# Transnet National Ports Authority
# Health and Safety Management

## Refurbishment of Queen's Warehouse Building.

## Baseline Risk Assessment

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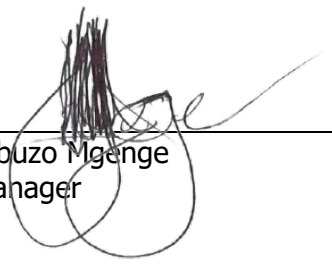
| Prepared by: | Gavin Hall<br>Risk Specialist | Date |
| Reviewed by: |  <br>Skhumbuzo Mgenge<br>Risk Manager | 02 - 02 - 2026<br>Date |
| Reviewed by: | <br>Bongekile Shandu<br>Construction Manager | 02/02/2026<br>Date |
| Approved by: | <br>Sindi Mabele | 02/02/2026<br>Date |

# 1. Project Scope and Description

## 1.1 Executive overview

Transnet has decided for all Transnet Operational Divisions (OD's) to utilize Transnet owned assets/facilities for staff accommodations purposes. OD's have been tasked to identify and refurbish/upgrade the existing facilities. The refurbishment is to ensure that all these administration or operational facilities are compliant with all regulations and standards. TNPA Port of Durban has identified Queens Warehouse for refurbishment after conducting a conditional assessment of the building.

The Works that the Contractor is to perform consist of Architecture, Civil, Structural, Mechanical, Electrical engineering works, ICT and Security for the refurbishment of Queens Warehouse building in the Port of Durban.

**General description of the works**

- Site establishment
- Conducting surveys and confirmation of control points
- Repairs and refurbishment to the existing ground, first floor and second floor
- Electrical works
- Refurbishment of the existing HVAC system
- ICT
- Security

| Risk Assessment Team | | | | |
|---|---|---|---|---|
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| **Risk Assessment Title** | Refurbishment of Queen's warehouse Building |

**Scope of Risk Assessment**

The risks identified on the Refurbishment of Queen's warehouse Building is based on the option explored by the Transnet (NPA) project team.

The *Employer's* project specific objectives are to achieve Completion of the works by meeting the Completion Date whilst still maintaining the highest environmental, quality and safety standards and whilst minimising any disruptions.

Emphasis is placed on the Employer's commitment to environmental management and safety and their objective of Zero Harm and the Employer's objective of achieving a zero LTI and zero environmental legal contravention during the construction contract.

This is a legal and a live document which will be timeously updated as the study progresses.

**Geographical location:**

The geographical location of the intended construction work is 237 Mahatma Gandhi Road.

| Options and activities | | | | |
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| **Options and Activity, step or action step** | **Hazards** | **Associated risk event** | **Risk controls** | **Risk Rating** |
| **Access into the Site** | • **Driving under the influence of alcohol and drugs.** | • **Injury to persons and property damage. (Reckless and Negligent driving)** | • **The contractor's drivers shall abide by all general road traffic rules found in the National Road Traffic Act (Act 93 of 1996) and Regulations thereto or otherwise.** | **HIGH** |
| | • **Non-Compliance to the Speed Restrictions** | • **Accidents leading to Injury to persons and property damage.** | • **All drivers shall abide by the speed limit of 30km/h whilst inside the site area.**<br>• **The contractor's drivers shall abide by all general road traffic rules found in the National Road Traffic Act (Act 93 of 1996).**<br>• **Adherence to Site specific Rules.** | **MEDIUM** |
| | • **Heavy vehicles/Congested roads** | • **Incidents/accidents taking place due to inpatients drivers** | • **Trips to be planed ahead of time**<br>• **Adherence to the Road Traffic Act.** | **MEDIUM** |
| | • **Parking in areas not designated for parking** | • **Obstruction to the road and lead to injury to persons/ property damage.** | • **Contractor shall ensure that all their drivers' park in designated areas to avoid obstruction on the road due to high vehicle movement.**<br>• **Contractor's employees must ensure they adhere to rules and regulations as per the site and use the respective** | **MEDIUM** |

| Options and activities | | | | |
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| **Options and Activity, step or action step** | **Hazards** | **Associated risk event** | **Risk controls** | **Risk Rating** |
| | | | • walkways and routes to minimise /eliminate any incidents or accidents.<br>• Contractor must ensure that a traffic management plan is developed and implemented when activities affect road traffic. | |
| Site Establishment/ Loading and offloading of containers and materials | • No designated eating area. | • Employees contracting diseases due to eating at hazardous areas on site. | • Contractor to adhere to OHSACT ACT 85 of 1993 and Facilities Regulations of 1994. | MEDIUM |
| | • Substandard electrical installations | • Electrocution and property damage.<br>• | • Electrical installation must be done as per the Electrical installation regulation. | HIGH |
| | • No ablution facilities. | • Communicable disease due to lack of hygiene. | • Contractor to adhere to OHSACT ACT 85 of 1993 and Facilities Regulations of 1994, Health and Safety Project specification. | LOW |
| | • Unstable Fencing Condoning the site area | Fencing falling over could lead to incidents/accidents and injuries by moving adjacent vehicles and persons | • Layout drawings to be submitted for approval<br>• Contractor to ensure solid fencing is installed and proper supports to avoid any falling fencing and Jersey barriers in front of fencing for re enforcement. | HIGH |
| | • Incompetent Drivers transporting containers and equipment to site area | • Property Damage and Injuries to employees | • Contractors to ensure all drivers are competent prior to them appointing these employees as drivers | HIGH |

| Options and activities | | | | |
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| **Options and Activity, step or action step** | **Hazards** | **Associated risk event** | **Risk controls** | **Risk Rating** |
| | • Substandard rigging and lifting practices. | • Injuries and property damage.<br>• Suspended load falling/swinging causing injuries | • Contractor must develop the rigging study as per driven machinery regulation.<br>• Competent riggers to be appointed, and proof of competency and previous experience be provided | HIGH |
| | • Using drinking water from un-identified source/connection. | • Sickness of employees resulting from drinking water from unsafe sources. | • Drinking water must only be sourced from a connection identified as safe for drinking. | HIGH |
| | • Uneven Surfaces and poor ground stability<br>• | • Injuries to persons, possible fatalities and property damage | • Contractor to ensure level ground Stability and adhere to geotech studies | MEDIUM |
| | • Moving plant and equipment | • Accidents<br>• Traffic Congestion<br>• Injury to persons | • Contractor to develop traffic manage plan<br>• Contractor to comply with health and safety site specification. | HIGH |
| | • Incompetent rigger and crane operator. | • Loads falling causing injuries and property damages.<br>• Loads swinging causing injuries and property damages. | • Competent operator and riggers with previous experience and competencies must be appointed.<br>• Contractor to comply with Driven Machinery regulations,2015 and 18 (11)<br>• Guide ropes to be used to control load. | MEDIUM |
| | • Employees working under suspended loads | • Loads falling causing injuries and possible fatalities | • Contractor to ensure that no person always walks or works under suspended loads.<br>• Contractor to ensure area is barricaded where suspended loads will be moving | HIGH |
| | • Incorrect manual Handling. | • Back injuries.<br>• Pinch points. | • Contractor to ensure employees are trained on correct manual lifting techniques. | LOW |

| Options and activities | | | | |
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| **Options and Activity, step or action step** | **Hazards** | **Associated risk event** | **Risk controls** | **Risk Rating** |
| | | | • Contractor to ensure ergonomics procedure is in place as per manual handling and employees shall adhere to this procedure when manual handling materials on site | |
| | • High wind speeds | • Loads falling causing injuries and property damages.<br>• Loads swinging causing injuries and property damages. | • Contractor to take note of the weather prior to any lifting activities.<br>• Contractor to ensure that no lifting must take place when there is inclement weather and or the wind speed is equal or more than 30km/h | HIGH |
| Removal and Installation of existing Manholes, foundations, and concrete slabs | • Exposure to noise | • Noise induced hearing loss | • Contractor to comply with Noise induced Hearing Loss regulations,2003 | MEDIUM |
| | Exposure to dust | • Respiratory diseases caused by dust inhalation. | Contractor must comply with Hazardous Chemical Substances Regulations and ensure dust suppression | LOW |
| | • Incompetent jack hammer operators | • Injuries<br>• Property damage | • Only competent operators will operate the jack hammer. | LOW |
| | • Vibration | • Hand arm vibration syndrome due to excessive vibration. | • Rotation of operators as and when (to reduce exposure time) required.<br>• Maintenance and care of equipment<br>• Training - ensure that employees are trained to recognise the signs and symptoms of<br>• Appropriate PPE | LOW |

| Options and activities | | | | |
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| **Options and Activity, step or action step** | **Hazards** | **Associated risk event** | **Risk controls** | **Risk Rating** |
| | • Defective jack hammer | • Injuries to operator or fellow co-workers | • Serviced and well-maintained jack hammer must be used.<br>• Inspection of jack hammer and other tools must be done before use.<br>• Defective jack hammer must be removed from site. | LOW |
| | • Using of plant close to the other existing structures | • Possible fire<br>• Property damage | • The acceptable working distance of the plant must be always monitored closely. | HIGH |
| Excavations | • Moving plant and equipment | • Accidents<br>• Traffic Congestion<br>• Injury to persons | • Contractor to develop traffic manage plan<br>• Contractor to comply with health and safety site specification. | HIGH |
| | • Uneven Surfaces and poor ground stability | • Injuries to persons, possible fatalities, property damage | • Contractor to ensure level ground Stability and adhere to geotech studies | MEDIUM |
| | • Moving of machinery | • Machinery knocking employees resulting in injuries | • Employees to be aware and stay clear of moving machinery.<br>• Reverse sound to be fitted on moving machinery.<br>• Only competent and experienced operator shall operate machinery.<br>• Contractor to comply with Driven Machinery regulations,2015 and 18(11) | MEDIUM |
| | • Existing services, Damage to electrical cables, water services, communication cables disruption | • Damage to cables and services results in disruption to operations, services and electrocution | • Hand excavation mandatory<br>• Permit system must be followed<br>• Survey<br>• Detection equipment<br>• Existing undergrounds services plans. | HIGH |

| Options and activities | | | | |
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| **Options and Activity, step or action step** | **Hazards** | **Associated risk event** | **Risk controls** | **Risk Rating** |
| | • Incorrect use of hand tools | • Injuries to employees | • Contractor to ensure inspection of all equipment including hand tools | LOW |
| Excavations | • Exposure to noise | • Noise induced hearing loss | • Contractor to comply with Noise induced Hearing Loss regulations,2003 | MEDIUM |
| | • Exposure to dust | • Respiratory diseases caused by dust inhalation. | Contractor must comply with Hazardous Chemical Substances Regulations and ensure dust suppression | LOW |
| | • Incompetent jack hammer operators | • Injuries<br>• Property damage | • Only competent operators will operate the jack hammer. | LOW |
| | • Vibration | • Hand arm vibration syndrome due to excessive vibration. | • Rotation of operators as and when required.<br>• Contractor to comply with Occupational Health Risk assessment. | LOW |
| | • Defective jack hammer | • Injuries to operator or fellow co-workers | • Serviced and well-maintained jack hammer must be used.<br>• Inspection of jack hammer and other tools must be done before use.<br>• Defective jack hammer must be removed from site. | LOW |
| | • Using of plant close to the other existing structures | • Possible fire<br>• Property damage | • The use of the plant from the barge or berth must not pose a risk to hitting or coming into contact with any structures by ensuring there is a flag man in place to guide the competent operator whilst performing his task at hand<br>• The acceptable working distance of the plant must be always monitored closely. | HIGH |

| Options and activities | | | | |
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| **Options and Activity, step or action step** | **Hazards** | **Associated risk event** | **Risk controls** | **Risk Rating** |
| | • Moving plant and equipment<br>• | • Accidents<br>• Traffic Congestion<br>• Injury to persons | • Contractor to develop traffic manage plan<br>• Contractor to comply with health and safety site specification. | HIGH |
| | • Uneven Surfaces and poor ground stability | • Injuries to persons, possible fatalities, and property damage | • Contractor to ensure level ground Stability and adhere to geotech studies | MEDIUM |
| | • Moving of machinery | • Machinery knocking employees resulting in injuries | • Employees to be aware and stay clear of moving machinery.<br>• Reverse sound to be fitted on moving machinery.<br>• Only competent and experienced operator shall operate machinery.<br>• Contractor to comply with Driven Machinery regulations,2015 and 18(11) | MEDIUM |
| | • Existing services, Damage to electrical cables, water services, communication cables disruption | • Damage to cables and services results in disruption to operations, services and electrocution | • Hand excavation mandatory<br>• Permit system must be followed<br>• Survey<br>• Detection equipment<br>• Existing undergrounds services plans. | HIGH |
| | • Incorrect use of hand tools | • Injuries to employees | • Contractor to ensure inspection of all equipment including hand tools | LOW |
| Refurbishment of existing structures/Concrete Slabs and removal of | • Structure stability | • uncontrolled collapse | • Structure stability to be assessed as part of the method statement before and during demolition.<br>• Area to be barricaded to avoid any employees walking/working in close proximity of the structure | HIGH |

| Options and activities | | | | |
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| **Options and Activity, step or action step** | **Hazards** | **Associated risk event** | **Risk controls** | **Risk Rating** |
| **existing debris works from site.** | | | • **Continuous assessment of the structure and monitoring of employees not to work close to unstable structure** | |
| | • **Improper disposal of waste materials** | • **Injuries and illness to employees.**<br>**Work stoppage.** | • **Contractor to ensure they comply to the approved EMPr.**<br>**Contaminated materials must be disposed at an approved disposal site.** | **MEDIUM** |
| | • **Open excavations** | • **Injury to people.** | • **Contractor must ensure they comply with the excavation permit.**<br>**Contractor to comply with geotech controls.** | **MEDIUM** |
| | • **Damage to underground services during excavation** | • **Injury to persons when damaging underground services** | • **Contractor to ensure that underground services are identified and avoided during excavation.**<br>• **Contractor to apply for excavation permit prior to all excavation activities.** | **MEDIUM** |

| Options and activities | | | | |
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| **Options and Activity, step or action step** | **Hazards** | **Associated risk event** | **Risk controls** | **Risk Rating** |
| | • Poor Ingres & egress to the excavation | • Employees sustaining injuries due to poor access to the trench. | • For each excavation more than 1.2 metres deep, a safe means of access and egress (e.g. Ladders, steps or ramps) must be provided for persons working in the excavation.<br>• Safe entry and exit points must be located i.e. an exit point must not be more than 6 metres away from any person working in the excavation.as per CR 13 | HIGH |
| | • Excavation collapsing | • Employees being buried in deep excavations | • Contractor to ensure that deep excavations are controlled as per cr13. | HIGH |
| | • Contaminated material exposed during excavation | • Possible contamination to the environment | • Contractor to ensure compliance to geotech risk controls. | HIGH |
| | • Dust generated when back filling with sand. | • Respiratory diseases caused by dust inhalation. | • Contractor to develop the safe work practices. And to ensure compliance to the Construction Regulations. | HIGH |
| | • Vibration | Collapse of open excavations and could lead to injuries and burying of employees | • Contractor to comply to excavation permit conditions and develop method statement and safe work procedure. | MEDIUM |
| | • Erection of temporary works from Unapproved Drawings | • Injury to persons and employees<br>• Fatilities | • Contractor to ensure compliance to CR 12<br>Adherence to SANS CODE 10085 | MEDIUM |
| Layer works | • Defective tools used to place formwork | • Injuries to employees | • Contractor to ensure inspection of all equipment including hand tools | LOW |

| Options and activities | | | | |
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| **Options and Activity, step or action step** | **Hazards** | **Associated risk event** | **Risk controls** | **Risk Rating** |
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| | • Incorrect use of hand tools | • Injuries to employees | • Contractor must ensure that employees are using the correct type of tool for the activity. | LOW |
| | • Manual handling of reinforcement material | • Back injuries<br>• Musculoskeletal disorders | • Employees not to lift material heavier than 20kg alone. | LOW |
| | • Manual handling of formwork material | • Injuries to employees when lifting material in awkward position | • Contractor to ensure that employees are trained to not handle materials in awkward positions though Risk assessments, DSTI and toolbox talks. (Ergonomics training)<br>• Employees not to lift material heavier than 20kg alone.<br>Contractor to ensure usage of appropriate gloves. | MEDIUM |
| | • Incorrect stacking of bricks | Stacking collapsing injuring employees | • Contractor to appoint a stacking supervisor to supervise all stacking activities.<br>Bricks must be stacked on a levelled surface | LOW |
| Installation of steelwork for foundations | Undertaking hot work without a hot work permit in place. | • Work stoppages<br>• Time Delays | • The contractor shall apply for a hot work permit prior to commencement of the task.<br>• Permits and warning signs are to be displayed at entry points to hot work areas. | HIGH |

| Options and activities | | | | |
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| **Options and Activity, step or action step** | **Hazards** | **Associated risk event** | **Risk controls** | **Risk Rating** |
| | | | • Permits must be valid at the time work is being undertaken. | |
| | • Exposure to UV, IR Radiation | • Arc-eye<br>loss of vision | • Contractor to comply with section 9 of General Safety Regulations<br>• Contractor to ensure operators are trained in safe work practices<br>• The contractor shall compile a comprehensive risk assessment prior to commencement of task.<br>• Contractor to ensure that welders are trained, competent and experienced. | LOW |
| | • Hot works | • Possible fire<br>• Burns to employees | • Contractor to comply with section 9 of General Safety Regulations<br>• Warning signs shall be posted around and at each level below the area of each overhead welding or burning operation. Fire extinguishers shall be available and fire blankets shall be used for protection.<br>• The contractor to ensure appropriate screening is in place to protect the surrounding workspace.<br>• Ensure operator has been trained in safe work practices | MEDIUM |
| | • Defective machinery | • Injuries to employees and possible property damage | Contractor to ensure the inspection of hot work equipment by a competent person. | LOW |

| Options and activities | | | | |
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| **Options and Activity, step or action step** | **Hazards** | **Associated risk event** | **Risk controls** | **Risk Rating** |
| **Working in Elevated Positions** | • **Working at Heights.** | • **Falling from heights, sustaining injuries such as loss of limbs and possible fatalities** | • **Contractor to consider the weather when working at heights.**<br>• **Contractor must ensure that working at heights activities do not take place in inclement weather and or when the wind speed is high.**<br>• **Fall protection plan to be developed by appointed competent person and implemented**<br>• **Demarcation of areas where there is work at heights**<br>• **The Contractor must ensure that all employees working at heights undergo Medical Surveillance to ensure fitness for duty.**<br>• **Contractor to ensure that employees are trained and found competent to work at heights and proof of training must be provided.**<br>• **Contractor to ensure that employees are trained and found competent to use double lanyard safety harness.**<br>• **Contractor to comply with section 10 of Construction Regulations, 2014** | **HIGH** |
| | • **Working on scaffolding** | • **Scaffolding collapsing causing injuries to employees and possible fatalities** | • **Contractor to ensure Scaffolds comply with SANS 10085**<br>• **Contractor to Comply with Section 16 of Construction Regulations,2014**<br>• | **HIGH** |

| Options and activities | | | | |
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| **Options and Activity, step or action step** | **Hazards** | **Associated risk event** | **Risk controls** | **Risk Rating** |
| | • Defective ladder used | • Employee falling from a ladder sustaining injuries | • Contractor to ensure ladder inspection is done before use.<br>• Contractor to ensure that employees are trained on the safe use of a ladder. | HIGH |
| Handling, Storage & Disposal of Hazardous chemical substances. | • Incorrect storage and handling of hazardous waste | • Contamination of receiving environment. | • Waste storage as per project EMP requirements<br>• Cradle-to-grave approach to be followed.<br>• Contractor to adhere to the OHSACT and HCS Regulations, when dealing with Hazardous Chemical Substances.<br>• Waste to be transported and disposed of as per National and Local Regulations<br>• Licenced waste contractor to be appointed.<br>• All painters must be trained, and proof of competency and previous experience be provided.<br>• Correct PPE to be worn for the task MSD's to be read and adhered to when using Hazardous & Chemical substances | HIGH |
| Working in confined spaces | • Unauthorised entry | • Physical Injuries / death | • The confined space is to be manned by a competent and trained safety watch preventing unauthorised entry into the area.<br>• All employees must be trained and found competent before entering confined space. | HIGH |

| Options and activities | | | | |
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| **Options and Activity, step or action step** | **Hazards** | **Associated risk event** | **Risk controls** | **Risk Rating** |
| | | | • Air monitoring to be conducted prior to entering the confined space, and throughout the duration of the task.<br>• Contractor to apply for confined space entry permit before going inside confined space. | |
| | • Insufficient oxygen levels | • Respiratory illnesses due to suffocation | • Contractor to comply with Section 5 of General safety regulations. | HIGH |
| Electrical installations | • Isolation and lock out procedure not followed during installation<br>• | • Electrocution<br>• Possible fatality<br>• Physical damage to structures. | • Adherence to Electrical Installation Regulations, under the Occupational Health & Safety Act, Act 85 of 1993.<br>• Contractor must adhere to SANS 10142 | HIGH |
| | • Working in awkward positions | • musculoskeletal disorders | • Contractor to ensure that employees do not stay in awkward positions for a long time. | HIGH |
| | • Manual handling | • Hand and back injuries | • Contractor to ensure employees are trained on correct manual lifting techniques.<br>• Employees to use appropriate gloves when doing manual handling.<br>• Employees not to lift material heavier than 20kg alone. | LOW |
| Lifts installations | • Structural hazards | • Cracking of existing walls and floors caused by the addition of new loads | • Contractor to ensure that they appoint structural engineer to design, supervise and sign off the structural works | HIGH |
| | • Electrical and mechanical hazards | • Electrocution or electrical burns from damaged or exposed wiring | • Contractor to ensure that they appoint Electrical engineer/electrician to supervise | HIGH |

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| | | | and sign off the electrical works | |
| | • Working at height and fall hazards | • Falls from height into an open lift shaft , scaffolding or floor openings<br>• Dropped tools or materials, potentially injuring workers below | • Contractor to install temporary barrier around open shaft edges<br>• Contractor to use fall arrest systems<br>• Contractor to cover floor openings with secured, load rated covers | HIGH |
| External environmental conditions not associated with any activities | • Working in the sun without drinking liquids | • Dehydration | • Provide cool water in the workplace and encourage workers to drink it frequently in small amounts before, during and after working. | HIGH |

| Options and activities | | | | |
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| **Options and Activity, step or action step** | **Hazards** | **Associated risk event** | **Risk controls** | **Risk Rating** |
| | • Open excavation/trenches<br>• Use of defective tools and equipment (spades and forks) | • Employee falling into excavation and or excavation full of water during rainy periods<br>• Injuries (cuts, abrasion etc) | • Method statement for drainage of excavations, adequate drainage procedure, daily inspections, and inspections after inclement weather, monitor weather forecasts, ensure correct batter angles, shoring to prevent collapse<br>• Contractor to ensure employees are trained on safe use of hand tools.<br>• Pre-inspections of tools by Contractor<br>• Contractor to ensure appropriate PPE is always worn. | HIGH |
| | • Heat | • Heat stroke - hot dry skin, confusion, convulsions and eventual loss of consciousness. This is the most severe disorder and can result in death if not detected at an early stage | • Contractor to compile and implement a heat management procedure, practices and emergency procedures providing periodic rest breaks and rest facilities in cooler conditions | HIGH |
| | • Exposure to cement dust | • Inhalation of dust which may lead to respiratory illnesses | • Contractor must comply with Hazardous Chemical Substances Regulations | HIGH |
| | • Extreme weather conditions | • The contractor may expose employees to risks associated with hot and cold thermal stress (e.g. heat stress and dehydration) | • Requirements for Thermal Stress to be included onto Health and Safety Plan | HIGH |

| Options and activities | | | | |
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| **Options and Activity, step or action step** | **Hazards** | **Associated risk event** | **Risk controls** | **Risk Rating** |
| | • Inadequate lighting | • Insufficient light - not enough (too little) light for the need.<br>• Glare - too much light for the need.<br>• Improper contrast.<br>• Poorly distributed light.<br>• Flicker. | • Contractor must conduct Lighting survey before initiating night work.<br>• Contractor to ensure the site is well lit at night as workers should not be allowed to work in the dark. | HIGH |
| Replace the existing 500 kVA Generator with a 1 MVA Generator<br>Installation of fibre to the facilities<br>Installation of the CCTV cameras | • No lockout procedure in place.<br>• Incorrect placement/use of equipment<br>• Working at heights<br>Use of hand tools (drill machine, multimeter, spanners) | • Unauthorised equipment<br>• operation, equipment starting unexpectedly<br>• Electric shock<br>• Fires<br>• Property damage<br>• Hand injuries, cuts, and abrasions | • Lockout/tag out procedure<br>• Train employees on Lockout procedure<br>• SOP<br>• Competent Electrician<br>• COC certificate<br>• PPE<br>• EIR 6 (Electrical Contractor)<br>• EIR 9 (Issuing of certificate of competence)<br>• CR 9 (Risk assessment for construction work)<br>• Contractor must adhere to SANS 10142<br>• Contractor to ensure ladder inspection is done before use.<br>• Contractor to ensure that employees are trained on the safe use of a ladder. | |
| Installations within the refurbished building<br>• Bird proofing<br>• Ceiling clean-up | • Exposure to noise<br>• Exposure to dust<br>• Sharp edges Power tools (saws and drills) | • Noise induced hearing loss<br>• Respiratory diseases caused by dust inhalation. | • Contractor to comply with Noise induced Hearing Loss regulations,2003<br>• Dust suppression methods<br>• Appropriate PPE including gloves | |

| Options and activities | | | | |
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| **Options and Activity, step or action step** | **Hazards** | **Associated risk event** | **Risk controls** | **Risk Rating** |
| • Replacement of ceiling | • Manual handling<br>• Working @ Heights | • Cuts/Abrasions and pinch injuries<br>• Musculoskeletal disorders like backaches, from twisting and lying at awkward angles to access restricted areas<br>• Falling from heights, sustaining injuries such as loss of limbs and possible fatalities<br>• Skin irritation and Respiratory illnesses | • Only experienced and qualified employees to use power tools<br>• Contractor to consider the weather when working at heights.<br>• Contractor must ensure that working at heights activities do not take place in inclement weather and or when the wind speed is high.<br>• Fall protection plan to be developed by appointed competent person and implemented<br>• Demarcation of areas where there is work at heights<br>• The Contractor must ensure that all employees working at heights undergo Medical Surveillance to ensure fitness for duty.<br>• Contractor to ensure that employees are trained and found competent to work at heights and proof of training must be provided.<br>• Contractor to ensure that employees are trained and found competent to use double lanyard safety harness.<br>• Contractor to comply with section 10 of Construction Regulations, 2014 | |
| **Installation of wallpaper<br>Painting** | • Manual handling<br>• Working @ Heights<br>• Handling of hazardous materials | • Musculoskeletal disorders like backaches, from twisting and lying at | • Appropriate PPE including gloves<br>• Only experienced and qualified employees to use power tools | |

| Options and activities | | | | |
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| **Options and Activity, step or action step** | **Hazards** | **Associated risk event** | **Risk controls** | **Risk Rating** |
| | • Chemical Fumes from paint<br>• Paint coming into contact with the skin | awkward angles to access restricted areas<br>• Falling from heights, sustaining injuries such as loss of limbs and possible fatalities<br>• Skin irritation and Exposure to solvent vapours may result in a number of health effects, e.g. the central nervous system, respiratory system.<br>• Respiratory illnesses | • Contractor to consider the weather when working at heights.<br>• Contractor must ensure that working at heights activities do not take place in inclement weather and or when the wind speed is high.<br>• Fall protection plan to be developed by appointed competent person and implemented<br>• Demarcation of areas where there is work at heights<br>• The Contractor must ensure that all employees working at heights undergo Medical Surveillance to ensure fitness for duty.<br>• Contractor to ensure that employees are trained and found competent to work at heights and proof of training must be provided.<br>• Contractor to ensure that employees are trained and found competent to use double lanyard safety harness.<br>• Contractor to comply with section 10 of Construction Regulations, 2014<br>• Contractor to adhere to the OHSACT and HCS Regulations, when dealing with Hazardous Chemical Substances. | |

**Annexure 1 – Risk Matrix and Descriptions**

| Likelihood | Consequence | | | | |
|---|---|---|---|---|---|
| | Insignificant | Minor | Moderate | Major | Critical |
| Almost Certain | Medium | Medium | High | Extreme | Extreme |
| Likely | Low | Medium | High | High | Extreme |
| Possible | Low | Medium | High | High | High |
| Unlikely | Low | Low | Medium | Medium | High |
| Rare | Low | Low | Low | Low | Medium |

| Assessed Risk Level | Description of Risk Level | Action Required |
|---|---|---|
| Low | If an incident were to occur, there would be little likelihood that an injury would result | Undertake the activity with the existing controls in place |
| Medium | If an incident were to occur, there would be some chance that an injury requiring First Aid would result | Additional controls may be needed |
| High | If an incident were to occur, it will be likely that an injury requiring medical treatment would result | Controls will need to be in place before the activity is undertaken |
| Extreme | If an incident were to occur it, it would be likely that a permanent or death would result | Consider alternatives to doing the activity. Significant control measures will need to be implemented to ensure safety |

| Likelihood | Desciption of Likelihood | | Consequence | Description of Consequence |
|---|---|---|---|---|
| 1. Rare | Will only occur in exceptional circumstances | | 1. Insignificant | No treatment required |
| 2. Unlikely | Not likely to occur within the foreseeable future, or withing the project lifecycle | | 2. Minor | Minor injury requiring First Aid treatment (e.g. minor cuts, bruises, bumps) |
| 3. Possible | May occur within the foreseeable future, or within the project lifecycle | | 3. Moderate | Injury requiring medical treatment or lost time |
| 4. Likely | Likely to occur within the foreseeable future, or within the project lifecycle | | 4. Major | Serious injury (injuries) requiring specialist medical treatment or hospitalisation |
| 5. Almost Certain | Almost certain to occur within the foreseeavle future or within the project lifecycle | | 5. Critical | Loss of life, permanent disability or multiple serious injuries |