



Ward 1 of the Ga-Segonyana Local Municipality within the John Taolo Gaetsewe District Province

PRELIMINARY OCCUPATIONAL HEALTH AND SAFETY STAGE 3 REPORT - NEW DEVELOPMENT ADDITIONS & ALTERATIONS TO KURUMAN TAXI AND BUS RANK PROJECT



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1. INTRODUCTION:

Health and Safety is an integral part of any construction project.

In accordance with the Occupational Health and Safety Act (Act 85 of 1993) every employer has the responsibility to ensure the health and safety of all employees, contractors, and members of the public whose health and safety may be impacted by the activities to be performed on their respective projects.

2. PROJECT BACKGROUND:

The Ward 1 of the Ga-Segonyana Local Municipality within the John Taolo Gaetsewe District Province have undertaken to carry out New Development Additions & Alterations to Kuruman Taxi and Bus Rank Project.

The Ward 1 of the Ga-Segonyana Local Municipality within the John Taolo Gaetsewe District Province shall act as the Implementing Agent and have appointed RMDARPM Joint Venture Management for the provision and undertaking of professional structural engineering services at the Kuruman Taxi and Bus Rank Project. The structural engineer is required to design (if required), specify, and supervise the execution of works at the school.

Candice Projects and Safety Concern (Pty) Ltd have been appointed to consult on all Health and Safety aspects related to the intended project.

All Contractors shall be appointed by RMDARPM Joint Venture Management in terms of the provisions of the contract document.

As part of the Concept Stage the Client must in relation to the construction part of the project comply with the Occupational Health and Safety Act (Act 85 of 1993) as well as various other legislative and regulatory requirements, in particular Section 5 of the Construction Regulations of 2014 (Duties of the Client).

The client is required to provide as part of its tender documents specific documentation and information pertaining to the health and safety hazards and risks involved in the activities of the intended project. This includes the provisioning of:

- A baseline risk assessment that identifies all hazards and risks associated with the activities which must also include all environmental hazards and risks.
- A project specific health and safety specification that is in line with all legislative and regulatory requirements.

The purpose of the baseline risk assessment is to inform all potential contractors of the hazards and risks involved on the intended project, and the purpose of the project specific health and safety specification is to provide all potential contractors with the minimum acceptable requirements to which they will have to abide by if appointed on the contract.

The above-mentioned documentation serves a second purpose, which is, to ensure that every potential contractor includes in their budget, the provisioning of the required health and safety measures when tendering on the intended project.

3. PURPOSE OF THE OHS CONCEPT REPORT

The purpose of the OHS Concept Report is to provide the client with an outline of the required Occupational Health and Safety requirements as provisioned in the relevant legislation and regulations governing the employers' (client's) responsibilities when undertaking a construction project.

The provision of this report is not a detailed description of the health and safety requirements for the intended project, but rather a guide to enable the client to ensure that the requirements of the relevant legislation and regulations is met with each stage of the project.

4. LEGAL REQUIRMENTS, REFERENCES & GUIDELINES:

The following legislation and regulations must be incorporated during the design and planning stage of the intended project.

- Disaster Management Act (Act 57 of 2002)
- Disaster Management Response Regulations
- Occupational Health and Safety Act (Act 85 of 1993)
- Construction Regulations 2014;
- Compensation for Occupational Injuries and Diseases Act 1993;
- SANS Standards pertaining to the Scope of Work;
- National Road Traffic Act (Act 93 of 1996) and National Road Traffic Regulations, 2000);
- Hazardous Substances Act (Act 85 of 1973)
- Project and Construction Professions Act (Act 48 of 2000)
- Prevention of Environmental Pollution Ordinance 21 of 1981
- National Heritage Resources Act
- National Water Act
- Water Services Act (Act 108 of 1997)
- General Safety Regulations
- General Administrative Regulations
- Asbestos Regulations
- Regulation for Hazardous Chemical Agents 2021
- Electrical Machinery Regulations
- Driven Machinery Regulations
- Environmental Regulations for Workplaces
- Pressure Equipment Regulations
- Basic Conditions of Employment Act (Act 75 of 1997)
- Labour Relations Act (Act 66 of 1995)
- Employment Equity Act (Act 55 of 1998) (Chapters 1 and 2)
- Skills Development Act of 1998.

5. HEALTH & SAFETY REQUIREMENTS:

The intended project requires the standard compliance in respect of the Health and Safety arrangements as indicated in the Occupational Health & Safety Act (Act 85 of 1993) and all regulations associated with the scope of work as well as any special requirements which will be identified during the design and planning stage of the project.

The following possible activities and areas have been identified as possible high-risk activities and areas which may require additional health and safety arrangements during the construction stage of the project.

- Visitors.
- Current Facilities
- Asbestos Handling (Removal, Packaging, Transporting and Safe Disposal)
- Bulk Earth Works.
- Concrete Works.
- Temporary Works.
- Form Works.
- Roof Works.
- Brickworks.
- Electrical Works.
- Plumbing Works.
- Working at Heights (Performing activities from an elevated position).
- Use of Heavy Vehicles and Mobile Plant.
- Use of Portable Electrical Hand Tools.

Where required the provisioning of additional health and safety arrangement should be done in strict compliance with the Acts and regulations associated with the scope of works to ensure the safety of visitors, contractor employees as well as the property of the client.

6. BASELINE RISK ASSESSMENT

Prior to the tender stage of the project, it shall be required that the client and/or client's Health and Safety Agent conduct a thorough baseline risk assessment for the entire project based on the scope of work and all specific high-risk tasks to be undertaken.

The baseline risk assessments must be included in the tender documents.

Apart from all high-risk tasks that may be performed during the project period the following activities must be covered in the baseline risk assessment:

- Site Establishment.
- Site Security and Access Control.
- Visitors (parents and other).
- Asbestos Handling (Removal, Packaging, Transporting and Safe Disposal)
- Excavations for new structures to be constructed.
- Steel fixing and Reinforcing.
- Concrete Works.
- Batch Plant and other mobile construction plant.
- Temporary Works.
- Formworks.
- Support Works.
- Brick Works.
- Electrical Works.
- Working at elevated positions (roof works, ceilings, mechanical, electrical, etc)
- Work involving the use of portable electrical equipment.
- Work involving Hazardous Chemical Agents and Flammable Liquids.
- Plumbing Works.

- Waste Management.
- Environmental Hazards.

Only some of the Regulations involving high-risk works is highlighted here:

ASBESTOS HANDLING (Removal, Packaging, Transporting and Safe Disposal)

Asbestos is present on site. All are to be demolished and be replaced as per the client's approval.

Due to the presence of Asbestos the required process must be implemented under strict compliance with the following regulations as stipulated below.

The removal, handling transporting, and disposal of asbestos must be done by an approved contractor registered with the Department of Labour.

THE PROCESS:

Regulation 3: Notification to the provincial Director

Write a letter to the Provincial Director of the Department of Labour notifying him or her about the asbestos work which will be done. Outline how it will be done and the procedures to follow when working with asbestos. State all safety concerns of employees and the community at large.

Regulation 4: Exposure

Ensure that no person or employee will be exposed to asbestos dust or fibres if that place or environment is not made safe. Provide the relevant PPE including the correct dust masks or respirators which will protect people from the exposure.

Regulation 5: Information and Training

Hire an expert on asbestos to train employees about asbestos work and hazards associated with asbestos work. The expert trainer has to ensure that the employees are fully trained on aspects of asbestos work. Refresher training to be done on a weekly basis to ensure that they remember the hazards associated with asbestos regularly.

Regulation 9: Medical Surveillance

Subject all employees to an Entry Medical Fitness Evaluation at a registered Occupational Medical Practitioner before they commence with work. Entry medicals must include a chest x-ray. This will be to ensure that employees are fit for work before the asbestos work and ensuring that employees have not been employed whilst being sick. They also have to do an exit medical after the project ends to ensure that they did not develop any sickness while they were working with asbestos. The estimated cost for an entry medical including chest x-rays are at around R950 or more per person, the same amount applies for an exit medical fitness evaluation.

Regulation 12: Cleanliness

Provide the relevant PPE to employees. Ensure that the PPE is cleaned daily by an approved laundry services that will ensure the correct handling of clothing items that may be contaminated. Laundry must be filtered so that the remaining particles are dumped according to the correct procedures. Also provide showering facilities so that employees shower after working with asbestos. That means even the tools or equipment used is also cleaned correctly.

Regulation 20: Disposal of Asbestos

Ensure that asbestos waste is placed in containers that will prevent the likelihood of exposure to the personnel. Vehicles and which transport asbestos waste must be cleaned and decontaminated after use.

Regulation 23: Offences and Penalties

Non-compliance in respect of these regulations if found guilty is punishable under the law by means of a fine of R81 000 or imprisonment for 12 months and in the case of continuous offence, to an additional R82000 for each day on which the offence continues or 1 day imprisonment of each day on which the offence continues.

Costs involved in the process.

Cost to be considered in respect of these regulations may include:

- Hiring an expert trainer
- PPE X 3 per employee
- Laundry costs on daily basis
- Medical surveillance to each employee (Entry Medical + Exit Medical)
- Plastic bags or containers to store asbestos.
- Transportation costs etc
- Disposal/Destruction of asbestos waste.

General Safety Regulations 2(C): Admittance of Persons

The appointed contractor shall ensure that each work area is demarcated and secured against any access by unauthorised persons.

Access Control shall be implemented, and notices shall be displayed at each entrance (Authorised Personnel Only as well as all other notices in accordance with GSR2(B)) to each of the construction areas.

The contractor shall inform the Ward 1 of the Ga-Segonyana Local Municipality within the John Taolo Gaetsewe District Province in writing of the affected areas as the work progress.

The Contractor will be allowed to reserve the right of access to all construction areas, and where required take legal action against any unauthorised person entering a demarcated area in accordance with the Trespass Act (Act 6 of 1959).

Where access by an unauthorised person is gained through illegal means (as defined under breaking and entering) the contractor shall not be held liable for any injuries or damages sustained by the unauthorised person or the client.

Working at Heights: CR10

Where any activity is to be performed from an elevated position which holds the risk of falling from, falling through, or falling into, the contractor shall appoint a competent person in writing as the Fall Protection Planner/Designer in order to develop a project specific Fall Protection plan.

The Fall Protection Plan must identify all activities and provide for the safe work procedures in respect of each of the activities to be performed.

The Fall Protection Plan must also include a rescue plan identifying all possible incidents that may require the possible rescue/recovery of an injured person.

All activities performed from an elevated position shall be done in strict compliance with Section 10 of the Construction Regulations.

Structural Works: CR11

All Structural Works are to be done in strict compliance with Section 11 of the Construction Regulations.

All structural works are to be done under the supervision of a competent person appointed in writing in terms of Construction Regulation 11(1)(a).

Structures are to be inspected on a regular basis by a competent person appointed in writing in terms of Construction Regulation 11(2)(a)

Temporary Works: CR12

Where any temporary works are to be provided in respect of structural support strict adherence in respect of Section 12 of the Construction Regulations shall apply:

The Contractor must appoint in writing a competent person as a Temporary Works Designer to design, inspect and approve all temporary works onsite before use.

The Contractor must appoint in writing a competent person as a Temporary Works Supervisor to ensure that the provisions of Section 12 of the Construction Regulations are met for the duration of the project.

Excavations: CR13

The Contractor must appoint in writing a competent person as an Excavation Supervisor to ensure that all excavations are done in accordance with Section 13 of the Construction Regulations.

All excavations shall be clearly marked and barricaded with 1-metre-high orange netting on all sides.

Deep Excavations must make provision for proper access and egress spaced at not more than 6 meters apart.

All excavational works are to be done in strict adherence with Section 13 of the Construction Regulations.

Environmental:

The client must appoint an Environmental Officer to compile an Environmental Management Plan for the intended project.

Contractors must work in strict compliance with the Environmental Management Plan.

All aspects and impacts as identified by the appointed Environmental Officer must be included in the Environmental Management Plan.

The Environmental Management Plan must be communicated to all persons including the professional team on the project prior to the commencement of any activity on site.

Monthly inspections and environmental audits are to be done by the Environmental Officer.

All Environmental Reports and audits must be provided within 3 days after the inspection or audit was conducted.

Action plans on all non-conformances must be detailed and include the implementation of corrective actions.

Current Activities:

It shall be required that the Contractor perform the construction activities

The Contractor shall be required to provide for the sufficient demarcation/fencing and access control to all construction areas handed over to them (active and non-active construction areas). This includes all laydown, stockpile, and storage areas.

Where possible the contractor must perform all high noise activities after hours in order to minimise the interruption of classroom presentations and other academic activities.

Site Establishment:**The client must:**

- Identify and clearly mark the construction area(s).
- Identify and mark areas to be used for the erection/placement of site offices, facilities, laydown areas, and decanting facilities situated at a safe distance from the construction area(s).
- Identify all access and egress points to the construction site.
- Identify the connection points for services such as electricity, water, and sewerage.

The contractor must:

- Provide the client with a detailed site layout plan indicating the placement of the site offices, facilities, laydown area and decanting facilities including access and egress routes to the site, site offices and construction areas.
- Arrange for the connection and/or disconnection of services with each of the services owners as required.

Records:

The client must insist on the implementation, completion and upkeep of all records as required by the act and regulations.

All records must at all times be made available on site for the inspection by the client, client's

agent, environmental officer, or employee.

The client must also make available as part of their tender document, the health and safety specifications specific to the project. The health and safety specifications must comply with all provisions of the Occupational Health and Safety Act and all Regulations associated with the scope of work.