man-made cavity, trench, pit or depression formed by cutting, digging or scooping
Fall protection plan	- means a documented plan, which includes and provides for ➤ all risks relating to working from a fall risk position, considering the nature of work undertaken ➤ the procedures and methods to be applied in order to eliminate the risk of falling; and ➤ a rescue plan and procedures.
Fall arrest equipment	- means equipment used to arrest a person in a fall, including personal equipment, a body harness, lanyards, deceleration device, lifelines or similar equipment
Fall prevention equipment	- means equipment used to prevent persons from falling from a fall risk position, including personal equipment, a body harness, lanyards, lifelines, or physical equipment such as guardrails, screens, barricades, anchorages or similar equipment
Fall risk	- means any potential exposure to falling either from, off or into
Health and Safety File	- means a file, or other record containing the information in writing required by the Construction Regulations 2014
Health and Safety Plan	- means a site, activity or project specific documented plan in accordance with the client's health and safety specification
Health and Safety Specification	- means a site, activity or project specific document prepared by the client pertaining to all health and safety requirements related to construction work
HCS	- Hazardous Chemical Substances
HBA	- Hazardous Biological Agents
HIRA	- Hazard Identification Risk Assessment

Document No	S-BRA-001-00	HEALTH, SAFETY, ENVIRONMENTAL & QUALITY MANAGEMENT	
Revision	01		
Appointment date	13-Jul-26		

Baseline Risk Assessment

AS PER CONSTRUCTION REGULATION 5(1)(a), 2014
OCCUPATIONAL HEALTH AND SAFETY ACT, NO. 85 OF 1993 (Latest Edition)

Method Statement	- means a document detailing the key activities to be performed in order to reduce as reasonably as practicable the hazards identified in any risk assessment
MSDS/SDS	- means material safety data sheet / safety data sheet for hazardous chemicals
National Building Regulations	- means the National Building Regulations made under the National Building Regulations and Building Standards Act, 1977 (Act No. 103 of 1977), and promulgated by Government Notice No. R. 2378 of 30 July 1990, as amended by Government Notices No's R. 432 of 8 March 1991, R. 919 of 30 July 1999 and R. 547 of 30 May 2008
PSP	- Professional Service Provider
PPE	- Personal Protective Equipment
PTO	- Planned Task Observation
Risk Assessment	- means a program to determine any risk associated with any hazard at a construction site, in order to identify the steps needed to be taken to remove, reduce or control such hazard.
Shoring	- means a system used to support the sides of an excavation and which is intended to prevent the cave-in or the collapse of the sides of an excavation or trench
Structure	- means ➤ any building, steel or reinforced concrete structure (not being a building), railway line or siding, bridge, waterworks, reservoir, pipe or pipeline, cable, sewer, sewage works, fixed vessels, road, drainage works, earthworks, dam, wall, mast, tower, tower crane, bulk mixing plant, pylon, surface and underground tanks, earth retaining structure or any structure designed to preserve or alter any natural feature, and any other similar structure ➤ any falsework, scaffold or other structure designed or used to provide support or means of access during construction work; or ➤ any fixed plant in respect of construction work which includes installation, commissioning, decommissioning or dismantling and where any construction work involves a risk of a person falling
Service Provider	- means an employer appointed by the client to perform construction work
SACPCMP	- means the South African Council for the Project and Construction Management Professions
SOP / SWP	- Standard Operating Procedure / Safe Working Procedure

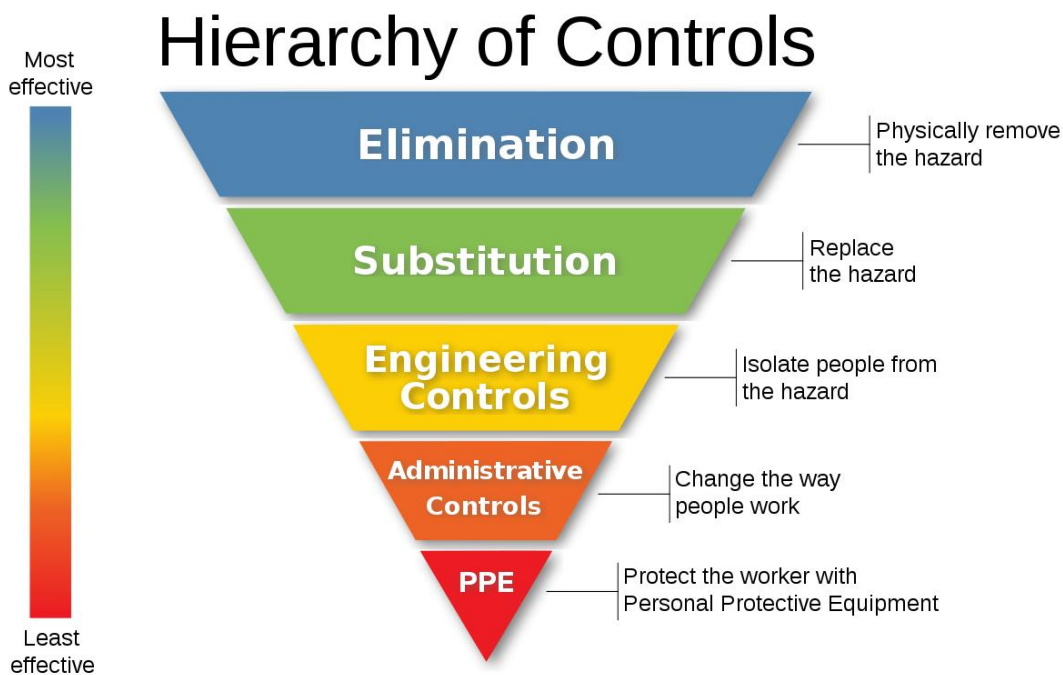
Document No	S-BRA-001-00	HEALTH, SAFETY, ENVIRONMENTAL & QUALITY MANAGEMENT	
Revision	01		
Appointment date	13-Jul-26		

Baseline Risk Assessment

AS PER CONSTRUCTION REGULATION 5(1)(a), 2014

OCCUPATIONAL HEALTH AND SAFETY ACT, NO. 85 OF 1993 (Latest Edition)

Temporary works	means any falsework, formwork, support work, scaffold, shoring or other temporary structure designed to provide support or means of access during construction work
Definitions to understand under Control Measures	
Elimination	The Most satisfactory method of dealing with hazards is to remove it in complete (get rid of it). Once a hazard is eliminated the potential for harm is removed
Substitution	This involves substituting a dangerous process or substance with one that is not as dangerous
Isolation	Separate or Isolate the Hazards from making contact with people
Engineering	Implement Engineering controls to eliminate or reduce the risk
Administrative	Administrative control usually involves modification of the likelihood of an accident happening. This is done by reducing the number of people exposed to the hazard, and ensuring those that remain exposed to a hazard, understand the hazard and the best way to manage the hazard. Administrative controls include – Procedures, Signages, Permits etc.
PPE	Provision of Personal Protective Equipment should only be considered if all the other control measures are impractical.



Document No	S-BRA-001-00	HEALTH, SAFETY, ENVIRONMENTAL & QUALITY MANAGEMENT	
Revision	01		
Appointment date	13-Jul-26		
Baseline Risk Assessment AS PER CONSTRUCTION REGULATION 5(1)(a), 2014 OCCUPATIONAL HEALTH AND SAFETY ACT, NO. 85 OF 1993 (Latest Edition)			

4. RISK METHODOLOGY

This risk assessment methodology is used to systematically identify hazards, evaluate associated risks and determine appropriate control measures to eliminate or reduce the risks to an acceptable level.

The methodology follows the principles of hazard identification and risk assessment in accordance with the Occupational Health and Safety Act 85 of 1993 and the Construction Regulations, 2014.

The purpose of this methodology is to:

- Identify hazards associated with project activities
- Determine the potential consequences of these hazards
- Evaluate the likelihood of the risk occurring
- Determine the risk rating
- Implement appropriate control measures

The risk assessment process also supports the application of the hierarchy of controls to eliminate or reduce hazards at source where reasonably practicable.

4.1 RISK METHODOLOGY

ASSESSMENT				RISK MATRIX						RISK CALCULATION	PRIORITY OF ACTION		
I	INJURY SEVERITY	C	FINANCIAL IMPLICATIONS	26	27	28	29	30	SUM OF: INCIDENT / FINANCIAL / DAMAGE / ENVIRONMENTAL / FREQUENCY / PROBABILITY = RISK VALUE	RISK VALUE		25 - 30	Immediate
1	No injury	1	No [Zero] financial implications	21	22	23	24	25				24 - 21	Within 1 week
2	Minor laceration, contusion or wound (first aid case)	2	R1000 - R9999	16	17	18	19	20				20 - 17	Within 1 month
3	Injury requiring medical assistance <14 Days recover	3	R10 000 - R99 999	11	12	13	14	15				16 - 09	Within 6 months
4	Serious injuries, trauma >14 Days recovery	4	R100 000 - R499 999	6	7	8	9	10				08 - 05	Within 12 months
5	Loss of life [Fatality]	5	>R500 000	1	2	3	4	5				01 - 04	As reasonable
D	POTENTIAL DAMAGE / LOSS	E	ENVIRONMENTAL IMPACT	ACTION REQUIRED							CONSIDER		
1	No damage	1	No effect	Critical			Terminate operation / Competent Supervision / Specialist training / Method Statement / Risk assessments / Safe work procedures / Permits				Intolerable: Change method / Terminate Risk		
2	Minor damage	2	Minor effect										
3	Med. damage/loss, short stoppage (repaired on site)	3	Serious effect (Short Term)	High			Competent Supervision Training / Certification Method Statement / Risk assessments / Safe work procedures Planned task observations / Toolbox talks				Change method Transfer Risk Mitigate		
4	More serious damage/loss & delay	4	Very serious effect (Long Term)										
5	Severe damage/loss & long-term delay	5	Catastrophic effect										
P	PROBABILITY	F	FREQUENCY OF OCCURRENCE	Medium			Competent Supervision / Training / Certification / Method Statement / Risk assessments / Safe work procedures / Planned task observations / Toolbox / Safety talks				Change method Mitigate		
1	Event has never occurred probability of <1%	1	No occurrence										
2	Events have probability of between 1% and <25%	2	Occurs very seldom [5 Years]										
3	Event has probability of between 25% and <50%	3	Occurs occasionally [1 Year]	Low			Supervision / Training / Certification / Method Statement / Risk assessments / Safe work procedures / Training / Toolbox / Safety talks				Written Instructions		
4	Event has probability of between 50% and <90%	4	Occurs often [Monthly]										
5	Event occurs frequently & >90% of re-occurring	5	Could / Has Happened [Weekly/Daily]										

S34-BRA-0001-00
Baseline Risk Assessment

6. BASELINE RISK ASSESSMENT

ACTIVITY (Work to be performed)	POTENTIAL HAZARD (Injury / Damage / Loss)	POSSIBLE RISK (Type injury/damage/loss)	RISK EVALUATION							PREVENTATIVE MEASURES	CONTROLS (Registers, Policies, Procedure)	RESIDUAL RISK						
			I	C	D	E	P	F	R			I	C	D	E	P	F	RR
Stage 1 – Project Initiation and Briefing																		
S1-01	Appointment of competent Pr. Construction Health and Safety Agent	Project disruption due to risks not identified during stage 1-3 of the project Financial implications if the required OHS requirements were not budgeted for Unable to identify Health and Safety Risks or challenges during the design phase. Contravention of Legislative requirements. Not appointing a Pr. Construction Health and Safety Agent would lead to contravention of Section 18(1)(c) of Project and Construction Management Professions Act, 2000 Time restrictions to commence with the next stage / project	1	4	3	1	3	4	16	Appointment of competent Pr. Construction Health and Safety Agent as per Legislative and SACPCMP requirements. Implementation of all safety-related functions into manageable systems, subsystems, processes, and procedures. Competency verification to be done through the SACPCMP registered Professionals platform DBSA tender process to ensure the correct OHS professional is appointed based on the specific project	- DBSA Procurement process - Construction Regulations - Appointment letter - SACPCMP Certificate - Construction Regulations 2014 (CR5 – Client Duties) and Section 18(1)(c) of the Project and Construction Management Professions Act, 2000	1	4	2	1	2	3	13
S1-02	Client project brief, scope, contracts, and related documents	Insufficient information concerning the agreed-upon scope of the construction project, deliverables from key stakeholders, and contractual obligations. Inadequate practices for managing project requirements. Changes in project scope and other requirements No clear statement of intent Roles and Responsibilities not defined Project Disruptions due to poor communication and decision making Financial impact due to non-compliance with legal requirements that might be taken to court Environmental impact due to not being able to identify the impact of the project on to the environment such as Fauna and Flora in the community Undefined roles and	1	4	4	1	4	3	17	Client (DBSA) must ensure that the necessary support and resources are appointed to manage requirements on this project. Agreed on scope of work, responsibilities/accountabilities, and deliverables for all key stakeholders. DBSA should establish safety objectives and targets, along with a commitment to effectively managing and resourcing the project, to continuously improve the safety of systems, employees, assets, and overall performance. Compile legal contracts for professional services, engineering, etc. and general	- Clear Construction project health and safety brief - Agreed Scope of work - Agreed Objectives and targets - Construction Regulations 2014 (CR5 – Client Duties) and Section 18(1)(c) of the Project and Construction Management Professions Act, 2000	1	4	2	1	3	3	14

ACTIVITY (Work to be performed)	POTENTIAL HAZARD (Injury / Damage / Loss)	POSSIBLE RISK (Type injury/damage/loss)	RISK EVALUATION							PREVENTATIVE MEASURES	CONTROLS (Registers, Policies, Procedure)	RESIDUAL RISK						
			I	C	D	E	P	F	R			I	C	D	E	P	F	RR
										responsibilities could lead to miscommunication, delays in decision making, increased costs due to "reworks", legal and contractual issues and stakeholder disengagement No clear statement of intent addressed in the project brief could cause lack of direction for the project, misaligned stakeholder expectations, poor decision making and inefficiently allocation of resources	construction contracts to secure commitment, compliance, traceability of decision making, deliverables, etc. Implement and agree to clear communication channels for all professionals All professionals to ensure Health and Safety principles and legal requirements are identified and addressed							
S1-03	The process, validation and approval of works by DBSA, regulatory bodies and interested parties.	Exclusion criteria (legal requirements) for current and future DBSA infrastructure causing changes in technical and operational requirements	1	5	4	1	2	3	16	The exclusion criteria for DBSA infrastructure should be properly defined and agreed with interested parties before any final decision and approvals. Agreements must be signed and approved by all interested parties	- Signed agreement - Project Plan - Construction Regulations 2014 (CR5 – Client Duties) and Section 18(1)(c) of the Project and Construction Management Professions Act, 2000	1	5	3	1	2	2	14
S1-04	Designers and other specialist competency requirements and resources.	No adequate technical safety knowledge, experience, skills, and resources for addressing occupational hazard and risk, technical/structural failures, human factor limitations/behavior and foreseeable misuse during the design/redesign processes.	1	5	4	1	3	3	17	DBSA must consider competency requirements and verification of designers as required in legislation. Registrations to be verified with certain bodies. Design risk management training for designers if required. Records of other professionals must be submitted and recorded to ensure competent professionals are appointed for the project	- Appointment letter - Competency / Registration - Construction Regulations 2014 (CR5 – Client Duties) and Section 18(1)(c) of the Project and Construction Management Professions Act, 2000	1	5	2	1	2	2	13

ACTIVITY (Work to be performed)	POTENTIAL HAZARD (Injury / Damage / Loss)	POSSIBLE RISK (Type injury/damage/loss)	RISK EVALUATION							PREVENTATIVE MEASURES	CONTROLS (Registers, Policies, Procedure)	RESIDUAL RISK						
			I	C	D	E	P	F	R			I	C	D	E	P	F	RR
S1-05	Legal and regulatory compliance.	Non-compliance with Legal and Regulatory requirements range from penalties and fines to imprisonment, withdrawal of licenses, lawsuits and reputational risk, impact on the project objectives and organizational sustainability.	1	5	4	1	2	3	16	Compile and maintain a legal register for the project. Identifies all the legal obligations impacting directly or indirectly on the infrastructure facility. Comply/evaluate compliance with the requirements contained in legislation and national standards applicable to the project. Monitors changes in legislation and national standards and communicate with relevant stakeholders.	- Legal Register - OHS ACT and its Regulations - Building Regulations - SANS Standards - Construction Regulations 2014 (CR5 – Client Duties) and Section 18(1)(c) of the Project and Construction Management Professions Act, 2000	1	5	2	1	2	2	13
S1-06	Unknown site and environmental restrictions/conditions.	Inadequate site health, safety, environmental restrictions/conditions information available.	1	5	3	3	2	2	16	Professional team to identify required site surveys, site tests, analyses of reports, and other investigations where such information will be required in the interest of health and safety and/or legal compliance.	- Surveys Scheduled report - Construction Regulations 2014 (CR5 – Client Duties) and Section 18(1)(c) of the Project and Construction Management Professions Act, 2000	1	5	2	2	2	2	14
S1-07	Preparation of draft risk profile	Unable to identify high level risks during this stage	1	5	4	2	3	3	18	Draft risk profile to be drafted by Professional Registered Construction Health and Safety Agent with consultation with all appointed professionals identify risk that might be associated with the potential project	- Draft Risk Profile - Construction Regulations 2014 (CR5 – Client Duties) and Section 18(1)(c) of the	1	5	2	2	2	2	14

ACTIVITY (Work to be performed)	POTENTIAL HAZARD (Injury / Damage / Loss)	POSSIBLE RISK (Type injury/damage/loss)	RISK EVALUATION							PREVENTATIVE MEASURES	CONTROLS (Registers, Policies, Procedure)	RESIDUAL RISK						
			I	C	D	E	P	F	R			I	C	D	E	P	F	RR
S1-08											Project and Construction Management Professions Act, 2000							
	Needs and expectations of local community/public and road users.	Inadequate lines of communication between local community and project activities/construction can lead to civil unrest and other legal and social factors/issues.																
		losses and reputation damages Unable to identify risk could result in poor or no resource allocation, it would result in inadequate planning leading to no confidence by stakeholders. This could then result in reputational damages and increased project costs																
		Communities not in agreement with the Project could cause disruptions or delays	1	3	3	1	3	3	14	Social Facilitator to identify and managing community needs and expectations, and to ensure engagements are held with local communities to understand specific needs and expectations of the certain communities.	- Appointment of Social Facilitator as part of the professional team - Stakeholder engagement meetings	1	3	2	1	2	3	12
Stage 2 – Concept and Feasibility																		
S2-01	Feasibility	No feasibility studies conducted									DBSA and Professional team appointed should prepare a detailed infrastructure business/project plan that addresses current financial condition, capital, project and operating budget, and cash flow projections for the DBSA infrastructure project.	- Feasibility Study - Construction Regulations 2014 (CR5 – Client Duties) and Section 18(1)(c) of the Project and Construction Management Professions Act, 2000						
		Unable to identify the Financial Impact of the project would lead to inaccurate cost estimations, technical and operational challenges and a lack of stakeholder buy in No Studies done or approved scope of works/project plan that defines the goals and objectives, and how the project will be managed in terms of financial requirements could result in the cancelation of the project. This could result in loss of confidence by	1	5	3	1	3	3	16				1	5	2	1	2	13

ACTIVITY (Work to be performed)		POTENTIAL HAZARD (Injury / Damage / Loss)	POSSIBLE RISK (Type injury/damage/loss)	RISK EVALUATION							PREVENTATIVE MEASURES	CONTROLS (Registers, Policies, Procedure)	RESIDUAL RISK							
				I	C	D	E	P	F	R			I	C	D	E	P	F	RR	
			stakeholders and reputational damages																	
S2-02	Demand and capacity analysis of DBSA infrastructure.	Failure to study and address higher volumes and operational activities in and around DBSA infrastructure.	Non approval of the concept could cause delays as the project cannot move to stage 3 of the project life cycle.																	
			The revising or reworking of a non-approved concept could cause increased costs as professionals would claim more during this stage	1	5	3	1	3	3	16	Conduct a study and simulation to address and evaluate DBSA infrastructure capacity to address operations and service quality issues.	- Feasibility Study - Concept approval	1	5	2	1	2	2	13	
S2-03	Commercial/residential activities in and around DBSA infrastructure	Reasonably foreseeable misuse of DBSA infrastructure in a way not intended in the original design for example, uncontrolled formal/informal facilities in and around the infrastructure precinct, etc.	The misuse of DBSA infrastructure will result in financial losses and reputational damage																	
			Project delays/disruptions could occur if planned infrastructure is built in areas that might be protected or where the surrounding properties might have an impact on the infrastructure to be built	1	5	3	3	2	2	16	Exploitation by formal/informal facilities/needs to be regulated and controlled to prevent their unrestricted/uncontrolled expansion within and around the DBSA infrastructure.	- Feasibility Study - Concept approval	1	5	2	2	2	2	14	
S2-04	The process, validation and approval in principle for DBSA infrastructure after final approvals.	No mandate and accountability to accomplish required levels of functionality, performance and exclusion criteria for DBSA infrastructure throughout its life cycle, changes in user requirements, etc.	Project delays/disruptions																	
		changes in technical requirements	Non approval or approved/signed mandate of infrastructure will result in unnecessary funding from clients and stakeholders	1	5	3	4	2	2	17	Establish procedures for acceptance, validation and approvals in principle for all mandatory, site specific and generic specifications of all interested parties to address any uncertainty in the DBSA infrastructure design, construction and functioning as confirmation that any alterations, additions, modification, etc. is appropriate for its intended use.	- Feasibility Study - Concept approval - Signed Mandate	1	5	2	2	2	2	14	
S2-05	Feasibility and concept assessment for DBSA planning	Insufficient or nonexistent information to support decision-making processes regarding	Unable to review information to support any decisions regarding	1	5	3	4	2	2	17	Conduct a comprehensive feasibility study that includes a historical background of the DBSA infrastructure project, a description of	- Feasibility and Concept Report - Construction	1	5	2	2	2	2	14	

ACTIVITY (Work to be performed)		POTENTIAL HAZARD (Injury / Damage / Loss)	POSSIBLE RISK (Type injury/damage/loss)	RISK EVALUATION							PREVENTATIVE MEASURES	CONTROLS (Registers, Policies, Procedure)	RESIDUAL RISK						
				I	C	D	E	P	F	R			I	C	D	E	P	F	RR
S2-06	and design from inception to completion, evaluating its practical viability considering the environmental realities of its implementation.	the financial implications for the DBSA, including a lack of legal and technical requirements, market research, assessments of current infrastructure constraints and conditions, as well as environmental impact studies.	the feasibility could result in financial implications if concept is not approved Resource Mismanagement could also result in loss of production on costs (Wasteful expenditure) Scope creep could result in increased project costs and delays								the required infrastructure and services, operational and management details, market research, financial data, and legal, technical, and environmental requirements Obtain required environmental approvals and authorisations in accordance with applicable environmental legislation prior to project approval.	Regulations 2014 (CR5 – Client Duties) and Section 18(1)(c) of the Project and Construction Management Professions Act, 2000 • National Environmental Management Act (NEMA) / National Environmental Management: Protected areas Act							
	Planning must ensure Access to water resources onsite is available and electricity is available	Economic impact High costs to source Water and electricity Water tanks structural failures. Waterborne diseases. Damage to infrastructure. No Drinking water available in area	Availability of unsafe drinking water for the construction teams, and surrounding members of the area could cause health risks such as cholera, hepatitis, typhoid and polio. Unavailability of water and electricity to the area where infrastructure is to be constructed could result in Project Disruptions/delays to source these resources. Unavailability of water and electricity to the area would result in financial losses to source these resources.	3	5	4	4	2	2	20	Provide the relevant authorities and interested parties with all required information, including drawings, specifications, design assumptions, calculations, documents, and test results (e.g., structural data, biological agent assessments) as mandated by applicable legislation. Water resource assessment to be conducted. Hydrogeological assessments to consider the availability of water. Consult with Eskom regarding the availability of electricity in the area and if not currently available determine if Eskom would have electricity available in the specific area in the future. Assessment of temporary construction services requirements to ensure adequate provision of water and electricity during the construction phase.	• Water Sample tests / yield tests Hydrogeological Survey	2	4	2	2	2	2	14

Stage 3 – Design Development

S3-01	User requirements and specifications for	User requirements were not fully defined by DBSA or Client	Unable to build infrastructure as per	1	5	4	4	2	2	18	Constraints of all types should be taken into account during the design and requirements	• Approved design reports • Construction	1	5	3	3	2	2	16
-------	--	--	---------------------------------------	---	---	---	---	---	---	----	--	---	---	---	---	---	---	---	----

S3-04	Signed-off technical specifications and drawings for DBSA infrastructure.	Lack of oversight to acknowledge and agree accountability for the proposed DBSA infrastructure. Drawings not approved Drawings done by incompetent person	Drawings done by incompetent person without required knowledge and experience required for the specific scope of works could result in design risks that might lead to unsafe building of infrastructure. This can have a catastrophic event if building or new infrastructure collapses. Drawing not approved could result in financial losses / Cost variations to redo the drawings	5	5	4	4	2	2	22	Ensure that the correct structures and appointments be in place to assign accountability, authority, responsibility and roles. Ensure traceability, responsibility and accountability are clearly defined and documented. Design team not to deviate from concept design baseline without written approvals from DBSA. Implement change management procedure	- Signed off / approved Drawings - Approved technical specifications. - Change Management Procedure	1	3	3	3	2	2	14
S3-05	Documented evidence for the mitigation and control of occupational health, safety, environmental and regulatory risks in the design, redesign and construction processes.	No documented evidence provided during the design process of compliance with regulatory and technical requirements impact negatively on project delivery, commissioning and functionality	Not taking into consideration the occupational, health, safety and environmental risks during design could cause project disruptions or delays if works have to be stopped due to not complying with requirements The delays or stoppage of the project will lead to financial losses when paying for service providers and contractors No considering the environmental Impact or Fauna and Flora requirements for the area could result in major fines and work stoppages	1	5	3	3	2	2	16	Addressing and documented occupational safety, health and environmental obligations in the design and redesign process to prevent or reduce risks associated with the total life cycle of the DBSA infrastructure. Provide schedules of surveys, tests, analyses, site and other investigations conducted during stage 2 Develop and provide preliminary construction project risk profile. Health and Safety Specification to be updated by appointed Pr.CHSA for the project Final Baseline Risk Assessment to be prepared or updated by Pr.CHSA for the project Pr. CHSA to review and approve design risk information and ensure incorporation into the Health and Safety Specification.	- Records of Surveys conducted - Final Health and Safety Risk Profile - Updated Health and Safety Specification - Final Baseline Risk Assessment	1	5	2	2	2	2	14
S3-06	External and internal Stakeholder involvement to take	Failure to be transparent and inclusive in the design process.	Failing to consider input from internal and external stakeholders	1	5	2	2	2	2	14	Ensure that the knowledge, skills, experience, insight, and creativity of people (Internal/External) close to the risks are	Stakeholder engagements (minutes)	1	5	2	2	1	1	12

Stage 4 – Tender Documentation and Procurement																					
S4-01	Detailed documentary evidence to demonstrate that the key safety and environmental constraints or issues	No methods and procedures to indicate that the key safety issues are addressed at DBSA infrastructure projects.	Unable to identify health, safety and environmental risks during bidding stage could result in financial implications when contractors submit	1	5	3	2	2	2	2	15	Designers must ensure that designs are accompanied by a report as required in terms of the construction regulations (6. (1)(c)) for inclusion in the Health and Safety Specification/Safety Plan/Budget. Designers must have record that they have considered	• Design Report • Final health and safety specification • Final baseline risk assessment	1	5	3	2	2	2	2	14
		Unclear Procurement plan /																			

[illegible]

[illegible]

	project costing and Bill of Quantities		unsafe working conditions, project delays, contractor variations and financial losses							contractors to adequately price for compliance	BOQ) - Final Tender Documentation - Final Baseline Risk Assessment							
Stage 5 – Construction Documentation and Management																		
S5-01	File Approval as per OHS Requirements and Client Specification	Work commencing prior to file being available and approved.	Non-Conformances issued or Default letters issued could result in termination of non-compliant contractor that would result in project delays or cancellation	1	4	3	2	4	4	18	No Work Commencement until approval has been signed off.	- Health and Safety Plan / file approval letter - Copy of Health and Safety Plan - Copy of LOGS - Valid Competencies, appointment, medicals, work permits etc. - Site Establishment plan / layout	1	3	2	2	2	12
		No valid registration with COID.																
		Expired Documentation (e.g. competencies, equipment load test, medicals, work permits)																
		Documentation not available or approved as per required Client Spec and OHS act.																
S5-03	Notifying Department of Employment and Labour of Construction works	Principal Contractor commencing with works without Notifying Department of Employment and Labour	Contravention of the OHS Act and its Regulations could result in fines and work stoppages	1	3	3	3	3	4	17	NOC to be submitted by Principal Contractor at least 7 days before commencement of works to the DoEL.	- Annexure 2 - Proof of submission to DoEL	1	3	2	2	2	13
S5-04	Risk Identification	Risk assessments not conducted, not site-specific, or performed by an incompetent person	Failure to conduct suitable and sufficient risk assessments may result in hazards not being identified, leading to serious injuries, fatalities, inadequate control measures and unsafe working conditions	4	4	4	4	3	3	22	Issue based Risk Assessment must be drafted by risk assessment team that includes the risk assessor, construction manager and supervisor, SHE Rep and skilled employee	- Client Health and Safety Specification - Baseline Risk Assessment - Method Statement of Tasks	4	4	3	3	2	18
											All risk assessments, method statements and safe working procedures must be communicated to the required employees conducting those activities. Record of communication / training must be kept in Safety file	- Risk Assessor competency - Issue based risk assessments - Training / communication records - SOP/SWP						

Building Africa's Prosperity																		
Activity	Hazard	Consequence	Risk Rating				Control Measures	Residual Risk Rating	Risk Rating									
			5	4	3	2			5	4	3	2						
S5-05							No Activity to commence if risk assessment and method statement has not been approved by the relevant person. All risk assessments and method statements must be reviewed if any changes occur, such as change of management, changes to conditions, changes to scope, incidents etc. Competent Risk Assessor to use hierarchy of controls when identifying controls to be implemented No work may commence unless a suitable and sufficient risk assessment and method statement has been developed, approved and communicated to all affected person	• Risk Assessment training										
	Site Establishment - Setting up Camp & Storage Facilities & Project Mobilization of Plant and Equipment	Abnormal loading of trucks Traffic congestion / unwanted(unauthorized) members of the public walking in risk zone Containers placed on uneven surfaces. Using defective / incorrect equipment to offload containers. Fatigued operators Unsafe / uncontrolled Truck Crane Operations Unsafe and poor manual offloading practices from delivery vehicles / plant Operators under the influence of Alcohol or other substances while transporting machinery and equipment to site establishment area.	Unsafe or abnormal loading could cause accidents that could lead to multiple fatalities. Loaded truck uncontrolled movement on site can cause an accident resulting in serious injuries to operator and members of the public and damages to surrounding property. Containers falling over or off from stands/bricks could cause property damages. Load / construction materials falling during lift could cause property damages or serious injuries or even fatalities. Fatigued operators could lead to accidents resulting in damages to	5	5	4	3	3	4	24	Truck must only be loaded according to its safe load capacity. Appointed spotter (flag person) to be in position wearing reflective vest and whistle to assist Truck driver or Plant operator with movement on site. Traffic Management Plan must be communicated to all relevant parties to ensure controls are implemented. Clear all bystanders away from operations – Barricade area and post warning signage – Only Authorized workers/persons to enter construction area. Appointed competent Banksman (Rigger) to oversee all lifting operations. Pre-lift checks to be done on lifting material, and recorded on a Checklist, any deviations must be recorded and reported to Construction manager. Slings and chain blocks to be checked prior lifting operations and to have valid load test certificate. Lifting truck to also be in possession of a load test certificate and	• Safe Workload Certificate or Certificate of Compliance for Lifting equipment • Traffic Management Plan • Lifting Plan • Appointment letters • Competencies – Operators, truck driver, flagperson, riggers • Pre-lift checklists • Safe Working Procedures • Issue based risk assessment • Approved method statement • DSTI • Emergency contact numbers	5	5	3	2	2	2

[illegible]

S5-08			incorrect areas could result in financial costs (loss) Spillages from toilet waste due to poor plumbing or incorrect installation would result in environmental pollution							plumbing installations are secured. Plumbing Contractor to issue CoC / CoA once installations are done								
	Excavation Works - Excavating by hand	Damages to underground services Poor ergonomics used. Unsafe damaged hand tools used. Exposure to Heat and Sun Dust generated from picks and shovels used when excavated Excavation Collapses	Employees manually excavating and making contact with underground services could cause disruptions in services in surrounding areas. Damage to Property Employees manually excavating and making contact with underground services could lead to employee being electrocuted. Employees exposed to manual excavating for long periods could lead to minor to moderate back injuries. The use of unsafe or damaged hand tools could cause head, bodily and hand injuries. Employees exposed to working long periods of time in the sun could lead to long term/short term skin damage this could include skin cancer, heat stroke and dehydration resulting in serious injuries.	4	4	3	3	3	4	21	Drawings must be utilized to identify existing services. All Excavation works must be supervised by a competent person appointed. Employees need to be trained on the ergonomics safe working procedure and Risk Assessment. Employees need to take regular breaks to prevent strain on their backs. All hand tools must be inspected, and the findings recorded in the safety file. Damaged tools must be removed from site. Employees need to take regular breaks when working in the sun to prevent sunburn. Employees need to drink enough water to stay hydrated. Employees manually excavating must be issued with the required PPE. All excavation walls must be shored or braced and must be approved by appointed / competent excavation supervisor. All excavated materials must be placed at least 1.5 – 2m away from any excavation edge Water truck to be used daily or as per issue-based risk assessment to spray all roads with water to suppress the dust	• Checklists • Issue Based Risk Assessment • SOP/SWP • Method Statement • Toolbox talks • DSTI's • PTO • Underground services drawings • Medical Certificate of Fitness	3	4	2	2	3	3

S5-11	Lifting operations (Loading and offloading of materials) - Manual handling / loading and offloading (Ergonomics)	Employees lifting heavy uncontrolled materials. Employees not trained in safe manual lifting procedures. Materials / equipment falling. Walkways not clear of tripping hazards.	falling into or playing in open trenches and excavations Employees manual handling materials / equipment exceeding 25kg per person could cause minor back strains and even long-term back injury. Employees who do not understand the safe procedure to lift (Ergonomics) materials could result in injuries such as back injury or materials to fall resulting in property damages. Materials / equipment falling when loading or offloading could lead to pinch point injuries to hands, fingers, and feet. Workers tripping over hazards when moving with load could cause load to fall and employees to fall over resulting in bodily injuries	4	3	3	1	4	5	20	Manual handling / lifting Safe work Procedure and Risk Assessment to be communicated to all workers on site. (Keep proof of communication in safety file) Workers assisting each other to lift must communicate with each other to ensure safe lifting and lowering of items. Before offloading or handling any materials, equipment or tools, ensure walkways are clear and free from tripping hazards. Workers to assist each other if intended load to be lifted exceeds 25kg (per person). Workers / Supervisors to ensure materials, equipment and tools are secure when offloading. When manual lifting the correct procedure must be used, workers to lift loads using their legs and not their back. Employees manually lifting equipment, materials must be issued with the required PPE such as gloves, hardhat, safety shoes, overalls	- Ergonomics Risk Assessment - SOP/SWP - Toolbox talks - DSTI's	3	2	2	1	3	4	15
	Lifting operations (Loading and offloading of materials) - Mobile Crane / Tower Crane and or truck crane lifting operations	Operating of unsafe / Defective mobile plant Incompetent Operator or not medically fit operating lifting machinery Severe weather conditions such as strong winds, rain and thunderstorms Operations near overhead powerlines	Operating of defective lifting plant could result in excessive carbon emissions, oil leaks that could result in environmental contamination. Incompetent Operator will not be able to identify the SLL or the maximum loading capacity resulting in lifting machinery toppling over.	5	4	4	3	3	3	22	Mobile Plant must be inspected before use by appointed person, all deviations must be recorded on the checklist and reported to the Construction manager. Service records must be available. Only operators that have been appointed with a valid competency and medical certificate to operate plant. No lifting or crane operation during strong winds, thunderstorms or when it is raining.	- Safe Workload Certificate or Certificate of Compliance for Lifting equipment - Traffic Management Plan - Lifting Plan - Appointment letters - Competencies – Operators, truck driver, flagperson, riggers - Pre-lift checklists - Safe Working	4	4	3	2	2	2	17

[illegible]

[illegible]

[illegible]

[illegible]

S5-18	Work at Height activities – Use of Trestles to work from	could result in a fatality or serious disabling injuries. Trestle used on uneven / unstable surface. Trestle not fully boarded (Platform) Trestle platform not secured. Trestle platform damaged / bent or unsafe to use. Employees working from fully extended Trestle base. Workers and tools falling from trestle platform. Employee working on trestle not medically fit to work at height	Trestle used on uneven / unstable surface could cause trestle to fall over while employees are working from it, this could result in lost time and even disabling injuries Trestle used not fully boarded could cause employees working from trestle to fall due to the small space to work from. Trestle platform / boards not secured could cause employees or materials to fall from trestle when moving or conducting activities Damaged or bent platform could cause employees, tools or materials to fall Employees working from fully extended trestle platform could cause trestle platform to fall over Employees falling from trestle could cause serious injuries or even disabling injuries	4	3	4	2	4	4	21	All construction materials, tools and equipment to be stacked at least 1.5m-2m away from an open edge All trestles and its components must be inspected before use; findings must be recorded on a checklist. Trestles used must be fully boarded that have been secured to prevent movement. Workers will not be allowed to work from trestle if platform is fully extended. Employees must be trained on the Safe Working Procedures and Issue based Risk Assessment for trestle works No tools or construction materials to be left unattended on the trestle All trestles may only be erected on level surfaces, bricks are not allowed to level the trestles. Baseplate with jack or solid wood slab to be used. Trestles must be erected as per SANS standards All trestles' activities must be conducted under supervision	• SANS1854:2023 • SOP/SWP • DSTI's • Checklist • Signages • Work at Height competency certificate • Medical Fitness to work • Issue-based Risk Assessment • Fall Protection Plan	3	2	3	2	3	3	16
	Work at Height activities – Using ladder to work from or to use for access	Unsafe or damaged ladders used such as Self-made or wooden ladders.	Unsafe or damaged ladders used could cause ladder / rugs to break when accessing or descending the ladder	4	3	3	2	4	4	20	No Self-made ladders to be used All ladders to be inspected before use. Findings to be recorded on a checklist.	• SOP/SWP • Issue-based Risk Assessment • Checklist	3	2	2	2	3	3	15

S5-20

		Unsafe Fall Prevention equipment used	could result in the employee collapsing. Working at height in inclement weather could cause employees to slip and fall due to slippery surfaces or losing balance due to strong winds resulting in employees falling from height. Use of unsafe or damaged fall protection or fall prevention equipment could cause it to break resulting in employee falling from heights Employee falling from height could result in serious disabling injuries or even fatality							All Fall prevention / fall protection equipment must be inspected before use; all findings must be recorded on a checklist. All damaged equipment must be removed from site. CoC certificates must be available for all Fall prevention / fall protection equipment.	protection equipment								
S5-21	Hazardous Chemical Agents – Handling and storage of HCA and flammable materials	Improper storage of chemicals, transportation, and handling Spilled chemical substances. Ingesting, inhaling or Eye / skin contact with HCS. Employees not trained to work with or handle HCA. Employees not issued with specific PPE to work with and handle HCA. Fire or Explosion caused by a source of ignition. Lack of warning signages at HCA store	Unsafe stacking, handling or transporting of chemicals could cause stack to fall over resulting in spillages. Spilled Chemicals could result in soil contamination and loss of product that result in financial costs. Ingesting, inhaling or eye / skin contact could cause nausea, dizziness, skin irritation or even short-term vision impairment. Employees not trained in HCA could result in	3	4	4	4	3	3	21	The principal contractor to ensure that: ➤ No person is required or permitted to work in a place where there is the danger of fire or an explosion due to flammable vapors being present unless adequate precautions is taken. ➤ Flammables stored on a construction site are stored in a well-ventilated, reasonably fire-resistant container, cage, room or bunded area that is kept locked with consistent access control measures in place and sufficient firefighting equipment installed and fire prevention methods practiced for example proper housekeeping. ➤ Containers (including empty containers) to be kept closed to prevent fumes/vapors from escaping and accumulating in low lying areas.	• Gas test results • SOP/SWP • Issue-based Risk Assessment • MSDS/SDS • Appointment letter • Signages • Checklists • PrDP"D" Certificate	2	3	3	3	2	2	15

[illegible]

[illegible]

S5-26		Schedule slippage due to rework	relevant parties could result in loss of information							various parties. Minutes of meeting to be kept for record of discussions									
	Temporary structure (Temporary works) – Formwork	Inadequate designs Incompetent formwork erectors and inspectors Temporary structure collapse due to poor design Unsafe access to elevated areas Poor stacking and storage of Form work materials Manual handling Pinch points Work at Fall Positions Medically unfit for work at height	Poor Temporary designs could cause structures to collapse resulting in multiple fatalities Hand and finger injuries from being pinched when installing props Employees falling from heights could result in serious bodily injuries, disability and even fatality Collapse of structures could result in financial losses due to loss of production, damages to property and surrounding facilities Employees not medically fit to work at height could result in fainting, dizziness or even a seizure that could cause serious bodily injuries, disability or even a fatality if employee fell from height	5	5	4	3	3	4	24	A contractor to appoint a temporary works designer in writing, to design, inspect and approve the erected temporary works. Temporary works to be carried out under the supervision of a competent person appointed in writing. To be erected by competent persons. Temporary structure to be inspected by a competent person immediately, before, during and after the placement of concrete. After inclement weather or any other imposed load and at least on a daily basis until the temporary works has been removed and results recorded in a register. All temporary works to be carried out as per Construction regulations 12. Temporary work structures to be so designed, erected, supported, braced and maintained that they will be able to support any vertical or lateral loads that may be applied. No load to be imposed onto a structure that the structure is not designed to carry. Temporary work to be erected in accordance with the structural design drawings for such temporary work and if there is any uncertainty, the designer must be consulted before proceeding with the erection/use of the temporary work The foundation or base upon which the temporary work is erected to be able to bear the weight and keep the structure stable. Employees erecting temporary work to be trained in the safe work procedures for the	• Appointment letter • Competencies • Work at height competency • Medical fitness to work • Method Statement • Fall protection plan • PPE Issue register / checklist • Checklists • DSTI's • Issue-based Risk Assessment • Approved drawings for temporary works	4	4	3	2	3	3	19

Building Africa's Prosperity													
		Schedule and cost over run on project	to achieve completion in time resulting in penalties – Financial Loss Lack of resources could cause employees to overwork that would make them tired resulting in incident and accidents at the workplace										

S5-30			No clear walkways at stacking area could cause employees to trip and fall over materials resulting in bodily injuries																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		</
-------	--	--	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----

Building Africa's Prosperity																				
S/N	S5-32	Risk Category	Risk Description	Likelihood					Severity	Risk Score	Mitigation Measures	Residual Risk Score	Status							
				1	2	3	4	5												
			Theft Vandalism Non-South African Citizens	result in serious injuries and even fatality if children are unattended. Unsecured Construction site could cause materials, equipment and machinery to be stolen or damaged during strikes resulting in time delays and financial losses Non-South African workers working on site could cause breach of Department of Defence requirements that would result in work stoppages							permitted to the project. When there are no activities on site and no personnel conducting works. The Project must be left in a safe manner so that the public can't gain access and that all hazards are attended to prior vacating the site. Security should be available due to valuable materials and equipment that might be stored on site. Security will also be responsible for monitoring site access by unauthorized people / children Warning Signages must be posted to inform the community of hazards and risks All workers, suppliers and service providers must be vetted prior to accessing the Naval Base	certified Copy of ID's								
		Ablution and welfare facilities	Inadequate provision of toilet facilities for each sex No hand washing stations available No secured area for each sex to change clothing (Changing area) No sheltered eating area with tables and chairs provided Poor Hygiene standards Poor ergonomically designed facilities No safe to drink water available	Insufficient toilet facilities result in overuse of existing facilities leading to unhygienic conditions that could cause disease transmission to all employees on site. Not providing toilet facilities for each sex is a legal offence and could result in DoEL to issue sanctions, fines or even site closure Poor designed or provided ergonomically toilet facilities could cause injuries to employees such as trip and falls resulting in bodily injuries Drinking of unsafe water could lead to various health problems,	3	3	3	2	3	3	18	Principal Contractor to provide toilets for each sex as required in terms of the National Building Regulations and Construction Regulation 30. Chemical toilets are allowed only if they are cleaned on a regular basis by registered contracted company. Toilets must be provided at a ratio of at least 1 toilet per 30 employees. Disposal waste certificate to be obtained to ensure waste has been removed and dumped at a registered facility Toilets must be provided for each sex. Toilets must be enclosed, lockable to provide adequate privacy. Signages must be posted to indicate the sex for each of the toilets. Daily inspections to be done to ensure toilets are cleaned on a daily Handwashing stations must be provided near toilet facilities with soap, clean water (running water) and drying materials such as towels. Drinking water must be made available to all	• Checklists • Waste Disposal Certificates • Issue-based Risk Assessment • Signages	2	2	2	2	2	3	13

S5-33			including diarrheal diseases, bacterial infections, and even long-term health issues like cancer							employees, water must be regularly tested and monitored for any contaminations. Signages must be posted at areas where drinking water is available. All drinking water bottles must be labelled "drink water"									
										An eating area must be provided for the employees sheltering them from the sun, wind and rain. Chairs and Tables must be made available.									
	Concrete Works – Concrete Mixing and Pouring (Manually and Mixer) and use of Concrete Pump	Concrete spillages	Concrete spillages could cause environmental pollution, contaminating the environment and surrounding area. Polluting the environment could result in poor water quality from underground water resources							Concrete mixers to be regularly serviced in order to prevent breakdown leading to oil spillages. Spot checks to be done prior to each shift.									
		Use of hand tool																	
		Oil spillages								All hand tools to be inspected by a competent person.									
		Cement dust generation (Silica)								When concrete is being poured, concrete spillages are to be prevented and plastic sheet to be placed on the ground when spillages cannot be prevented.									
		Incompetent concrete mixer operators								Concrete washout area to be created where concrete run off will be discharged.									
		Concrete mixer operated without guards in place	Inhaling of cement dust could have short term effect such as nose and throat irritations. Long term exposure to cement dust could result in asthma, silicosis and scarring of the lungs.	4	4	4	4	3	3	A flagman must be well trained in order for him to be able to provide proper signals thus preventing employees being hit by a mixer.									
		Miscommunication between operator and flagman								Operators to be well trained and no unauthorized employees must operate the mixer.									
		Mixer operating near excavation								Only Competent / Appointed operator to operate concrete Pump, Ready-mix Truck. Competency must be valid and available									
		Incompetent Concrete Pump Operator	Oil spillages from concrete trucks or pump trucks could cause environmental pollution, contaminating the environment leading to water contamination							Dust mask must be provided to employees handling cement as a last resource when dust cannot be controlled. If exposed to cement dust for long periods a breathing apparatus must be used. Workers exposed to Dry Cement or Wet Cement must be supplied with the minimum required PPE (Overalls, Gumboots, Safety Boots, PVC									
		Unsafe operation or control of Concrete Pump - Hoses / pipes moving around uncontrolled																	
		Inhaling of Cement dust and skin contact with wet cement	Concrete mixer operated by incompetent person could result in serious injuries to arms and hands if safe procedure is not followed																
		Incompetent or intoxicated truck driver																	
		Concrete Pump Blockages																	
		Concrete mixer truck unable to	Operating concrete																

	offload in time (Suppliers)	mixer without protective guard in place can result in serious hand and finger injuries Concrete mixer operated near open trenches and excavation could cause trenches or excavation walls to collapse due to the vibrations Noise exposure from operating concrete mixer for long periods could result in long-term / permanent hearing loss Poor communication between flagperson / supervisor and concrete trucks could cause accidents on site resulting in property damages Uncontrolled movement of concrete pump truck boom and hose could cause serious injuries to surrounding employees and damages to surrounding property Concrete blockages in Concrete pump truck could cause the sudden release of concrete that could result in serious injuries if employees are struck by the concrete that came out of the pipes by high pressure. This can also cause damages to surrounding properties					Gloves, Safety Glasses, Earplugs, if exposed to wet cement raincoats can be used. Concrete ready-mix truck, Concrete Pump Truck and Concrete Mixers must keep a safe distance from excavation edges, when pouring into excavation flagman have to be more vigilant and a regular toolbox talk must be held. Issue-based risk assessment and safe working procedures for all activities must be developed and communicated to all relevant employees Housekeeping must be done after each pour, concrete waste should be disposed at designated waste areas, Concrete Mixers, Ready-mix truck and Concrete Pump trucks to be cleaned after each use. All plant or equipment used for concrete works must be inspected before use and findings recorded on a checklist, deviations must be reported to Construction Manager/ Supervisor. All guards must be in place before operations						
--	-----------------------------	--	--	--	--	--	---	--	--	--	--	--	--

S5-34			Poor planning for concrete trucks not to dump concrete in time could result in delays of production and financial losses if concrete could not be used due to hardening																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
-------	--	--	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Building Africa's Prosperity																				
S/N	Activity	Hazard	Consequence	5	5	5	4	3	3	25	Control Measures	Residual Risk Rating	4	4	3	3	2	2	18	
		Incompetent operators	Operators exposed to continues vibrations from operating small plant or machinery could cause Hand-Arm Vibration Syndrome (HAVS), also known as Vibration White Finger (VWF), this could also result in musculoskeletal disorders or herniated discs Use of unsafe handtools and portable electrical tools could result in hand and arm injuries and being shocked if unsafe electrical tools are used Operators of tools, plant or machinery, not being competent could cause serious injuries if employees do not understand the hazards and risks								excessive vibrations and Noise must take regular breaks or workers to be changed regularly. All trades specific Risk Assessments and Safe working procedures must be communicated to the relevant exposed workers. Proof of communication must be kept. Supervisor / Construction Manager to ensure NO overhead activities from different trades or simultaneous operations from different contractor overhead.									
S5-36	Demolition work – Demolishing of existing structures (Infrastructure)	No Competent person appointed to supervise all demolition of building works Unsafe removal / demolition of walls / structures Dust Falling debris / bricks / walls Public entering demolition work area Incompetent TLB or excavator operator TLB or excavator used to	Supervision by incompetent person could cause team and supervisor being unable to identify hazard and risks associated with demolition, this could result in serious injuries and even fatalities Unsafe removal or breaking of walls or supporting walls could cause building to collapse unplanned, this could result in serious damages to mobile plant, surrounding building and	5	5	5	4	3	3	25	All Demolition work to be carried out under the supervision of a competent person who has been appointed in writing. A detailed structural engineering survey of the structure to be demolished to be carried out and a method statement on the procedure to be followed in demolishing the structure to be developed by a competent person, before any demolition to be commenced. As demolishing progresses the structural integrity of the structure to be checked at intervals as determined in the method statement by the appointed competent person to prevent any premature or uncontrolled collapse	- SOP/SWP - Issue-based Risk Assessment - Method Statement - DSTI's - Checklists - Competencies - Appointment letter - Signages - Toolbox talks - Medical fitness to work - Inductions - Structural engineer to approval/survey to demolish								

[illegible]

																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				</
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----

S5-41																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							</
-------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----

				could result in serious injuries																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
--	--	--	--	----------------------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Building Africa's Prosperity																				
S6-02	Housekeeping and Waste Management	Improper loading of Mobile Plant on to trucks	a fatality. This could also have an impact on electrical supply to existing and new structures																	
		Transporting of equipment, machinery, plant, offices or storage containers with unsafe (not roadworthy) truck	Improper loading of items could cause the load to fall from the truck resulting in damage to property with cost implications. Items falling could also result in serious injuries to persons body, disability injuries and even fatalities																	
		Incompetent person disconnecting temporary services																		
		Exposed to open excavations or trenches																		
		Exposed to open / unsafe electrical wires																		
			Transporting of items with unsafe truck or vehicle could cause an accident to happen resulting in multiple serious injuries or fatalities																	
			Open excavations and open trenches could cause members of the public or end-user to fall into the opening resulting in leg injuries (bodily injuries) or if water (from rain is present) could cause children to drown in these openings																	
		Poor Housekeeping	Poor housekeeping could cause tripping hazards resulting in employees, visitors or the end-user to trip and fall leading to bodily injuries	4	3	3	4	3	3	20	All walkways to be clear from construction material, equipment and any object that might have an impact on the flow of a walkway. All existing walkways must be reinstated as per original	• Disposal Waste Certificates • Issue-based Risk Assessment • SOP/SWP • Medical Fitness to work • DSTI's • Toolbox talks • Agreements	3	2	2	3	2	2	14	
		Tripping hazards																		
		Unauthorized dumping of waste																		
		Fire	Dumping of waste or construction rubble at																	

7. DECLARATION OF ACKNOWLEDGMENT AND COMPLIANCE

I, _____, hereby confirm the following:

- I have read and understood the Baseline Risk Assessment.
- I confirm my intention to comply with all relevant legislative requirements.
- I acknowledge and accept the responsibilities and duties assigned to me and confirm my understanding thereof.

This declaration is made and agreed to at _____, on this _____ day of _____, 2026, in the presence of the undersigned witness.

Signature: _____

Date: _____

Witness Name: _____

Witness Signature: _____

Signed on behalf of (TBA) (*DESIGN AND BUILD CONTRACTOR*)