

OCCUPATIONAL HEALTH AND SAFETY SPECIFICATIONS FOR CPUT CONSTRUCTION PROJECTS

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1. 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.

“Agent” – means any person who acts as a representative for a client;

“Client” – means any person for whom construction work is performed;

“Construction Work” is defined as any work in connection with –

- (a) the erection, maintenance, alteration, renovation, repair, demolition or dismantling of or addition to a building or any similar structure;
- (b) the installation, erection, dismantling or maintenance of a fixed plant where such work includes the risk of a person falling;
- (c) the construction, maintenance, demolition or dismantling of any bridge, dam, canal, road, railway, runway, sewer or water reticulation system or any similar civil engineering structure; or
- (d) the moving of earth, clearing of land, the making of an excavation, piling, or any similar type of work;

“Contractor” – means an employer, as defined in Section 1 of the Act, who performs construction work and includes Principal Contractors;

“Health and Safety File” – means a file, or other record in permanent form, containing the information required or contemplated in the regulations;

“Health and Safety Plan” – means a documented plan which addresses hazards identified and includes safe work procedures to mitigate, reduce or control the hazards identified;

“Health and Safety Specification” – means a documented specification of all health and safety requirements pertaining to the associated works on a construction site, so as to ensure the health and safety of persons;

“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;

“Principal Contractor” – means an employer, as defined in section 1 of the Act who performs construction work and is appointed by the client to be in overall control and management of a part of or the whole of a construction site;

“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.

2. OCCUPATIONAL HEALTH & SAFETY MANAGEMENT

2.1 Structure and Organization of OH&S Responsibilities

2.1.1 Overall Supervision and Responsibility for OH&S

The Client and/or its Agent on its behalf to ensure that the Principal Contractor, appointed in terms of Construction Regulation 5(1)(k), implements and maintains the agreed and approved H&S Plan. Failure on the part of the Client or Agent to comply with this requirement will not relieve the Principal Contractor from any one or more of his/her duties under the Act and Regulations.

The Chief Executive Officer of the Principal Contractor in terms of Section 16 (1) of the Act to ensure that the Employer (as defined in the Act) complies with the Act. The pro forma Legal Compliance Audit may be used for this purpose by the Principal Contractor or his/her appointed contractor.

All OH&S Act (85 /1993), Section 16 (2) appointee/s as detailed in his/her/their respective appointment forms to regularly, in writing, report to their principals on matters of health and safety per routine and ad hoc inspections and on any deviations as soon as observed, regardless of whether the observation was made during any routine or ad hoc inspection and to ensure that the reports are made available to the principal Contractor to become part of site records (Health & Safety File).

The Construction Manager and Assistant Construction Manager/s appointed in terms of Construction Regulation 8 to regularly, in writing, report to their principals on matters of health and safety per routine and ad hoc inspections and on any deviations as soon as observed, regardless of whether the observation was made during any routine or ad hoc inspection and to ensure that the reports are made available to the principal Contractor to become part of site records (Health & Safety File).

All Health and Safety Representatives (SHE-Reps) shall act and report as per Section 18 of the Act.

2.1.2 Further (Specific) Supervision Responsibilities for OH&S

Several appointments or designations of responsible and /or competent people in specific areas of construction work are required by the Act and Regulations. The following competent appointments, where applicable, in terms of the Construction Regulations are required to ensure compliance to the Act, Regulations and Safety Standards.

3. REQUIRED APPOINTMENTS AS PER THE CONSTRUCTION REGULATIONS

Item	Regulation	Appointment	Responsible Person
1.	5(1)(k)	Principal contractor for each phase or project	Client
2.	7(1)(c)(v)	Contractor	Principal Contractor
3.	7(3)	Contractor	Contractor
4.	8(1)	Construction Manager	Contractor
5.	8(2)	Assistant Construction Managers	Contractor
6.	8(6)	Construction Safety Officer	Contractor
7.	9(1)	Person to carry out risk assessment	Contractor
8.	9(3)	Trainer/Instructor	Contractor
9.	9(1)(a)	Fall protection planner	Contractor
10.	12 (a)	Formwork & support work supervisor	Contractor
11.	12(e) + (f)	Formwork & support work examiner	Contractor
12.	13(1)(a)	Excavation supervisor	Contractor
13.	13(2)(b)(ii)(bb)	Professional engineer or technologist	Contractor
14.	13(2)(k)	Explosives expert	Contractor
15.	14(1)	Supervisor demolition work	Contractor
16.	14(2) + (3)	Demolition expert	Contractor
17.	14(11)	Explosives expert	Contractor
18.	16(1)	Scaffold supervisor	Contractor
19.	17(1)	Suspended platform supervisor	Contractor
20.	17(2)(c)(i)	Compliance plan developer	Contractor
21.	17(8)(c)	Suspended platform expert	Contractor
22.	17(13)	Outrigger expert	Contractor
23.	19(8)(a)	Material hoist inspector	Contractor
24.	20(1)	Batch plant supervisor	Contractor
25.	20(6)	Batch plant operator	Contractor
26.	21(2)(b)	Power tool expert	Contractor
27.	21(2)(g)(i)	Power tool controller	Contractor
28.	22(e)	Tower crane operator	Contractor
29.	23(1)(d)(i)	Construction vehicle and mobile plant operator	Contractor
30.	21(1)(k)	Construction vehicle and mobile plant inspector	Contractor
31.	24(d)	Temporary electrical installations inspector	Contractor
32.	24(c)	Temporary electrical installations controller	Contractor
33.	28(a)	Stacking and storage supervisor	Contractor
34.	29(h)	Fire equipment inspector	Contractor

This list may be used as a reference or tool to determine which components of the Act and Regulations would be applicable to a particular site. This list must not be assumed to be exclusive or comprehensive.

4. COMMUNICATION AND LIAISON

- 4.1 OH&S Liaison between the Employer, the Principal Contractor, the other Contractors, the Designer and other concerned parties shall be through the H&S Committee as per the procedures determined by the H&S Committee.
- 4.2 In addition to the above, communication may be directly to the Client or his appointed Agent, verbally or in writing, as and when the need arises.
- 4.3 Consultation with the workforce on OH&S matters will be through their Supervisors and H&S Representatives ('SHE – Reps').
- 4.4 The Principal Contractor will be responsible for the dissemination of all relevant OH&S information to the other Contractors e.g. design changes agreed with the Client and/or its Agent on its behalf and the Designer, instructions by the Client and/or his/her agent, exchange of information between Contractors, the reporting of hazardous/dangerous conditions/situations etc.

5. INTERPRETATION

- 5.1 The Occupational Health and Safety Act and all its Regulations, with the exception of the Construction Regulations, distinguish between the roles, responsibilities and functions of employers and employees respectively. It views consultants and contractors as employees of the "owner" of a construction or operational project, the "owner" being regarded as the employer. Only if formally agreed to by way of the written agreement in this regard between the "owner(s)" and consultant and /or between the "owner(s)" and the contractor(s), will these assumptions be relinquished in favour of the position agreed upon between the relevant parties.
- 5.2 The position taken by the Construction Regulations is that the "owner", in terms of its instructions, operates (has to operate) in the role of client as per relevant definition. The contractors working for the "client" are seen to be in two categories, i.e. the Principal Contractor and Contractors. The Principal Contractor has to take full responsibility for the health and safety on the site of the relevant project / contract. This includes monitoring health and safety conditions and overseeing administrative measures required by the Construction Regulations from all contractors on the project site. (Ordinary / sub) Contractors are required to operate under the scrutiny and control (in terms of all health and safety measures which are covered in the Construction Regulations) of the Principal Contractor. Where, for the work the Principal Contractor will have to execute himself, practical health and safety measures are applicable, he will also be subject to the relevant requirements with which (ordinary / sub) Contractors have to comply. The Principal Contractor will, however, not have to actually fulfill such requirements in respect of any of the work / functions of any (ordinary / sub) Contractors on the site for which he has been appointed as Principal Contractor. However, he has to monitor / oversee such processes, ensuring that the requirements are complied with and that the required appointments / evaluations / inspections / assessments and tests are done and that the records are duly generated and kept as prescribed in the Construction Regulations. This has to feature clearly in the Principal Contractor's Health and Safety Plan.

6. RESPONSIBILITIES

6.1 Client

- 6.1.1 The Client or his appointed Agent on his behalf will appoint each Principal Contractor for this project or phase/section of the project in writing for assuming the role of Principal Contractor as intended by the Construction Regulations and determined by the Bills of Quantities.
- 6.1.2 The Client or his appointed Agent on his behalf shall discuss and negotiate with the Principal Contractor the contents of the health and safety plan of the both Principal Contractor and Contractor for approval.
- 6.1.3 The Client or his appointed Agent on his behalf, will take reasonable steps to ensure that the health and safety plan of both the Principal Contractor and Contractor is implemented and maintained. The steps taken will include periodic audits at intervals of at least once every month.
- 6.1.4 The Client or his appointed Agent on his behalf, will prevent the Principal Contractor and/or the Contractor from commencing or continuing with construction work should the Principal Contractor and/or the Contractor at any stage in the execution of the works be found to:
- a) have failed to have complied with any of the administrative measures required by the Construction Regulations in preparation for the construction project or any physical preparations necessary in terms of the Act;
 - b) have failed to implement or maintain their health and safety plan;
 - c) have executed construction work which is not in accordance with their health and safety plan;
or
 - d) Act in any way which may pose a threat to the health and safety of any person(s) present on the site of the works or in its vicinity, irrespective of him/them being employed or legitimately on the site of the works or in its vicinity.

6.2 Principal Contractor

- 6.2.1 The Principal Contractor shall accept the appointment under the terms and Conditions of Contract. The Principal Contractor shall sign and agree to those terms and conditions and shall, before commencing work, notify the Department of Labour of the intended construction work in terms of Regulation 4 of the Construction Regulations, which stipulates "Notification of Construction Work" form. The Principal Contractor shall submit the notification in writing prior to commencement of work and inform the Client or his Agent accordingly.
- 6.2.2 The Principal Contractor shall ensure that he is fully conversant with the requirements of this Specification and all relevant health and safety legislation. This Specification is not intended to supersede the Act nor the Construction Regulations or any part of either. Those sections of the Act and the Construction Regulations which apply to the scope of

work to be performed by the Principal Contractor in terms of this contract (entirely or in part) will continue to be legally required of the Principal Contractor to comply with. The Principal Contractor will in no manner or means be absolved from the responsibility to comply with all applicable sections of the Act, the Construction Regulations or any Regulations proclaimed under the Act or which may perceivable be applicable to this contract.

- 6.2.3 The Principal Contractor shall provide and demonstrate to the Client a suitable and sufficiently documented health and safety plan based on this Specification, the Act and the Construction Regulations, which shall be applied from the date of commencement of and for the duration of execution of the works. This plan shall, as appendices, include the health and safety plans of all Sub-contractors for which he has to take responsibility in terms of this contract.
- 6.2.4 The Principal Contractor shall provide proof of his registration and good standing with the Compensation Fund or with a licensed compensation insurer prior to commencement with the works.
- 6.2.5 The Potential Principal Contractor shall, in submitting his tender, demonstrate that he has made provision for the cost of compliance with the specified health and safety requirements, the Act and Construction Regulations. (Note: This shall have to be contained in the conditions of tender upon which a tenderer's offer is based.)
- 6.2.6 The Principal Contractor shall consistently demonstrate his competence and the adequacy of his resources to perform the duties imposed on the Principal Contractor in terms of this Specification, the Act and the Construction Regulations.
- 6.2.7 The Principal Contractor shall ensure that a copy of his health and safety plan is available on site and is presented upon request to the Client, an Inspector, Employee or Sub-contractor.
- 6.2.8 The Principal Contractor shall ensure that a health and safety file, which shall include all documentation required in terms of the provisions of this Specification, the Act and the Construction Regulations, is opened and kept on site and made available to the Client or Inspector upon request. Upon completion of the works, the Principal Contractor shall hand over a consolidated health and safety file to the Client.
- 6.2.9 The Principal Contractor shall, throughout execution of the contract, ensure that all conditions imposed on his Sub-contractors in terms of the Act and the Construction Regulations are complied with as if they were the Principal Contractor.
- 6.2.10 The Principal Contractor shall from time to time evaluate the relevance of the Health and Safety Plan and revise the same as required, following which revised plan shall be submitted to the Client and/or his/her Agent for approval.

7. SCOPE OF WORK

The Health and Safety Specifications pertaining to the project; ENTER DETAIL –cover the subjects contained in the index and is intended to outline the normal as well as any special requirements of the Cape Peninsula University of Technology pertaining to the health and safety matters (including the environment) applicable to the project in question. These Specifications should be read in conjunction with the Act, the Construction Regulations and all other Regulations and Safety Standards which were or will be promulgated under the Act or incorporated into the Act and be in force or come into force during the effective duration of the project. The stipulations in this specification, as well as those contained in all other documentation pertaining to the project, including contract documentation and technical specifications shall not be interpreted, in any way whatsoever, to countermand or nullify any stipulation of the Act, Regulations and Safety Standards which are promulgated under, or incorporated into the Act.

N.B Construction Regulation 7(c) (ii) determines that potential contractors submitting tenders have made provision for the cost of health and safety measures during the construction process. The Principal Contractor shall on tendering make provision for the cost of health and safety measures in terms of his/her documented Health and Safety Plan and measures based on these Health and Safety Specifications during the period of the project. The cost shall be duly quantified and clearly identified for such identifiable purpose.

THE HEALTH AND SAFETY PLAN IS THEREFORE TO BE INCLUDED WITH THE TENDER DOCUMENTS WHEN TENDERS ARE INVITED FOR THE PROJECT.

8. HEALTH AND SAFETY FILE

The Principal Contractor must, in terms of Construction Regulation 7(1)(b), keep a Health & Safety File on site at all times that must include all documentation required in terms of the Act and Regulations and must also include a list of all Contractors on site that are accountable to the Principal Contractor and the agreements between the parties and details of work being done. A more detailed list of documents and other legal requirements that must be kept in the Health and Safety File is attached as an addendum to this document.

IMPORTANT:

The Health and Safety File will remain the property of the Client and/or its Agent on its behalf throughout the period of the project and shall be consolidated and handed over to the Client and/or its Agent on its behalf at the time of completion of the project.

9. OHS GOALS AND OBJECTIVES AND ARRANGEMENTS FOR MONITORING AND REVIEWING OHS PERFORMANCE

The Principal Contractor is required to maintain an acceptable disabling incident frequency rate (DIFR) and report on this to the Client and/or its Agent on its behalf on a monthly basis.

10. IDENTIFICATION OF HAZARDS AND DEVELOPMENT OF RISK ASSESSMENTS, STANDARD WORKING PROCEDURES (SWP) AND METHOD STATEMENTS

The Principal Contractor is required to develop Risk Assessments, Standard Working Procedures (SWP) and Method Statements for each activity executed in the contract or project

The identification of hazards is over and above the hazards identification program and those hazards identified during the drafting of the Health and Safety Plan.

11. ARRANGEMENTS FOR MONITORING AND REVIEW

11.1 Monthly Audit by Client and/or its Agent on its behalf

The Client and/or its Agent on its behalf will be conducting Periodic Audits at times agreed with the Principal Contractor Audit to comply with Construction Regulation 5(1)(o) to ensure that the principal Contractor has implemented, is adhering to and is maintaining the agreed and approved OH&S Plan.

11.2 Other audits and inspections by client and/or its agent on its behalf.

The Client and/or its Agent on its behalf reserves the right to conduct any other ad hoc audits and inspections as it and/or its Agent on its behalf deem necessary.

A representative of the Principal Contractor and the relevant Health and Safety Representative(s) (SHE-Reps) must accompany the Client and/or its Agent on its behalf on all Audits and Inspections and may conduct their own audit/inspection at the same time. Each party will, however, take responsibility for the results of his/her own audit/inspection results. The Client and/or its Agent on its behalf may require to be handed a copy of the minutes of the previous Health and Safety Committee meeting reflecting possible recommendations made by that committee to the Employer for reference purposes.

11.3 Reports

11.3.1 The Principal Contractor shall report all incidents where an employee is injured on duty to the extent that he/she:

- a) dies
- b) becomes unconscious
- c) loses a limb or part of a limb
- d) is injured or becomes ill to such a degree that he/she is likely either to die or to suffer a permanent physical defect or likely to be unable for a period of at least 14 days either to work or continue with the activity for which he/she was usually employed

OR where:

- a) a major incident occurred
- b) the health or safety of any person was endangered
- c) where a dangerous substance was spilled
- d) the uncontrolled release of any substance under pressure took place
- e) machinery or any part of machinery fractured or failed resulting in flying, falling or uncontrolled moving objects
- f) machinery ran out of control,

to the Provincial Director of the Department of Labour within seven days and at the same time to the Client and/or its Agent on its behalf.

Refer in this regard to Section 24 of the Act & General Administrative Regulation 8.

11.3.2 The Principal Contractor is required to provide the Client and/or its Agent on its behalf with copies of all statutory reports required in terms of the Act and the Regulations.

11.3.3 The Principal Contractor is required to provide the Client and/or its Agent on its behalf with a monthly "SHE Risk Management Report".

11.3.4 The Principal Contractor is required to provide a.s.a.p. the Client and/or its Agent on its behalf with copies of all internal and external accident/incident investigation reports. As soon as the occurrence of any accident/incident of whatever nature comes to the notice of the Principal Contractor, it shall be reported immediately to any of the following:

11.4 Review

The Principal Contractor is to review the Hazard Identification, Risk Assessments and Standard Work Processes at each Production Planning and Progress Report meeting as the construction work develops and progresses and each time changes are made to the designs, plans and construction methods and processes.

The Principal Contractor must provide the Client and/or its Agent on its behalf, other Contractors and all other concerned parties with copies of any changes, alterations or amendments as contemplated in the above paragraph.

11.5 Site Rules and other Restrictions

11.5.1 Site OHS Rules

The Principal Contractor must develop a set of site-specific OH&S rules that will be applied to regulate the Health and Safety Plan and associated aspects of the construction.

When required for a site by law, visitors and non-employees upon entering the site shall be issued with the proper Personal Protective Equipment (PPE) as and when necessary.

11.5.2 Security Arrangements

The Principal Contractor must establish site access rules and implement and maintain these throughout the construction period. Access control must include the rule that non-employees shall at all times be provided with fulltime supervision while on site.

The Principal Contractor must develop a set of Security rules and procedures and maintain these throughout the construction period.

If not already tasked to the H&S Officer appointed in terms of Construction Regulation 8(8), the Principal Contractor must appoint a competent Emergency Controller who must develop contingency plans for any emergency that may arise on site as indicated by the risk assessments.

11.6 Training

The contents and syllabi of all training required by the Act and Regulations including any other related or relevant training as required must be included in the Principal Contractor's Health and Safety Plan and Health and Safety File.

11.6.1 General Induction Training

All employees of the Principal and other Contractors must be in possession of proof of General Induction training

11.6.2 Site Specific Induction Training

All employees of the Principal and other Contractors must be in possession of Site Specific Occupational Health and Safety Induction or other qualifying training.

11.6.3 Other Training

All operators, drivers and users of construction vehicles, mobile plant and other equipment must be in possession of valid proof of training.

All employees in jobs requiring training in terms of the Act and Regulations must be in possession of valid proof of training as follows:

Occupational Health and Safety Training Requirements: (as required by the Construction Regulations and as indicated by the Health and Safety Specification Document & the Risk Assessment/s and recommendations by the Health and Safety Committee):

- a) General Induction (Section 8 of the Act)
- b) Site/Job Specific Induction (also visitors) (Sections 8 & 9 of the Act)
- c) Site/Project Manager
- d) Construction Manager
- e) OH&S Representatives (Section 18 (3) of the Act)
- f) Operation of Cranes (Driven Machinery Regulations 18 (11))
- g) Operators & Drivers of Construction Vehicles & Mobile Plant (Construction Regulation 23)
- h) Basic Fire Prevention & Protection (Environmental Regulations 9 and Construction Regulation 29)
- i) As a minimum basic First Aid to be upgraded when necessary (General Safety Regulations 3)
- j) Storekeeping Methods & Safe Stacking (Construction Regulation 28)
- k) Emergency, Security and Fire Coordinator

11.7 Accident and Incident Investigation

The Principal Contractor is responsible to oversee the investigation of all accidents/incidents where employees and non-employees were injured to the extent that he/she/they had to receive first aid or be referred for medical treatment by a doctor, hospital or clinic. (General Administrative Regulation 9)

The results of the investigation to be entered into the Accident/Incident Register. (General Administrative Regulation 9)

The Principal Contractor is responsible for the investigation of all non-injury incidents as described in Section 24 (1) (b) & (c) of the Act and keeping a record of the results of such investigations including the steps taken to prevent similar incidents in future.

The Principal Contractor is responsible for the investigation of all road traffic accidents relating to the construction site and keeping a record of the results of such investigations including the steps taken to prevent similar accidents in future.

Notwithstanding the requirements of Section 24 of the Act, ALL incidents shall be investigated and reported on in writing, irrespective of whether such incident gave rise to injury or damage.

11.8 H&S Representatives (SHE-Reps – ‘safety, health & environment’) and H&S Committees

11.8.1 Designation of H&S Representatives('SHE – Reps')

Where the Principal Contractor employs more than 20 persons (including the employees of other Contractors (sub-contractors) he has to appoint one H&S Representatives for every 50 employees or part thereof. (Section 17 of the Act and General Administrative Regulation 6. & 7.)

H&S Representatives have to be designated in writing and the designation shall be in accordance with the Collective Agreement as concluded between the parties as is required in terms of General Administration Regulation 6.

11.8.2 Duties and Functions of the H&S Representatives

The Principal Contractor must ensure that the designated H&S Representatives conduct at least a weekly inspection of their respective areas of responsibility using a checklist and report thereon to the Principal Contractor, after which these reports shall be consolidated for submission to the Health and Safety Committee.

H&S Representatives must be included in and be part of accident/incident investigations.

H&S Representatives shall be members of at least one H&S Committee and must attend all meetings of that H&S committee.

11.8.3 Establishment of H&S Committee(s)

The Principal Contractor must establish H&S Committees consisting of designated H&S Representatives together with a number of Employers Representatives appointed as per Section 19(3) that are not allowed to exceed the number of H&S Representatives on the committee. The persons nominated by the employer on a H&S Committee must be designated in writing for such period as may be determined by him. The H&S Committee shall co-opt advisory (temporary) members and determine the procedures of the meetings including the chairmanship.

The H&S Committee must meet minimum monthly and consider, at least, the following Agenda for the first meeting. Thereafter the H&S Committee shall determine its own procedures as per the previous paragraph.

Agenda:

1. Opening and determining of chairmanship (only when necessary)
2. Minutes of Previous Minutes
3. Observations
4. Program and Safety considerations
5. Hygiene
6. Housekeeping improvement
7. Incidents & Accidents / Injuries
8. Registers:
 - 8.1 H&S Rep. Inspections
 - 8.2 Matters of First Aid

- 8.3 Scaffolding
- 8.4 Ladders
- 8.5 Excavations
- 8.6 Portable Electric Equipment
- 8.7 Fire Equipment
- 8.8 Explosive Power Tools
- 8.9 Power Hand tools
- 8.10 Incident Report Investigation
- 8.11 Pressure Vessels
- 8.12 Personal Protective Equipment
9. Safety performance Evaluations
10. Education & Safety promotion program
11. First Aid Officials and training in First Aid
12. Demarcation of work- /hazardous-/safe areas/walkways
13. Posters and signage
14. Environmental preservation and conservation
15. Specific training programs
16. General
17. Date of Next Meeting
18. Closing

12. PROJECT/SITE SPECIFIC REQUIREMENTS

The following is a list of specific activities and considerations that have been identified for the project and site and for which Risk Assessments, Standard Working Procedures (SWP), management and control measures and Method Statements (where necessary) have to be developed by the Principal Contractor:

- Clearing & Grubbing of the Area/Site
- Site Establishment including:
 - Office/s
 - Secure/Safe Storage and storage areas for materials, plant & equipment
 - Ablution facilities
 - Sheltered dining area
 - Vehicle access to the site
- Dealing with existing Structures.
- Location of existing Services
- Installation & Maintenance of Temporary Construction Electrical Supply, Lighting and Equipment
- Adjacent Land uses/Surrounding property exposures
- Boundary & Access control/Public Liability Exposures (Remember: the Employer is also responsible for the OH&S of non-employees affected by his/her work activities.)
- Health risks arising from neighboring as well as own activities and from the environment e.g. threats by dogs, bees, snakes, lightning, allergies etc.
- Exposure to Noise
- Exposure to Vibration
- Protection against dehydration and heat exhaustion
- Protection from wet & cold conditions
- Dealing with HIV/Aids and other diseases as per specific programme provided by the client and/or its Agent on its behalf
- Use of Portable Electrical Equipment including:
 - Angle grinder
 - Electrical Drilling machine
 - Skill saw
- Excavations including:
 - Ground/soil conditions
 - Trenching
 - Shoring
 - Drainage
 - Daily inspections
- Welding including:
 - Arc Welding
 - Gas welding
 - Flame Cutting
 - Use of LP Gas torches and appliances
- Loading & Offloading of Trucks
- Aggregate/Sand and other Materials Delivery
- Manual and Mechanical Handling
- Lifting and Lowering Operations
- Driving & Operation of Construction Vehicles and Mobile Plant including:
 - Trenching machine
 - Excavator

- Bomag Roller
- Plate Compactor
- Front End Loader
- Mobile Cranes and the ancillary lifting tackle
- Parking of Vehicles & Mobile Plant
- Towing of Vehicles & Mobile Plant
- Use and Storage of Flammable Liquids and other Hazardous Substances – the client and/or its Agent on its behalf to be informed of this prior to commencing of the project
- Layering and Bedding of trench floor
- Installation of Pipes in trenches
- Backfilling of Trenches
- Protection against Flooding
- Gabion work
- Use of Explosives - the client and/or its Agent on its behalf to be informed of this prior to commencing of the project
- Protection from Overhead Power Lines
- As discovered by the Principal Contractor's hazard identification exercise
- As discovered from any inspections and audits conducted by the Client and/or its Agent on its behalf or by the Principal Contractor or any other Contractor on site
- As discovered from any accident/incident investigation.

12.1 The following are in particular requirements depending on scope of works and will form a basis for compliance audits.

- 1) Administrative & Legal Requirements
- 2) Education, Training & Promotion
- 3) Public Safety & Emergency Preparedness
- 4) Personal Protective Equipment
- 5) Housekeeping
- 6) Scaffolding, Formwork & Support work
- 7) Ladders
- 8) Electrical Safeguarding
- 9) Emergency/Fire Prevention & Protection
- 10) Excavations & Demolition
- 11) Tools
- 12) Cranes
- 13) Personnel & Material Hoists
- 14) Transport & Materials Handling
- 15) Site Plant & Machinery
- 16) Plant & Storage Yards/Site Workshops Specifics
- 17) Health & Hygiene

13. OUTLINED DATA, REFERENCES AND INFORMATION ON CERTAIN AND/OR SPECIFIC OBLIGATORY REQUIREMENTS TO ENSURE COMPLIANCE

13.1 General Administration Requirements

OHS Act Section/ Regulation	Subject	Requirements
Construction. Regulation 4	Notice of carrying out Construction work	Department of Labour notified Copy of Notice available on Site
General Admin. Regulation 4	Copy of OH&S Act (Act 85 of 1993)	Updated copy of Act & Regulations on site. Readily available for perusal by employees.
COID Act Section 80	Registration with Compensation Commissioner	Written proof of registration/Letter of good standing available on Site
Construction. Regulation 5 & 7(1)	H&S Specification & Programme	H&S Spec received from Client and/or its Agent on its behalf OH&S programme developed & Updated regularly
Section 8(2)(d) Construction. Regulation	Hazard Identification & Risk Assessment	Hazard Identification carried out/Recorded Risk Assessment and – Plan drawn up/Updated RA Plan available on Site Employees/Sub-Contractors informed/trained
Section 16(2)	Assigned duties (Managers)	Responsibility of complying with the OH&S Act assigned to other person/s by CEO.
Construction. Regulation 8(1)	Designation of Person Responsible on Site	Competent person appointed in writing as Construction Supervisor with job description
Construction. Regulation 8(1)	Designation of Assistant for above	Competent person appointed in writing as Assistant Construction Manager with job description
Section 17 & 18 General Administrative Regulations 6 & 7	Designation of Health & Safety Representatives	More than 20 employees - one H&S Representative, one additional H&S Rep. for each 50 employees or part thereof. Designation in writing, period and area of responsibility specified in terms of GAR 6 & 7 Meaningful H&S Rep. reports. Reports actioned by Management.

Section 19 & 20 General Administrative Regulations 5	Health & Safety Committee/s	H&S Committee/s established. All H&S Reps shall be members of H&S Committees Additional members are appointed in writing. Meetings held monthly, Minutes kept. Actioned by Management.
Section 37(1) & (2)	Agreement with Mandatories’/ (Sub-)Contractors	Written agreement with (Sub-)Contractors List of (Sub-)Contractors displayed. Proof of Registration with Compensation Insurer/Letter of Good Standing Construction Supervisor designated Written arrangements re. H&S Reps & H&S Committee Written arrangements re. First Aid
Section 24 & General Admin. Regulation 8 COID Act Sect.38, 39 & 41	Reporting of Incidents (Dept. of Labour)	Incident Reporting Procedure displayed. All incidents in terms of Sect. 24 reported to the Provincial Director, Department of Labour, within 3 days. (Annexure 1?)(WCL 1 or 2) and to the Client and/or its Agent on its behalf Cases of Occupational Disease Reported Copies of Reports available on Site Record of First Aid injuries kept
General Admin. Regulation 9	Investigation and Recording of Incidents	All injuries which resulted in the person receiving medical treatment other than first aid, recorded and investigated by investigator designated in writing. Copies of Reports (Annexure 1) available on Site Tabled at H&S Committee meeting Action taken by Site Management.
Construction. Regulation 10	Fall Prevention & Protection	Competent person appointed to draw up and supervise the Fall Protection Plan Proof of appointees competence available on Site Risk Assessment carried out for work at heights Fall Protection Plan drawn up/updated Available on Site

Construction. Regulation 10(5)	Roof work	Competent person appointed to plan & supervise Roof work. Proof of appointees competence available on Site Risk Assessment carried out Roof work Plan drawn up/updated Roof work inspect before each shift. Inspection register kept Employees medically examined for physical & psychological fitness. Written proof on site
Construction. Regulation 11	Structures	Information re. the structure being erected received from the Designer including: - geo-science technical report where relevant - the design loading of the structure - the methods & sequence of construction - anticipated dangers/hazards/special measures to construct safely Risk Assessment carried out Method statement drawn up All above available on Site Structures inspected before each shift. Inspections register kept
Construction. Regulation 12	Temporary Works	Competent person appointed in writing to supervise erection, maintenance, use and dismantling of Temporary Works Design drawings available on site Risk Assessment carried out Temporary Works inspected: - before use/inspection - before pouring of concrete - weekly whilst in place - before stripping/dismantling. - Inspection register kept
Construction. Regulation 16	Scaffolding	Competent persons appointed in writing to: - erect scaffolding (Scaffold Erector/s)

		<ul style="list-style-type: none"> - act as Scaffold Team Leaders - inspect Scaffolding weekly and after inclement weather (Scaffold Inspector/s) <p>Written Proof of Competence of above appointees available on Site</p> <p>Copy of SABS 085 available on Site</p> <p>Risk Assessment carried out</p> <p>Inspected weekly/after bad weather. Inspection register/s kept</p>
Construction. Regulation 17	Suspended Platforms	<p>Competent persons appointed in writing to:</p> <ul style="list-style-type: none"> - control the erection of Suspended platforms - act as Suspended platforms Team Leaders - inspect Suspended Scaffolding weekly and after inclement weather <p>Risk Assessment conducted</p> <p>Certificate of Authorisation issued by a registered professional engineer available on Site/copy forwarded to the Department of Labour</p> <p>The following inspections of the whole installation carried out by a competent person</p> <ul style="list-style-type: none"> - after erection and before use - daily prior to use. Inspection register kept <p>The following tests to be conducted by a competent person:</p> <ul style="list-style-type: none"> - load test of whole installation and working parts every three months - hoisting ropes/hooks/load attaching devices quarterly. <p>Tests log book kept</p> <p>Employees working on Suspended Platform medically examined for physical & psychological fitness. Written proof available</p>
Construction. Regulation 13	Excavations	<p>Competent person/s appointed in writing to supervise and inspect excavation work</p>

		<p>Written Proof of Competence of above appointee/s available on Site</p> <p>Risk Assessment carried out</p> <p>Inspected:</p> <ul style="list-style-type: none"> - before every shift - after any blasting - after an unexpected fall of ground - after any substantial damage to the shoring - after rain. Inspections register kept <p>Method statement developed where explosives will be/ are used</p>
Construction. Regulation 14	Demolition Work	<p>Competent person/s appointed in writing to supervise and control Demolition work</p> <p>Written Proof of Competence of above appointee/s available on Site</p> <p>Risk Assessment carried out</p> <p>Engineering survey and Method Statement available on Site</p> <p>Inspections to prevent premature collapse carried out by competent person before each shift. Inspection register kept</p>
Construction. Regulation 19	Materials Hoist	<p>Competent person appointed in writing to inspect the Material Hoist</p> <p>Written Proof of Competence of above appointee available on Site.</p> <p>Materials Hoist to be inspected weekly by a competent person. Inspections register kept.</p>
Construction. Regulation 21	Explosive actuated fastening devices	<p>Competent person appointed to control the issue of the explosive actuated fastening devices and cartridges and the service, maintenance and cleaning. Register kept of above</p> <p>Empty cartridge cases/nails/fixing bolts returns recorded</p> <p>Cleaned daily after use Work areas are demarcated!</p>

<p>Construction. Regulation 20</p>	<p>Bulk Mixing Plants</p>	<p>Competent person appointed to control the operation of the Bulk Mixing Plant and the service, maintenance and cleaning. Register kept of above</p> <p>Risk Assessment carried out</p> <p>Bulk Mixing Plant to be inspected weekly by a competent person. Inspections register kept</p>
<p>Construction. Regulation 22/ Driven Machinery Regulations 18 & 19</p>	<p>Cranes & Lifting Machines Equipment</p>	<p>Competent person appointed in writing to inspect Cranes, Lifting Machines & Equipment</p> <p>Written Proof of Competence of above appointee available on Site.</p> <p>Cranes & Lifting tackle identified/numbered</p> <p>Register kept for Lifting Tackle</p> <p>Log Book kept for each individual Crane</p> <p>Inspection: - All cranes - daily by operator</p> <p>- Tower Crane/s - after erection/6monthly</p> <p>- Other cranes - annually by comp. person</p> <p>- Lifting tackle(slings/ropes/chain slings etc.) - daily or before every new application</p>
<p>Construction. Regulation 24/Electrical Machinery Regulations 9 & 10/ Electrical Installation Regulations</p>	<p>Inspection & Maintenance of Electrical Installation & Equipment (including portable electrical tools)</p>	<p>Competent person appointed in writing to inspect/test the installation and equipment.</p> <p>Written Proof of Competence of above appointee available on Site.</p> <p>Inspections:</p> <p>- Electrical Installation & equipment inspected after installation, after alterations and quarterly. Inspection Registers kept</p> <p>Portable electric tools, electric lights and extension leads must be uniquely identified/numbered.</p> <p>Weekly visual inspection by User/Issuer/Storeman. Register kept.</p>
<p>Construction. Regulation 28/ General Safety Regulation 8(1)(a)</p>	<p>Designation of Stacking & Storage Supervisor.</p>	<p>Competent Person/s with specific knowledge and experience designated to supervise all Stacking & Storage</p> <p>Written Proof of Competence of above appointee available on Site</p>

Construction. Regulation 29/ Environmental Regulation 9	Designation of a Person to Co-ordinate Emergency Planning And Fire Protection	Person/s with specific knowledge and experience designated to co-ordinate emergency contingency planning and execution and fire prevention measures Emergency Evacuation Plan developed: - Drilled/Practiced - Plan & Records of Drills/Practices available on Site Fire Risk Assessment carried out All Fire Extinguishing Equipment identified and on register . Inspected weekly. Inspection Register kept Serviced annually
General Safety Regulation 3	First Aid	Every workplace provided with sufficient number of First Aid boxes. (Required where 5 persons or more are employed) First Aid freely available Equipment as per the list in the OH&S Act. One qualified First Aider appointed for every 50 employees. (Required where more than 10 persons are employed) List of First Aid Officials and Certificates Name of person/s in charge of First Aid box/es displayed. Location of First Aid box/es clearly indicated. Signs instructing employees to report all Injuries/illness including first aid injuries
General Safety Regulation 2	Personal Safety Equipment (PSE)	PSE Risk Assessment carried out Items of PSE prescribed/use enforced Records of Issue kept Undertaking by Employee to use/wear PSE PSE remain property of Employer, not to be removed from premises GSR 2(4)
General Safety Regulation 9	Inspection & Use of Welding/Flame Cutting Equipment	Competent Person/s with specific knowledge and experience designated to Inspect Electric Arc, Gas Welding and Flame Cutting Equipment Written Proof of Competence of above appointee available on Site

		<p>All new vessels checked for leaks, leaking vessels NOT taken into stock but returned to supplier immediately</p> <p>Equipment identified/numbered and entered into a register</p> <p>Equipment inspected weekly. Inspection Register kept</p> <p>Separate, purpose made storage available for full and empty vessels</p>
<p>Hazardous Chemical Substances (HCS)</p> <p>Regulations</p> <p>Construction Regulation 25</p>	<p>Control of Storage & Usage of HCS and Flammables</p>	<p>Competent Person/s with specific knowledge and experience designated to Control the Storage & Usage of HCS (including Flammables)</p> <p>Written Proof of Competence of above appointee available on Site</p> <p>Risk Assessment carried out</p> <p>Register of HCS kept/used on Site</p> <p>Separate, purpose made storage available for full and empty containers</p>
<p>Vessels under Pressure Regulations</p>	<p>Vessels under Pressure (VUP)</p>	<p>Competent Person/s with specific knowledge and experience designated to supervise the use, storage, maintenance, statutory inspections & testing of VUP's</p> <p>Written Proof of Competence of above appointee available on Site</p> <p>Risk Assessment carried out</p> <p>Certificates of Manufacture available on Site</p> <p>Register of VUP's on Site</p> <p>Inspections & Testing by Approved Inspection Authority (AIA):</p> <ul style="list-style-type: none"> - after installation/re-erection or repairs - every 36 months. - Register/Log kept of inspections, tests. Modifications & repair
<p>Construction. Regulation 23</p>	<p>Construction Vehicles & Earth Moving Equipment</p>	<p>Operators/Drivers appointed to:</p> <ul style="list-style-type: none"> - Carry out a daily inspection prior to use - Drive the vehicle/plant that he/she is competent to operate/drive <p>Written Proof of Competence of above appointee available on Site. Record of Daily inspections kept</p>

General Safety Regulation 13A	Inspection of Ladders	Competent person appointed in writing to inspect Ladders Ladders inspected at arrival on site and weekly thereafter. Inspections register kept Application of the types of ladders (wooden, aluminium etc.) regulated by training and inspections and noted in register
General Safety regulation 13B	Ramps	Competent person appointed in writing to Supervise the erection & inspection of Ramps. Inspection register kept. Daily inspected and noted in register

16.2 Education & Training

Subject	Requirement
Company OH&S Policy Section 7(1)	Policy signed by CEO and published/Circulated to Employees Policy displayed on Employee Notice Boards Management and employees committed.
Company/Site OH&S Rules (Section 13(a))	Rules published Rules displayed on Employee Notice Boards Rules issued and employees effectively informed or trained: written proof Follow-up to ensure employees understand/adhere to the policy and rules.
Induction & Task Safety Training (Section 13(a))	All new employees receive OH&S Induction Training. Training includes Task Safety Instructions. Employees acknowledge receipt of training. Follow-up to ensure employees understand/adhere to instructions.
General OH&S Training (Section 13(a))	All current employees receive specified OH&S training: written proof Operators of Plant & Equipment receive specified training Follow-up to ensure employees understand/adhere to instructions.
Occupational Health & Safety Promotion	<u>Incident Experience Board indicating e.g.</u> * No. of hours worked without an Injury * No. of days worked without an Injury Mission, Vision and Goal Safety Posters displayed & changed regularly Employee Notice Board for OH&S Notices.

	<p>Site OH&S Competition.</p> <p>Suggestion scheme.</p>
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16.3 Public Safety, Security Measures & Emergency Preparedness

Subject	Requirement
Notices & Signs	<p>Notices & Signs at entrances / along perimeters indicating “No Unauthorised Entry”.</p> <p>Notices & Signs at entrance instructing visitors and non - employees what to do, where to go and where to report on entering the site/yard with directional signs. e.g. “Visitors to report to Office”</p> <p>Notices & Signs posted to warn of overhead work and other hazardous activities. e.g. General Warning Signs</p>
Site Safeguarding	Nets, Canopies, Platforms, Fans etc. to protect members of the public passing / entering the site.
Security Measures	<p>Access control measures/register in operation</p> <p>Security patrols after hours during weekends and holidays</p> <p>Sufficient lighting after dark</p> <p>Guard has access to telephone/ mobile/other means of emergency communication</p>
Emergency Preparedness	<p>Emergency contact numbers displayed and made available to Security & Guard</p> <p>Emergency Evacuation instructions posted up on all notice boards (including employees' notice boards)</p> <p>Emergency contingency plan available on site/in yard</p> <p>Doors open outwards/unobstructed</p> <p>Emergency alarm audible all over (including in toilets)</p>
Emergency Drill & Evacuation	<p>Adequate No. of employees trained to use Fire Fighting Equipment.</p> <p>Emergency Evacuation Plan available, displayed and practiced.</p> <p>(See Section 1 for Designation & Register)</p>

16.4 Personal Protective Equipment

Subject	Requirement
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PPE needs analysis	Need for PPE identified and prescribed in writing. PPE remain property of Employer, not to be removed from premises GSR 2(4)
Head Protection	All persons on site wearing Safety Helmets including Sub-contractors and Visitors (where prescribed)
*Foot Protection	All employees on site wearing Safety Footwear including Gumboots for concrete / wet work and non-slip shoes for roof work. Visitors to wear same upon request or where prescribed
Eye and Face Protection	<u>Eye and Face (also Hand and Body) Protection</u> (Goggles, Face Shields, Welding Helmets etc.) used when operating the following: * Jack/ Kango Hammers * Angle / Bench Grinders * Electric Drills (Overhead work into concrete / cement / bricks * Explosive Powered tools * Concrete Vibrators / Pokers * Hammers & Chisels * Cutting / Welding Torches * Cutting Tools and Equipment * Guillotines and Benders * Shears * Sanders and Sanding Machines * CO2 and Arc Welding Equipment * Skill / Bench Saws * Spray Painting Equipment etc.
Hearing Protection	<u>Hearing Protectors</u> (Muffs, Plugs etc.) used when operating the following: * Jack / Kango Hammers * Explosive Powered Tools * Wood/Aluminium Working Machines e.g. saws, planers, routers
Hand Protection	<u>Protective Gloves</u> worn by employees handling / using: * Cement / Bricks / Steel / Chemicals * Welding Equipment * Hammers & Chisels

	* Jack / Kango Hammers etc.
Respiratory Protection	Suitable/efficient prescribed <u>Respirators</u> worn correctly by employees handling / using: <ul style="list-style-type: none"> * Dry cement * Dusty areas * Hazardous chemicals * Angle Grinders * Spray Painting etc.
Fall Prevention Equipment	Suitable <u>Safety Belts</u> / Fall Arrest Equipment correctly used by persons working on / in unguarded, elevated positions e.g.: <ul style="list-style-type: none"> * Scaffolding * Riggers * Lift shafts * Edge work * Ring beam edges etc. <p>Other methods of fall prevention applied e.g. catch nets</p>
Protective Clothing	All jobs requiring protective clothing (Overalls, Rain Wear, Welding Aprons etc.) Identified and clothing worn.
PPE Issue & Control	Identified Equipment issued free of charge. All PPE maintained in good condition. (Regular checks). Workers instructed in the proper use & maintenance of PPE. Commitment obtained from wearer accepting conditions and to wear the PPE. Record of PPE issued kept on H&S File. PPE remain property of Employer, not to be removed from premises GSR 2(4)

16.5 Housekeeping

Subject	Requirement
Scrap Removal System	<p>All items of Scrap/Unusable Off-cuts/Rubble and redundant material removed from working areas on a regular basis. (Daily)</p> <p>Scrap/Waste removal from heights by chute/hoist/crane.</p> <p>Nothing thrown/swept over sides.</p> <p>Scrap disposed of in designated containers/areas</p> <p>Removal from site/yard on a regular basis.</p>
Stacking & Storage	<p><u>Stacking:</u></p> <ul style="list-style-type: none"> * Stable, on firm level surface/base. * Prevent leaning/collapsing * Irregular shapes bonded * Not exceeding 3x the base * Stacks accessible * Removal from top only. <p><u>Storage:</u></p> <ul style="list-style-type: none"> * Adequate storage areas provided. * Functional – e.g. demarcated storage areas/racks/bins etc. * Special areas identified and demarcated e.g. flammable gas, cement etc. * Neat, safe, stable and square. * Store/storage areas clear of superfluous material. * Storage behind sheds etc. neat/under control. * Storage areas free from weeds, litter etc.
Waste Control/Reclamation	<p>Re-usable off-cuts and other re-usable material removed daily and kept to a minimum in the work areas.</p> <p>All re-usable materials neatly stacked/stored in designated areas. (Nails removed/bent over in re-usable timber).</p> <p>Issue of hardware/nails/screws/cartridges etc. controlled and return of unused items monitored.</p>
Sub-contractors (Housekeeping)	Sub-contractors required to comply with Housekeeping requirements.

16.6 Working at Heights (including roof work)

Subject	Requirement
Openings	Unprotected openings adequately guarded/fenced/barricaded/catch nets installed
	<p>Roof work discontinued when bad/hazardous weather</p> <p>Fall protection measures (including warning notices) when working close to edges or on fragile roofing material</p> <p>Covers over openings in roof of robust construction/secured against displacement</p>

16.7 Scaffolding / Formwork / Support Work

Subject	Requirement
Access/System Scaffolding	<p>Foundation firm / stable</p> <p>Sufficient bracing.</p> <p>Tied to Structure/prevented from side or cross movement</p> <p>Platform boards in good condition/sufficient/secured.</p> <p>Handrails and toe boards provided.</p> <p>Access ladders / stairs provided.</p> <p>Area/s under scaffolding tidy.</p> <p>Safe/unsafe for use signs</p> <p>Complying with OH&S Act/SABS 085</p>
Free Standing Scaffolding	<p>Foundation firm / stable</p> <p>Sufficient bracing.</p> <p>Platform boards in good condition/sufficient/secured.</p> <p>Handrails and toe boards provided.</p> <p>Access ladders / stairs provided.</p> <p>Area/s under scaffolding tidy.</p> <p>Safe/unsafe for use signs</p> <p>Height to base ratio correct</p> <p>Outriggers used /tied to structure where necessary</p>

	Complying with OH&S Act/SABS 085
Mobile Scaffolding	<p>Foundation firm / stable</p> <p>Sufficient bracing.</p> <p>Platform boards in good condition/sufficient/secured.</p> <p>Handrails and toe boards provided.</p> <p>Access ladders / stairs provided.</p> <p>Area/s under scaffolding tidy.</p> <p>Safe/unsafe for use signs</p>
Mobile Scaffolding	<p>Wheels / swivels in good condition</p> <p>Brakes working and applied.</p> <p>Height to base ratio correct.</p> <p>Outriggers used where necessary</p> <p>Complying with OH&S Act/SABS 085</p>
Suspended Scaffolding	<p>Outriggers securely supported and anchored.</p> <p>Correct No. of steel wire ropes used.</p> <p>Platform as close as possible to the structure.</p> <p>Handrails on all sides</p> <p>All winches / ropes / cables / brakes inspected regularly and replaced as prescribed</p> <p>Scaffolding complies with OHS Act (Act 85/93)</p> <p>Winch(es) maintained by competent person(s)</p>
Temporary Work	<p>All components in good condition.</p> <p>Foundation firm / stable.</p> <p>Adequate bracing / stability ensured.</p> <p>Good workmanship / uprights straight and plumb.</p> <p>Good cantilever construction.</p> <p>Safe access provided.</p> <p>Areas under support work tidy.</p> <p>Same standards as for system scaffolding.</p>
Special Scaffolding	Special Scaffolding e.g. Cantilever, Jib and Truss-out scaffolds erected to an acceptable standard and inspected by specialists.
Edges & Openings	Edges barricaded to acceptable standards.

	<p>Manhole openings covered / barricaded.</p> <p>Openings in floor / other openings covered, barricaded/fenced.</p> <p>Stairs provided with handrails.</p> <p>Lift shafts barricaded / fenced off.</p>
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16.8 Ladders

Subject	Requirement
Physical Condition / Use & Storage	<p>Stepladders - hinges/stays/braces/stiles in order.</p> <p>Extension ladders - ropes/rungs/stiles/safety latch/hook in order.</p> <p>Extension / Straight ladders secured or tied at the bottom / top.</p> <p>No joined ladders used</p> <p>Wooden ladders are never painted except with varnish</p> <p>Aluminium ladders NOT to be used with electrical work</p> <p>All ladders stored on hooks / racks and not on ground.</p> <p>Ladders protrude 900 mm above landings / platforms / roof.</p> <p>Fixed ladders higher than 5 m have cages/Fall arrest system</p>

16.9 Electricity (as part of, or additional to the manual "Safety & Switching Procedures for Electrical Installations"- see attached document)

Subject	Requirement
Electrical Distribution Boards & Earth Leakage	<p>Colour coded / numbered / symbolic sign displayed.</p> <p>Area in front kept clear and unobstructed.</p> <p>Fitted with inside cover plate / openings blanked off / no exposed "live" conductors / terminals/Door kept close</p> <p>Switches / circuit breakers identified.</p> <p>Earth leakage protection unit fitted and operating.</p> <p>Tested with instrument: Test results within 15 – 30 milliamps</p>

	<p>Aperture/Opening/s provided for the plugging in and removal of extension leads without the need to open the door</p> <p>Apertures and openings used for extension leads to be protected against the elements and especially rain</p>
Electrical Installations & Wiring	<p>Temporary wiring / extension leads in good condition / no bare or exposed wires.</p> <p>Earthing continuity / polarity correct:</p> <p>Looking at the open connectors to connect the wiring, the word “Brown” has the letter ‘R’ in it, so the <u>b’R’own</u> wire connects to the ‘<u>R</u>ight hand connector. “Blue” has the letter ‘L’ in it, so the <u>b’L’ue</u> wire connects to the ‘<u>L</u>eft hand connector.</p> <p>Cables protected from mechanical damage and moisture.</p> <p>Correct loading observed e.g. no heating appliance used from lighting circuit etc.</p> <p>Light fittings/lamps protected from mechanical damage/moisture.</p> <p>Cable arrestors in place and used inside plugs</p>
Physical condition of Electrical Appliances & Tools	<p><u>Electrical Equipment and Tools:</u> (includes all items plugging in to a 16 Amp supply socket)</p> <p>Insulation / casing in good condition.</p> <p>Earth wire connected/intact where not of double insulated design</p> <p>Double insulation mark indicates that no earth wire is to be connected.</p> <p>Cord in good condition/no bare wires/secured to machine & plug.</p> <p>Plug in good condition, connected correctly and correct polarity.</p>

16.10 Emergency and Fire Prevention and Protection

Subject	Requirement
Fire Extinguishing Equipment	<p>Fire Risks Identified and on record</p> <p><u>The correct and adequate Fire Extinguishing Equipment available for:</u></p> <ul style="list-style-type: none"> * Offices * General Stores * Flammable Store * Fuel Storage Tank/s and catchment well

	<ul style="list-style-type: none"> * Gas Welding / Cutting operations * Where flammable substances are being used / applied. * Equipment Easily Accessible
Maintenance	Fire equipment checked minimum monthly, serviced yearly
Location & Signs	<p><u>Fire Extinguishing Equipment:</u></p> <ul style="list-style-type: none"> * Clearly visible * Unobstructed * Signs posted including “No Smoking” / “No Naked Lights” where required. (Flammable store, Gas store, Fuel tanks etc.)
*Storage Issue & Control of Flammables (incl. Gas cylinders)	<p>Storage Area provided for flammables with suitable doors, ventilation, bund etc.</p> <p>Flammable store neat / tidy and no Class A combustibles. Decanting of flammable substances carried out in ignition free and adequately ventilated area. Container bonding principles applied</p> <p>Only sufficient quantities issued for one task or one day’s usage</p> <p>Separate, special gas cylinder store/storage area.</p> <p>Gas Cylinders stored / used / transported upright and secured in trolley/cradle/structure and ventilated.</p> <p>Types of Gas Cylinders clearly identified as well as the storage area and stored separately.</p> <p>Full cylinders stored separately from empty cylinders.</p> <p>All valves, gauges, connections, threads of all vessels to be checked regularly for leaks.</p> <p>Leaking acetylene vessels to be returned to the supplier IMMEDIATELY.</p>
Storage, Issue & Control of Hazardous Chemical Substances (HCS)	<p>HCS storage principles applied: products segregated</p> <p>Only approved, non-expired HCS to be used</p> <p>Only the prescribed PPE shall be used as the minimum protection</p> <p>Provision made for leakage/spillage containment and ventilation</p> <p>Emergency showers/eye wash facilities provided</p> <p>HCS under lock & key controlled by designated person</p> <p>Decanted/issued in containers as prescribed with information/warning labels</p> <p>Disposal of unwanted HCS by accredited disposal agent</p> <p>No dumping or disposal of any HCS on or inside the storage area or anywhere else on the project site</p>

	All vessels or containers to be regularly checked for leaks
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16.11 Excavations

Subject	Requirement
Excavations deeper than 1.5 m.	<p>Shored / Braced to prevent caving / falling in.</p> <p>Provided with an access ladder.</p> <p>Excavations guarded/barricaded/lighted after dark in public areas</p> <p>Soil dumped at least 1 m away from edge of excavation</p> <p>On sloping ground soil dumped on lower side of excavation</p> <p>All excavations are subject to daily inspections</p>

16.12 Tools

Subject	Requirement
Hand Tools	<p><u>Shovels / Spades / Picks:</u></p> <ul style="list-style-type: none"> * Handles free from cracks and splinters * Handles fit securely * Working end sharp and true <p><u>Hammers:</u></p> <ul style="list-style-type: none"> * Good quality handles, no pipe or reinforcing steel handles. * Handles free from cracks and splinters <p>Handles fit securely</p> <p><u>Chisels:</u></p> <ul style="list-style-type: none"> * No mushroomed heads / heads chamfered * Not hardened * Cutting edge sharp and square <p><u>Saws:</u></p> <ul style="list-style-type: none"> * Teeth sharp and set correctly * Correct saw used for the job
Explosive actuated fastening devices.	<p>Only used by trained / authorised personnel.</p> <p>Prescribed warning signs placed / displayed where tool is in use.</p>

	<p>Work area must be properly isolated/demarcated during use of tool.</p> <p>Inspected at least monthly by competent person and results recorded.</p> <p>Issue and return recorded including cartridges / nails and unused cartridges / nails / empty shells recorded.</p> <p>Cleaned daily after use.</p>
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16.13 Cranes

Subject	Requirement
Tower Crane	<p>Only operated by trained authorised operator with valid certificate of training</p> <p>Structure - no visible defects</p> <p>Electrical installation good/safe</p> <p>Crane hook: Throat pop marked/safety latch fitted/functional</p> <p>SWL/MML displayed</p> <p>Limit switches with backup switches fitted/operational</p> <p>Access Ladder fitted with backrests/Fall arrest system installed</p> <p>Lifting tackle in good condition/inspection colour coding</p> <p>Lifting tackle checked daily</p>
Mobile Crane	<p>Only operated by trained authorised operator with valid certificate of training</p> <p>Rear view mirrors</p> <p>Windscreen visibility good</p> <p>Windscreen wipers operating effectively</p> <p>Indicators operational</p> <p>Hooter working</p> <p>Tyres safe/sufficient tread/pressure visibly sufficient</p> <p>No missing Wheel nuts</p> <p>Headlights, taillights operational</p> <p>Reverse alarm working and audible and known by all employees</p>

<p>Mobile Crane continued</p>	<p>Grease nipples and grease on all joints</p> <p>No Oil leaks</p> <p>Hydraulic pipes visibly sound/no leaks</p> <p>No corrosion on Battery terminals</p> <p>Boom visibly in good condition/no apparent damage</p> <p>Cable/sheaves greased/no visible damage/split wires/corrosion and checked daily</p> <p>Brakes working properly</p> <p>Crane hook: Throat pop marked/safety latch fitted/functional</p> <p>SWL/MML displayed</p> <p>By-pass valves operational</p> <p>Deflection chart displayed/visible to operator/driver</p> <p>Outriggers functional used</p>
<p>Gantry Crane</p>	<p>Only operated by trained authorised persons</p> <p>Correct slinging techniques used</p> <p>Recognised/displayed on chart signals used</p> <p>Log book kept/up to date</p> <p>Prescribed inspections conducted on crane & lifting tackle and checked daily</p> <p>“Crane overhead” signage, where applicable</p> <p>Crane hook: Throat pop marked/safety latch fitted/functional</p> <p>SWL/MML displayed/load limiting switches fitted/operational</p>

16.14 Builder’s Hoist

Subject	Requirement
<p>Builder’s Hoist</p>	<p>“Hoist In Operation” - sign displayed.</p> <p>General construction strong and free from patent defects.</p> <p><u>Tower:</u> * Adequately secured / braced.</p> <p>* At least 900 mm available for over travel.</p> <p>* Barricaded at least 2 100 mm high at ground level and floors.</p> <p>* Landing place provided with gate at least 1 800 high.</p> <p><u>Platform:</u> * No persons conveyed on platform</p>

	<ul style="list-style-type: none"> * Steel wire ropes with breaking strength of six times max. load. * Signal systems used which may include two way radio connection. * Goods prevented from moving / falling off. * Effective brake capable of stopping and holding max. load.
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16.15 Transport & Materials Handling Equipment

Subject	Requirement
Site Vehicles	<p>All Site Vehicles, Dumpers, Bobcats, Loaders etc. checked daily before use by driver / operator.</p> <p>Inventory of vehicles used/operated on site</p> <p>Inspection by means of a checklist / results recorded.</p> <p>No persons riding on equipment not designed or designated for passengers.</p> <p>Site speed limit posted, enforced and not exceeded.</p> <p>Drivers / Operators trained / licensed and carrying proof.</p> <p>No unauthorised persons allowed to drive / operate equipment.</p>
Conveyors	<p>Conveyor belt nip points and drive gear guarded.</p> <p>Emergency stop/lever/brake fitted, clearly marked & accessible and tested to be functional under full load.</p>

16.16 Site Plant and Machinery

Subject	Requirement
Brick Cutting Machine	<p>Operator Trained.</p> <p>Only authorised persons use the machine.</p> <p>Emergency stop switch clearly marked and accessible.</p> <p>Area around the machine dry and slip/trip free/clear of off-cuts</p> <p>All moving drive parts guarded/electrical supply cable protected</p> <p>Operator using correct PPE - eye/face/hearing/foot/hands/body.</p>

Electric Arc Welder	<p>Welder Trained.</p> <p>Only authorised / trained persons use welder.</p> <p>Earth cable adequately earthed to work.</p> <p>Electrode holder in good condition/safe</p> <p>Cables, clamps & lugs/connectors in good condition.</p> <p>Area in which welding machine is used is dry/protected from wet.</p> <p>Welder using correct PPE - eye/ face/foot/body/respirator.</p> <p>Correct transparent screens & warning signs placed</p>
Woodworking Machines	<p>Operators Trained.</p> <p>Only authorised persons use machines.</p> <p>Provided with guards.</p> <p>Guards used.</p> <p>Operators using correct PPE - eye/face/feet/hearing</p> <p>Circular saws strictly operated according to prescribed methods and settings</p> <p>Only prescribed saw blades (cross-cut, ripping blade, smooth cut, aluminium) shall be used for various applications</p>
Compressors	<p>Relief valves correctly set and locked / sealed.</p> <p>Maximum Safe Working Pressure (MSWP) indicated on face of pressure gauge: not on glass cover.</p> <p>All drives adequately guarded.</p> <p>Receiver/lines drained daily</p> <p>Hoses good condition/clamped, not wired</p> <p>Compressed air NEITHER used to dust off clothing/PPE/ and work areas NOR on bare skin</p>
Concrete Mixer / Batch Plant	<p>Top platform provided with guardrails.</p> <p>Dust abatement methods in use.</p> <p>Operators using correct PPE - eye / hands / respirators.</p> <p>All moving drive parts guarded.</p> <p>Emergency stops identified / indicated and accessible.</p> <p>Area kept clean/dry/and free from tripping and slipping hazards.</p> <p>Operators overseer identified and crane signals displayed and used.</p>

<p>Gas Welding / Flame</p> <p>Cutting Equipment</p>	<p>Only authorised/trained persons use the equipment.</p> <p>Torches and gauges in good condition.</p> <p>Flashback arrestors fitted at cylinders and gauges.</p> <p>Hoses in good condition/correct type/all connections with clamps</p> <p>Cylinders stored, used and transported in upright position, secured in trolley / cradle / to structure.</p> <p>All cylinders regularly checked for leaks, leaking cylinders returned immediately</p> <p>Fire prevention/control methods applied/hot work permits</p>
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16.17 Plant & Storage Yards/Site Workshops Specifics

Subject	Requirements
<p>Section 8(2)(1)</p> <p>General Machinery</p> <p>Regulation 2(1):</p> <p>Supervision of the Use & Maintenance of Machinery</p>	<p>Person/s with specific knowledge and experience designated in writing to Supervise the Use & Maintenance of Machinery</p> <p>Critical items of Machinery identified/numbered/placed on register/inventory</p> <p>Inspection/maintenance schedules for abovementioned</p> <p>Inspections/maintenance carried out to above schedules</p> <p>Results recorded</p>
<p>General Machinery</p> <p>Regulation 9(2): Notices re. Operation of Machinery</p>	<p>Schedule D Notice posted in Work areas</p>
<p>Vessels under Pressure</p> <p>Regulation 13(1)(b):</p> <p>Supervision of the Use & Maintenance of Vessels under Pressure (VuP)</p>	<p>Person/s with specific knowledge and experience designated in writing to Supervise the Use & Maintenance of VuP's</p> <p>VuP's identified/numbered/placed on register/Manufacturers plate intact</p> <p>Inspection/maintenance schedules for abovementioned</p> <p>Inspections/maintenance carried out to above schedules</p> <p>Results recorded/Test certificates available</p>
<p>Lock-out Procedure</p>	<p>Lock-out procedure in operation</p>
<p>Ergonomics</p>	<p>Ergonomics survey conducted – results on record</p> <p>Survey results applied</p>
<p>Demarcation & Colour Coding</p>	<p>Demarcation principles applied</p> <p>All services, pipes, electrical installation, stop-start controls, emergency controls etc. colour coded to own published or SABS standard</p>

	Employees trained to identify colour coding
Portable & Bench Grinders	<p>Area around grinder clear/trip/slip free</p> <p>Bench grinders mounted securely/grinder generally in good condition/No excessive vibration</p> <p>On/Off switch/button clearly demarcated/accessible</p> <p>Adequate guards in place</p> <p>Tool rest – secure/square/max. 2 mm gap, perpendicular to drive shaft</p> <p>Stone/disk - correct type and size/mounted correctly/dressed</p> <p>Use of Eye protection enforced</p>
Battery Storage & Charging	<p>Adequately ventilated, ignition free room/area/no smoking sign/s</p> <p>Batteries placed on rubber/wooden surface</p> <p>Emergency shower/eye wash provided</p> <p>No acid storage in area</p> <p>Prescribed methods in place and adhered to when charging batteries</p>
Ancillary Lifting Equipment	<p>Chain Blocks/Tirfors/jacks/mobile gantries etc. identified/ numbered on register</p> <p>Chains in good condition/links no excessive wear/checked daily</p> <p>Lifting hooks – throat pop marked/safety latch fitted</p> <p>SWL/MML marked/displayed</p>
Presses/Guillotines/ Shears	<p>Only operated by trained/authorised persons</p> <p>Interlocks/lock-outs fitted/PPE worn or used at all times</p>

16.18 Workplace Environment, Health and Hygiene

Subject	Requirement
Lighting	<p>Adequate lighting in places where work is being executed e.g. stairwells and basements.</p> <p>Light fittings placed / installed causing no irritating/blinding glare.</p> <p>Stroboscopic effect eliminated (not only reduced) where moving objects or machinery is used</p>
Ventilation	<p>Adequate ventilation / extraction / exhausting in hazardous areas e.g. chemicals / adhesives / welding / petrol or diesel/ motors running and in confined spaces / basements.</p>
Noise	<p>Tasks identified where noise levels exceeds 85 dB at any one time.</p>

	<p>All reasonable steps taken to reduce noise levels at the source.</p> <p>Hearing protection used where noise levels could not be reduced to below 85 dB.</p>
Heat Stress	<p>Measures in place to prevent heat exhaustion in heat stress problem areas e.g. steel decks, when the WBGT index reaches 30. (See Environmental Regulation 4)</p> <p>Cold drinking water readily available at all times.</p>
Ablutions	<p>Sufficient hygiene facilities provided - 1 toilet per 30 employees (National Building Regulations prescribe chemical toilets for Construction sites)</p> <p>Toilet paper available.</p> <p>Sufficient showers provided.</p> <p>Facilities for washing hands provided</p> <p>Soap/cleaning agent available for washing hands</p> <p>Means of drying hands available</p> <p>Lock-up changing facilities / area provided.</p> <p>Ablution facilities kept hygienic and clean.</p>
Eating / Cooking Facilities	<p>Adequate storage facilities provided.</p> <p>Weather protected eating area provided, separate from changing area</p> <p>Refuse bins with lids provided.</p> <p>Facilities kept clean and hygienic.</p>
Pollution of Environment	<p>Measures in place to minimize dust generation.</p> <p>Accumulation or littering of empty cement pockets, plastic wrapping / bags, packing materials etc. prevented.</p> <p>Spillage / discarding of oil, chemicals and diesel into storm water and other drains or into existing or newly dug holes/cavities on site expressly prohibited.</p>
Hazardous Chemical Substances	<p>All substances identified and list available e.g. acids, flammables, poisons etc.</p> <p>Material Safety Data Sheets (MSDS) indicating hazardous properties and emergency procedures in case of incident on file and readily available.</p> <p>Substances stored safely.</p> <p>Expiry dates meticulously checked where applicable</p>

17. GENERAL NOTES TO THE PRINCIPAL CONTRACTOR

15.1 Legal Framework

Part of legal obligations

- i. The more important Acts and relevant subordinate/secondary legislation as well as other (inter alia Local Government) legislation that also apply to the State as well as to State owned buildings and premises: -
- ii. The latest issue of SABS 0142: "Code of Practice for the Wiring of Premises"
- iii. The Local Government Ordinance 1939 (Ordinance 17 of 1939) as amended and the municipal by-laws and any special requirements of the local supply authority
- iv. The Fire Brigade Services Act 1987, Act 99 of 1987 as amended
- v. The National Building Regulations and Building Standards Act 1977 (Act 103 of 1977) as amended and relevant proclaimed Regulations (SABS 0400)
- vi. The Post Office Act 1958 (Act 44 of 1958) as amended
- vii. The Electricity Act 1984, Act 41 of 1984
- viii. The Regulations of Local Gas Board(s), including Publications of the SABS Standards and Codes of Practice, with specific reference to GNR 17468 dated 4th October 1997
- ix. Legislation pertaining to water usage and the environment
- x. Legislation governing the use of equipment, which may emit radiation (e.g. X-Rays etc.)
- xi. Common Law

15.2 Legal Liabilities

Common Law and Legislation

Based on two main criteria –

- Would the reasonable person have foreseen the hazard?
That is a reasonable person in that specific position, taking experience, qualifications, authority, position in the organization etc. into consideration
- Would the reasonable person have taken precautionary measures (action) to prevent or limit the hazard?

Negligence can be proven on failure on **any** or **both** of the above criteria

(There may not necessarily be a relationship between criminal and civil liability!)

18. GENERAL

The project under control of the Principal Contractor shall be subject to periodic health and safety audits that will be conducted by the client at intervals agreed upon between the Principal Contractor and the client, provided such intervals will not exceed periods of one month. The Principal Contractor is to ensure that he/she and all persons under his control on the construction site shall adhere to the above specifications, as non-conformance will lead to the client taking action as directed by Construction Regulation 5(1)(q). The Principal Contractor should note that he/she shall be held liable

for any anomalies including costs and resulting deficiencies due to delays caused by non-conformance and/or non-compliance to the above Health and Safety Specifications and the Health and Safety Plan based on these specifications.

19. IMPORTANT LISTS AND RECORDS TO BE KEPT

The following are lists of several records that are to be kept in terms of the Construction Regulations. The lists are:

1. List of appointments
2. List of record keeping responsibilities
3. Inspection checklist

These lists and documents are to be used as a point of reference to determine which components of the Act would be applicable to a particular site or task or project, as was intended under paragraph 1 (“Preamble”) above.

17.1 List of appointments (Listed under number 3)

17.2 List of record keeping Responsibilities

<i>ITEM</i>	<i>CR</i>	<i>RECORD TO BE KEPT</i>	RESPONSIBLE PERSON
1.	4	Notification to Provincial Director – Annexure A Available on site	Principal Contractor
2.	5(1)(m)	Copy of Principal Contractor’s Health & Safety Plan Available on request	Client
3.	7(1)(d)	Copy of Principal Contractor’s Health & Safety Plan As well as each Contractor’s Health & Safety Plan Available on request	Principal Contractor
4.	7(2)(b)	Health and Safety File opened and kept on site (including all documentation required i.t.o. OHS & Regulations Available on request	Every Contractor
5.	7(1)(e)	Consolidated Health and Safety File handed to Client on completion of Construction work. To include all documentation required i.t.o. OHS & Regulations and records of all drawings, designs, materials used and similar information on the structure	Principal Contractor
6.	7(1)(f)	Comprehensive and Updated List of all Contractors on site, the agreements between the parties and the work being done Included in Health and Safety file and available on request	Principal Contractor
7.	9(6)	Risk Assessment - Available on site for inspection	Contractor
8.	10(3)	Construction Manager has latest updated version of Fall Protection Plan	Contractor
9.	11(2)(d)	Inform contractor in writing of dangers and hazards relating to construction work	Designer of Structure
10.	11(1)(d)	All drawings pertaining to the design of structure On site available for inspection	Contractor

11.	11(2)(b)	Record of inspections of the structure [First 2 years – once every 6 months, thereafter yearly] - Available on request	Owner of Structure
12.	11(2)(d)	Maintenance records - safety of structure - Available on request	Owner of Structure
13.	11(3)(h)	Record of excavation inspection - On site available on request	Contractor
14.	17(11)	Suspended Platform inspection and performance test records Kept on site available, on request	Contractor
15.	19(8)(c)	Material Hoist daily inspection entered and signed in record book kept on the premises	Contractor
16.	19(8)(d)	Maintenance records for Material Hoist - Available on site	Contractor
17.	20(8)	Records of Bulk Mixing Plants maintenance and repairs On site available for inspection	Contractor
18.	21(2)(g)(ii)	Issuing and collection of cartridges and nails or studs (Explosive Powered Tools) recorded in register – recipient signed for receipt as well as return	Contractor
19.	23(1)(k)	Findings of daily inspections (prior to use) of Construction Vehicles and Mobile Plant	Contractor
20.	24(d)	Record of temporary electrical installation inspections [once a week] and electrical machinery [daily before use] in a register and kept on site	Contractor
21.	29(l)	Fire Evacuation Plan	Contractor

I, the undersigned hereby acknowledge that I fully understand the contents of this Health and Safety Specification and the consequences of non-compliance.

Signed at on this day of 20....

.....
(Print Name) (Signature)

Name & Signature of Service Provider/Contractor Manager

Name of Company

Signed:
(for and on behalf of the client/agent)

Date

Place: