



# HEALTH AND SAFETY PLAN

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**THE MANAGEMENT OF CHRISNELSA(PTY)LTD , ITS EMPLOYEES AND SUBCONTRACTORS COMMIT THEMSELVES TO COMPLY WITH ALL LEGAL REQUIREMENTS, THE CLIENT'S HSE REQUIREMENTS AND STANDARDS AS PRESCRIBED IN THE CONTRACT.**

### 1. PURPOSE AND INTENT

The specifications contained in this document relate to the health and safety requirements, as well as the environmental requirements pertaining to the associated works of ChrisnelSA (Pty)Ltd facilities and construction site at ATD Alliance Tshwane Special Economic Zone, Manitoba Road, Silverton -Site, to ensure the health and safety of persons as well as the safeguarding of the environment and the prevention of pollution.

Monitoring of compliance shall be to the requirements of Legislation, HSE Specifications of Client and ChrisnelSA (Pty) HSE Specifications.

### 2. DESCRIPTION OF CONTRACT

Quality Inspection / rework Services / Containment (**Underline the applicable**)

### 3. SITE ADDRESS


### 4. SITE DETAILS


### 5. NAME AND DETAILS OF CLIENT


### 6. NAME AND DETAILS OF PRINCIPLE CONTRACTOR

CHRISNELSA(PTY)LTD

### 7. Permit Number

Not required

### 8. Environmental Authorization Number

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Not Required

## 9. HSE Policy

ChrisnelSA (Pty) HSE policy will be displayed at all workplaces and be available in each project safety file.

## 10. Disciplinary Procedures

All HSE transgressions will be managed by ChrisnelSA (Pty)Ltd policy & procedure for managing misconduct.

## 11. Legal requirements

ChrisnelSA (Pty)Ltd and all the Sub Contractors will comply with the following acts:

- Basic Conditions of Employment Act No. 75 of 1997 (as amended);  Constitution of the Republic of South Africa (Act 108 of 1996).
- COID Act 130 of 1993.
- Employment Equity Act No. 55 of 1998 (as amended).
- Environment Conservation Act (Act 73 of 1989).
- Labour Relations Act No. 66 of 1995 (as amended).
- National Environmental Management Act (Act 107 of 1998);
- National Environmental Management: Waste Act 59 of 2008;
- National Road Traffic Act (Act 93 of 1996);
- National Water Act (Act 36 of 1998);
- National Veld and forest fire Act (Act 101 of 1998);
- Occupational Health and Safety Act (Act 85 of 1993) and its Regulations.

## 12. Roles and Responsibilities

### General

The overall responsibility to effectively manage risks to the environment and the health and safety of all personnel engaged on the Project and others who may be affected by the works is recognised. This section describes the organisational structure for HSE and outlines the duties of key personnel who are responsible for the planning, implementing and monitoring of the operations as required by the Health and Safety Plan and Environmental Management Plan.

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### **Management Committee**

The Management Committee of the Project has overall responsibility and authority for the construction site in terms of Health, Safety and Environmental Management.

### **Site Manager / Supervisor**

He/she is responsible for the operational planning and also the implementation of the HSE plan.

He/she shall be familiar with all relevant environmental and health and safety legislation.

He/she shall ensure that all staff accountable to him is conversant with the relevant requirements of current legislation and the Project Safety and Environmental Plan.

He/she shall ensure that each Supervisor has adequate resources to carry out his duties and responsibilities in accordance with the Project Safety and Environmental Plan.

He/she shall establish and maintain a direct line of communication with the Safety/Environmental Officer.

He/she may chair the Site Safety Committee meeting.

He/she shall appoint all legal required appointments.

He/she shall monitor the site operation to ensure they are conducted in accordance with the Project Safety/Environmental Plan and take urgent and appropriate action to prevent unsafe working practices or other infringements of statutory and the HSE plan requirements.

He/she shall attend safety audits.

He/she shall ensure that all subcontractors comply with the requirements of the Project HSE Plan.

He/she shall ensure that all necessary work procedures, method statements and work instructions are prepared and issued for safe operation of the works on site.

He/she shall ensure that all subcontractors' documentation included the relevant safety/environmental information and details of the site safety/environmental requirements.

He/she shall ensure that prospective subcontractors are made aware of the requirements of the Project HSE Plan.

He/she shall ensure that all contracts placed with subcontractor's request compliance with the Project HSE Plan and incorporate controls to guard against non-compliance.

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## Supervisors / Team Leaders

They shall be familiar with all safety/environmental procedures relating to the work being carried out under their supervision.

They shall ensure that their subordinates receive clear safety instructions relating to the work that they are carrying out.

They shall ensure that the workplace is maintained in a safe and tidy condition.

They shall assist in giving toolbox talks.

They shall take prompt action to rectify unsafe conditions.

They shall give full co-operation to the Construction Health and Safety Officer and comply with his recommendations.

They shall ensure that all necessary safety devices are provided and used, all site personnel under their control are provided with and wear the necessary Personnel Protective Equipment (PPE), and that all safety procedures appertaining to the works are complied with.

They shall carry out regular inspections of the workplace.

They shall be familiar with all Emergencies and Accident Reporting Procedures, ensure that they are known to their subordinates and implement those procedures as required.

They shall promote safety awareness through leading by example.

They shall ensure that all new employees under their control have received induction training before commencing work.

## Health & Safety Officer

A Health and Safety Officer shall be appointed in writing, accountable to the Manager for the safety assurance of the construction and the supervision and monitoring of the Project HSE Plan.

He/she shall be empowered to stop immediately any work activity on the project and instruct employees of the Company or any subcontractor to take urgent action to make safe the Site and Works to prevent unsafe working practices or other infringements of the HSE Plan or statutory regulations.

He/she shall monitor the implementation of the Project HSE Plan.

He/she shall carry out, or direct the Supervisors to carry out safety inspections in association with site staff to see that only safe methods of work are being observed. He/she shall personally carry out weekly inspections of all work areas. He/she shall report the findings to the Manager and recommend what



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measure, if any, ought to be taken as a result of the inspection. In the event of these measures not being adopted he shall bring the matter to the attention of the Construction Manager.

He/she shall ensure that daily safety and environmental monitoring is maintained and shall keep a daily diary.

He/she shall determine the cause of any accident or dangerous occurrence and recommend means of preventing recurrence. With accidents/incidents He/she will form part of the investigation team.

He/she shall supervise the recording and analysis of information on injuries, damage and loss, environmental or waste pollution and assess accident trends and review overall safety performances.

He/she shall assist with training for all levels of employees on safety.

He/she shall prepare health and safety training programmes.

He/she shall prepare and update Emergency and other Safety or Environmental Procedures in conjunction with the Manager.

He/she shall check all Work Procedures and Method Statements before they are issued to ensure that safety and environmental aspects of the operations they cover are in accordance with the requirements of the HSE Plan.

He/she shall promote awareness of injury prevention and damage control to all levels of employees.

He/she shall liaise with government officials and professional bodies if and when required.

He/she shall keep up to date with the recommended codes of practice and new safety literature and also circulate information applicable to each level of employee.

He/she shall keep the HSE file up to date.

He/she shall attend and participate in the meetings of the Site.

He/she shall be responsible for reporting and recording accidents on the applicable registers.

He/she shall prepare and submit to Manager a report on or before the last day of every month.

He/she shall ensure that the Project HSE Plan and Procedure are issued in accordance with Quality Assurance Procedures and is updated as necessary.

He/she shall maintain safety boards at suitable locations on which will be displayed the up-to-date Site Safety Management Organisation Chart, safety statistics, safety posters and other relevant information.

He shall issue Non-conformance Reports for irregularities observed on site.



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### All Personnel

Every person employed on the Project has a statutory duty to take reasonable care for the health and safety of themselves and others as well as the environment that may be affected by their actions or omissions at work.

With regard to the statutory duties imposed on their employer, they must co-operate with their employer to enable him to comply with the relevant statutory provisions.

No person shall intentionally or recklessly interfere with or misuse anything provided for safety, health or welfare under the relevant statutory provisions.

All personnel shall wear or use the appropriate safety equipment or clothing and use the appropriate safety devices.

All personnel shall familiarise themselves with the relevant requirements of the Project HSE Plan and the appropriate requirements of specific safety plans.

All personnel shall report any accidents and damage to property or equipment to their immediate supervisor, irrespective of whether persons are injured.

All personnel are encouraged to make suggestions to improve health and safety to their supervisor and the Construction Health and Safety Officer.

### Nominated Persons with Health and Safety Duties

#### Competent Appointed Persons

All legal required appointments for this project will be included in the safety file.

The Construction Manager shall appoint competent persons in writing.

#### Sub-contractors:

Each sub-contractor will be appointed in writing and shall comply with this SHE Plan.

The following appointments are required for the project.

#### Basic Appointments:

- Appointment of Principal Contractor by Client.

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- Appointment of OHSA Section16(2) by CEO of Company
- Appointment of a Supervisor according to the Occupational Health and Safety Act , 85 of 1993 , section 8(2) (l)
- Appointment of Health and Safety officers according to the Occupational Health and Safety Act, 85 of 1993

Appointments of full-time employees on site :

- Accident and Incident Investigator
- Risk Assessor
- Portable Electrical Equipment Inspector. First Aider

**13. HSE file**

ChrisnelSA (Pty)Ltd as the principal contractor and its sub-contractors will keep a HSE file on site containing all applicable legal required documents.

**14. Equipment Logbooks and Registers**

Registers and logbooks for plant, tools, and equipment as required in terms of the Occupational Health and Safety Act will be available and maintained by the responsible employees.

**15. Working Hours**

All work conducted on site shall be in accordance with the Basic Conditions of Employment Act.

The Supervisors are required to timeously notify the Client of any work that needs to be performed after hours. Application forms for working after hours including breakdown/emergency hours can be acquired from the Manager.

**16. Medical Surveillance**

All employees are required to do pre medical and periodic medical examinations as required by the OHSA.



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### 17. First Aid

- Where ChrisnelSA (Pty)Ltd employs 5 or more persons, a first aid box and contents will be available on site.
- Where 10 or more persons are employed, a trained First Aider must be available on site.
- The training of employees in first aid can be arranged through the Training Department at Head Office. The ratio of First Aiders per employees is 1:50.
- Place the first aid signs above the door of the room, which contains the first aid box.
- Keep the Dressings Register with the first aid box so that the First Aider can record details of each treatment.

### 18. Facilities

- ChrisnelSA (Pty)Ltd will ensure that sufficient toilets and change rooms are available for employees to use. If necessary, arrange for serviced portable toilets.
- There will be one toilet for every 30 employees, with toilet paper.
- Toilets will clearly indicate gender.
- Dedicated and suitable eating facilities will be established.
- Facilities for safekeeping will be supplied if necessary.
- In all facilities smoking will be prohibited
- Drinking water will be available on site
- All facilities will be kept clean, hygienic and tidy  Facilities will be of sound and neat appearance.
- All facilities will be properly connected to the electrical, water, sewerage, telephone, etc. services to the satisfaction of the local statutory authorities.
- Safe and adequate storage for temporary and permanent material / equipment will be made available.

### 19. Accidents/Incidents

- ChrisnelSA (Pty)Ltd is of the firm believes that all accidents and incidents are preventable.
- All accidents and incidents will be reported and investigated no matter how small.
- The Manager, Supervisors and where applicable the Health and Safety Representative and Client representative will be responsible for the investigations of all incidents, injuries and near misses. In the event of an incident, the Manager will immediately notify Client and ChrisnelSA (Pty)Ltd Head Office. The investigations will be formalised via written reports and methods for corrective action and prevention proposals shall be part of the report.

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- ChrisnelSA (Pty)Ltd will also adhere to the directive of the Client for the prevention, reporting and investigation of Incidents.

The following steps must be followed after any accident/incident.

- Incident occurs.
- Determine and apply emergency care required.
- Report Immediately to the Supervisor and Construction Health and Safety Officer.
- Barricade the incident area.
- Collect or preserve the evidence.
- Supervisor will report to the Manager.
- Manager report to Client and ChrisnelSA (Pty)Ltd.
- Health and Safety Officer to Prompt Investigation.
- Health and Safety Officer to complete claim documentation if required.
- Start recovery of the incident area.

- Incident Classification**

### Near Miss

Any incident that occurs which causes no damage to equipment and no injury to persons but could have caused injury or damage.

### First Aid

Is an injury, as a result of an incident on site, for which only first aid treatment was required.

### Medical Treatment

Any injury to an individual as a result of an incident on site where medical treatment is administered by a qualified nursing sister, medical doctor or medical institution due to First aid treatment being inadequate to treat the injury and returns to work immediately after treatment.

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### **Lost Time Injury**

Any injury to an individual as a result of an incident on site when medical treatment is required by a qualified medical doctor, hospital and registered medical station and absence for recovery requires the individual to be booked off for a period of one day or more.

### **Fatality**

Any death of an employee as a result of and directly due to an incident on duty.

Incident Investigations

All incidents will be investigated.

### **20. HSE Objectives and Targets:**

ChrisnelSA (Pty)Ltd will continuously strive for Zero Harm to any person or the Environment.

ChrisnelSA (Pty)Ltd will be measured on Lost Time Injury free working days and All Injury free working days. Targets are set at 200 days, 400 days, 600 days, 800 days and 1000 days.

ChrisnelSA (Pty)Ltd will be measured on Environmental Incident free working days. Targets are set at 200 days, 400 days, 600 days, 800 days and 1000 days.

### **21. HSE Audits & Inspections**

- The Health and Safety Officer will carry out monthly audits on all sub-contractors. These audits are formally recorded on an audit checklist and records will be kept.
- The Supervisors will carry out ad hoc inspections.
- Regular inspections as required by legislation will be conducted by the responsible person and records kept on file.

### **22. Communication and Liaison:**

- As principal contractor ChrisnelSA (Pty)Ltd will ensure that communication channels will be established as a method to liaise with Client, sub-contractors, H & S reps, employees and management.
- Site Management Meetings will be scheduled on a weekly basis.
- Other forums will be scheduled as and when required.
- ChrisnelSA (Pty)Ltd Head Office meetings will be scheduled on an ad hoc basis.



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- Toolbox talks will be held at least once per day with all staff.
- The Manager and Health and Safety Officer will attend the Client's HSE meetings as per scheduled dates, times and venues.
- ChrisnelSA (Pty)Ltd will ensure all daily, weekly and monthly reports are submitted in time and will be submitted in the format as required by the Client.

### 23. Risk Assessments

#### General

- A Baseline Risk Assessment, for all work areas, will be conducted.
- Task specific risk assessments of all activities will be conducted before any work can be carried out and shall form an integral part of this HSE plan.
- Risk Assessments will be submitted to the Client for approval if and when required.
- Applicable task specific risk assessments will be discussed and communicated daily by the supervisor with his team before any work can start.
- All risk assessments shall be conducted in terms of an acceptable methodology, prior to commencement of work.
- Risk Assessment required by legislation will be conducted as applicable and when required.

#### Monitoring Plan

- Risk assessments will be monitored for effectiveness and application in the workplace by the Construction Health and Safety Officer and the construction management team. This will be done through regular Planned Task Observations.

#### Risk Assessment Review Plan

- ChrisnelSA (Pty)Ltd will review Risk Assessments:
  - In the event of any incident or accident.
  - At intervals of at least once per year;
  - Each time changes are made to the designs, plans and construction methods or processes.
- Any changes to a Risk Assessment will be communicated immediately with all employees.



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- A risk assessment register will be kept in the safety file indicating last revision and status.
- The Manager, supervisors, H & S Reps and Health and Safety Officer reserve the right to stop any work if such work is NOT conducted in terms of the recommendations of the risk assessment.
- Risk Assessments must cover Safety & Health Hazards and Environmental Aspects and Impacts.

## 24. Method Statements

Method Statements will be developed and implemented for each and every task and will define the procedure to be followed, safety controls to be implemented and activity steps to be followed and will form part of the Risk Assessment with each specific task.

## 25. Housekeeping

- ChrisnelSA (Pty)Ltd and sub-contractors will on a daily basis carry out housekeeping inspections to ensure compliance with HSE requirements and standards.
- Removal of scrap, waste and debris at regular intervals will be implemented.
- Storage of loose material and equipment will be maintained to ensure safe access to the construction site
- Furthermore, are supervisors responsible for good housekeeping at all times.  This includes cleanliness at toilets and eating facilities and change rooms.

## 26. Personal Protective Equipment

The following are the minimum required PPE on site:

- Eye protection
- Safety Boots
- Hard Hat
- Hearing Protection
- Reflective Vests

- All PPE will be provided by the employer free of charge.
- Method Statements and risk assessments will determine additional PPE requirements.
- All employees will be trained on the use, limitations and care of PPE.



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- Employees are required to take care of their PPE, report any defective PPE and wear PPE where required by risk assessments and safety signs.
- The use of applicable personal protective equipment will be strictly enforced at all times.

**NOTE: TO CONTROL THE ISSUE OF PPE, A SPECIAL FORM FOR THIS PURPOSE IS AVAILABLE FOR EMPLOYEES TO SIGN THAT THEY HAVE RECEIVED AND WILL USE SUCH PPE**

### 27. Public and Neighbouring Client/Contractor Safety

The Public and neighbouring/Client personnel will be protected by making use of Notices, fencing with 'NO ENTRY' signs, solid barricading and access control with a security guard if required.

### 28. Fire Prevention

- o Appropriate measures will be taken to prevent any risk of fire. These measures are more detailed in the Fire Prevention Plan.
- o Hot work will be carried out according to Hot Work Procedure.
- o All fire fighting equipment will be checked by a competent person, who has been appointed in writing
- o A suitable amount of employees will be trained in fire fighting
- o Fire reporting procedures and emergency action plans will form part of the Emergency Preparedness and Response Plan

### 29. Emergency Preparedness and Response

As per ChrisnelSA (Pty)Ltd Emergency Preparedness and Response Plan.

### 30. Operating of Plant and Equipment:

- The requirements of the General Machinery Regulations must be strictly adhered to
- The competency of drivers and operators will be established before work commences on site so as to ensure the safe operation of plant and equipment. Certificates of competency and driver licenses must be available together with Medical Certificates of Fitness. All drivers and operators must be appointed in writing.
- Strict security regarding key control to prevent unauthorised use of plant and/or machinery must be in place.
- Any item of plant or equipment, which uses a battery, must be so protected as to prevent theft of such items (battery cages to be locked).



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### Stores Control

- Procedures are in place for the receiving of goods and material and the relevant permits and pass-outs for goods and materials that have to leave site.

### 31. Sub – Contractors/Suppliers

- Every Sub – Contractors/Suppliers must comply with the requirements of the applicable acts and the regulations, Client HSE requirements and ChrisnelSA(Pty)Ltd HSE Plan.
- When tendering, every sub-contractor shall provide and demonstrate to ChrisnelSA(Pty)Ltd a suitable and sufficiently documented HSE plan based on Legal, Client and ChrisnelSA(Pty)Ltd documented HSE specifications and requirements, which shall be applied from the date of commencement of and for the duration of the construction work.
- Every subcontracting company will sign an agreement form in terms of section 37 (2) of the OHS ACT and will be appointed.
- Every contractor shall ensure that a health and safety file, which shall include all documentation required in terms of the provisions of the OHS Act and Regulations, is opened and kept on site and made available to a DOL inspector, Client inspector/Client Agent upon request.
- ChrisnelSA(Pty)Ltd shall not appoint a contractor to perform construction work unless reasonably satisfied that the contractor has the necessary competencies and resources to perform the construction work safely.
- Where ChrisnelSA(Pty)Ltd appoints another contractor to perform construction work, the responsibilities that apply to ChrisnelSA(Pty)Ltd shall apply to the contractor as if he or she were the principal contractor.
- Every sub-contractor shall as far as reasonably practicable, promptly provide ChrisnelSA (Pty)Ltd with any information which might affect the health and safety of any person at work carrying out construction work or any person who might be affected by the work of such a person at work or which might justify a review of the HSE plan.

### 32. Intoxication

ChrisnelSA (Pty)Ltd and all sub-contractors will not permit any person who is or appears to be drunk or under the influence of drugs to enter or remain in the workplace or on the premises where machinery is used if such a person's presence constitutes a threat to the safety of himself or other persons in such a workplace or on such premises.

Random and regular testing will be conducted, and records of such tests will be kept in the safety file.

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### 33. **NIHL ( NOISE-INDUCED HEARING LOSS )**

A NIHL assessment will be carried out at all work areas as required by NIHL Regulation 6

A NIHL training Program, as required by NIHL Regulation 3, will be presented to all employees.

Should any work be carried out in an area where the noise levels are high and the noise level cannot be reduced to below 85dBA then the following steps shall be taken:

- Demarcate the noise areas by posting conspicuous notices.
- Prohibit any person from entering a noise area unless wearing hearing protection.
- Issue hearing protection to all employees.
- Train employees on how to use hearing protection.

### 34. **Training**

All employees employed by ChrisnelSA (Pty)Ltd and sub-contractor are assessed for competency with proof thereof before employment. Proof of Competency of all employees will be available on site.

Training will be scheduled according to the following program:

#### **INDUCTION TRAINING**

All new employees will receive induction training on the Client General Site induction and ChrisnelSA (Pty)Ltd induction.

All employees receive refresher induction training on a yearly basis and when employees return after leave or a long absence.

#### **AWARENESS TRAINING**

Awareness training is presented in the form of Health, Safety and Environmental posters displayed on site.



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### TOOLBOX TALKS

Toolbox talks are presented, to all employees, daily and toolbox talk topics are selected on the specific need at the time and will cover Health, Safety and Environmental talk topics.

### RISK ASSESSMENT TRAINING

All employees are trained on new risk assessments as they are developed.

All employees are trained on reviewed risk assessments every time a risk assessment has been reviewed.

Risk Assessment refresher training is presented on a regular basis. The need will be determined from job observations, accident/incident investigation, outcomes, audits, etc.

All employees are trained daily on Task Specific Risk Assessment of the specific planned activities for the day.

### FALL PROTECTION TRAINING

Fall Protection Training will be done according to the Fall Prevention Plan.

### PROCEDURE TRAINING

All employees will be trained on new procedure as they are developed.

All employees will be trained on procedure every time they are revised.

Procedure refresher training is presented on a regular basis. The need will be determined from job observations, accident/incident investigation outcomes, audits, etc.

### SKILLS DEVELOPMENT, JOB SPECIFIC AND SPECIALIZED TRAINING

Skills development, job specific and specialized training will be given to selected employees as determined by management according to specific needs, skills development, legal requirements, etc. This includes but is not limited to first aid, scaffolding, fire fighting, SHE rep, portable electrical tools, rigging, crane operators, etc. This training will be given by registered training service providers.

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### 36. Symbolic Signs & Posters

Safety, Warning, Mandatory and Information signs will be posted at strategic locations and as required by legislation.

### 37. SMI

A Safety Management Information (SMI) board shall be erected at the site office and maintained during the construction period. The board shall be weatherproof.

Items to be displayed on the board shall include:

- Unique permit number
- Safety Statistics
- Name and telephone number of appointed Manager and HSE Officer on site

### 38. Permit to Work

- Certain High risk activities will ONLY be permitted once a PERMIT TO WORK has been issued by CHRISNELSA(PTY)LTDSA(PTY) LTD which must comply with the "Permit to work" procedure of the Client's risk management department.
- Each permit must include detailed information about the nature of the work, the precautions taken by the worker and by the employer, and details regarding the individual permitted to do the work. It must also give details of the length of time for which the permit is valid.
- No employee will be permitted to work if the PERMIT TO WORK has not been issued for the specific task.

### Reporting to Client and Client Agent

ChrisnelSA (Pty)Ltd will report through Daily Dairies, weekly reports and monthly reports to the Client on HSE matters.

### 39. Access Control and Security

All those who access site are required to strictly adhere to all security requirements on the premises, as laid down by the Client.

#### Security and Site Access

Security requirements shall be included at Client and ChrisnelSA (Pty)Ltd induction training. Following induction, all employees are registered on the site access system and are issued with access certificates. Access certificates must be kept with each ChrisnelSA (Pty)Ltd employee and their

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Contractors at all times within the site. Under no circumstances are access cards allowed to be used by any other person other than the person issued with the card.

### **Security requirements on Site**

ChrisnelSA (Pty)Ltd are to provide security controls at each site camp and at determine requirements for the site access gate, RW will provide security cover at the external access at the main gate.

Outsourced security services are to be treated as Contractors.

The security guards should be fully trained and knowledgeable about the company and its assets. Security guards on site to be accredited with the Private Security Industry Regulatory Authority (PSIRA) and hold an identification card from PSIRA at all times.

The project/site security arrangements that are to be included in the PSHSP include, but are not limited to:

- The provision of shelter, with access to ablution facilities;
- The management of the Visitor's register and Occurrence book;
- The provision and maintenance of an appropriate communication system between patrols and to contact the relevant authorities in an emergency;
- Professional uniform that is neat and professional.;
- Ensuring that Personal Protective Equipment is to be provided for patrolling guards, and all other CHS activities appropriate to limit their exposure.

### **Project Site Access**

ChrisnelSA (Pty)Ltd, in collaboration with the Client/Agent's representative will ensure that proper access control is in place and functional at all times on the construction site, by posting a notice at every entrance, prohibiting entry of unauthorised person/s.

ChrisnelSA(Pty)Ltd will take all necessary steps to control the entry and movement of nonemployees into or onto a construction site or any other workplace and to ensure that persons outside the workplace are not detrimentally affected by the workplace activities.

### **41. Traffic Management**

The construction site will be organized to facilitate the movement of construction vehicles in such a manner that pedestrians and other vehicles are not endangered.

### **42. Portable Electrical Equipment**

- Portable electrical tools & equipment includes every unit that takes electrical power from a 15 ampere plugs point & is moved around for use in the workplace, i.e. drills grinders etc.

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- Portable Electrical Equipment
  - o will have a nonconductive handle,
  - o any metal parts will be well insulated to prevent electrocution in the event of any faults.
  - o is protected by a well-constructed guard where applicable.
  - o the lead in must be without any wires exposed.
  - o are not to be used in wet conditions.
- All portable electrical tools and portable lights will only be used from an electrical source that incorporates an earth leakage protection device.
- All users of electrical tools will ensure the use of applicable PPE.
- In addition, electrical appliances such as fridges, hotplates, heaters, etc. must be inspected & maintained to the same standards as portable electrical tools.
- All portable electrical tools will be inspected monthly by a competent person.

#### 43. Hazardous Chemical Substances

All Hazardous Chemical Substances to be used must be assessed according to the HCS Regulation 5

All employees will be trained on a HCS Training Program as required by HCS Regulation 3

All HCS will be managed according to ChrisnelSA (Pty)Ltd HCS Procedure.

All other requirements as stipulated in the HCS Regulations will be complied with at all times.

#### 44. HSE Costs

Sufficient provision will be made available for the cost of HSE.

#### 45. Lifting Machines and Lifting Tackle

ChrisnelSA (Pty)Ltd will not use or permit the use of any lifting machines unless it has been:

- o Designed and constructed in accordance with generally accepted technical standards. o It is conspicuously and clearly marked with the maximum mass load.
- o Installed load limiters.
- o That the lifting machine is regularly tested and inspected at intervals as required by the DMR
- o Is operated by a competent person as defined in the DMR.

Lifting machines must be operated, used, inspected and maintained in accordance with the manufacturers requirements as well as that of the of Driven Machinery Regulation of the OHS ACT

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#### 46. Fall Prevention

As per ChrisnelSA (Pty)Ltd Fall Prevention Plan.

#### 47. Electrical & Mechanical Lockout

No electrical or mechanical repair work will be carried out if machinery and equipment is not locked-out according to legal and Client specifications.

#### 48. Vehicles

- o ChrisnelSA (Pty)Ltd will ensure that all mobile equipment is used according to its design purpose and are maintained in a serviceable and good working order.
- o All operators of such vehicles will be medically fit, appointed in writing and competency can be proven.
- o All mobile equipment must have a fire extinguisher.
- o All mobile plant will be adequately safeguarded to prevent any occurrences that **MAY ENDANGER THE LIFE OF THE OPERATOR**
- o All Mobile equipment will be checked against a daily pre-use checklist.
  - o No passengers will be allowed on mobile equipment not designed for the purpose.
  - o Traffic routes will be indicated by appropriate signs.
- o All mobile equipment must be properly parked and safeguarded when not in use
  - o All mobile equipment will be adequately controlled and guided during site operations to prevent any accidents /incidents from occurring.

#### 49. Transportation of employees

- o ChrisnelSA (Pty)Ltd will only transport employees in suitable covered vehicles with adequate and safe seating facilities when applicable .
- o When tools and equipment is transported in the same vehicle as employees the tools and equipment will be adequately secured to prevent any injury to employees.
- o Vehicles transporting employees will be road worthy and will have the necessary road worthy certificates.

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## 50. Stacking and Storage

- o ChrisnelSA (Pty)Ltd will ensure that all stacking and storage practice are conducted within the General Safety Regulations and will be conducted under the supervision of a suitably competent person appointed in writing
- o All stacking and storage will be adequately maintained, and storage areas will be provided, demarcated and kept neat and tidy
- o A risk assessment must be carried out before deciding on the type of, and place of stacking and/or storage to ensure that it does not induce any unacceptable hazards
- o The building of stacks, which consist of successive tiers, one on top of another, must be executed by or under the personal supervision of a person with specific knowledge and experience of this type of work. This person must be appointed in writing.
- o All storage must be contained within demarcated areas.
- o Bins, racks and pallets used for storage, must be maintained in good condition to provide a stable and level footing, capable of carrying the stored mass.
- o Maximum block stacking height for palletised goods is three levels. o Maximum height for single stacking is 3 times the shortest base distance.
- o Empty pallets are to be stacked to a maximum of 2,5m. If stacked in an open area, a 5-metre space must be left between pallets and any building.
- o If stored inside buildings, a 1 metre inside clearance from walls and service equipment must be left to facilitate fire control.
- o Circular items must be adequately chocked with proper wedges and/or strapped. o Storage on cupboards and windowsills must be neat and safe. o Cabinets must be kept neat and in order.
- o Food must not be stored together with HCS and other goods

## 51. Structures

- o ChrisnelSA (Pty)Ltd will ensure that all reasonable practical steps will be taken to ensure the prevention of an uncontrolled collapse of any new or existing structure(s) or any part thereof, which may become unstable or is in a temporary state of weakness or instability due to the carrying out of construction work.

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- o The preventative measures may include the following but are not limited to:
  - Stabilising the structure
  - Obtain a geophysical report if necessary.  Not overload the structure
  - Inform the Client of any such instability
  - Take into account any hazards associated with the unstable structure
  - Carry out inspections on a regular basis
  - Stop work if necessary

## 52. Hot Work

All Hot Work will be carried out according to ChrisnelSA (Pty)Ltd Hot Work Procedure.

## 53. Letter of Good Standing

The letter of good standing will be available in the safety file

## 54. Smoking

Smoking is strictly prohibited in all workplaces as required by law.

## 55. Behaviour Based Safety Program

This will be done according to ChrisnelSA(Pty)Ltd BBS Program.

## 56. Environmental Management

### ENVIRONMENTAL MISSION STATEMENT

Our mission as a company is to achieve our business objectives with recognition of our responsibilities towards the community and our environment.

We will '**PROMOTE AND PRESERVE ENVIRONMENTAL QUALITY**' in all activities, not only through adherence to environmental legislation but in a wider frame of participation and cooperation with specific reference to:

- Preservation of flora and fauna around the construction site of works.
- Cleanliness of the site at all times.
- Consideration of noise levels.
- Consideration of dust levels



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- Control of and management of water resources
- Site restoration on completion of works.
- Waste Management
- Prevention of HCS spillages
- Prevention of fire

### **Environmental Management**

Every effort will be made to lessen the impact of our operations on the environment, and to educate our employees.

All employees will have a short lecture on environmental awareness as part of the induction process.

Site Management will endeavour in their planning to avoid environmental damage by preventing pollution of air, water and ground.

All construction activities will be carried out in compliance with the Client's EMP and ROD.

All construction activities will be carried out in compliance with the following Environmental Legislation:

- o National Environmental Management Act 107 of 1998
- o National Environmental Management: Waste Act 59 of 2008
- o National Environmental Management: Biodiversity Act 10 of 2004
- o National Water Act 36 of 1998
- o National Environmental Management: Air Quality Act 39 of 2004
- o Applicable Provincial and Municipal By-Laws

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### ASPECT & IMPACT REGISTER WITH MITIGATIONS AND CONTROLS

ASPECT	IMPACT	CONTROLS AND MITIGATIONS
Dust	Air Pollution	<input type="checkbox"/> Proper compaction of lay down and site areas
Fire	Destruction of Fauna and Flora	Hot Work permit system <input type="checkbox"/> Fire Extinguishers placed at strategic places <input type="checkbox"/> Emergency Preparedness and Response <input type="checkbox"/> Procedure <input type="checkbox"/> Hot Work Procedure
Noise	Air Pollution	<input type="checkbox"/> Noise monitoring surveys <input type="checkbox"/> Hazard Identification and Risk Assessments <input type="checkbox"/> Engineering controls where reasonably practicable
Waste	Environmental pollution caused by waste generated due to construction activities	<input type="checkbox"/> <input type="checkbox"/> Disposal of waste into correct bins <input type="checkbox"/> Good Housekeeping to be practiced at all times Compliance with the Environmental Management Waste Act
Hazardous Chemical Substances	Environmental pollution caused by spillages of hazardous chemicals substances	<input type="checkbox"/> Storage of hazardous chemicals and substances only in dedicated and approved areas and/or containers as required by law <input type="checkbox"/> Approved bund walls around mass fuel or hazardous chemical storage areas <input type="checkbox"/> Drip trays to be used under construction vehicles <input type="checkbox"/> Compliance with the Environmental Management <input type="checkbox"/> Act Cleaning of construction vehicles only in designated areas <input type="checkbox"/> MSDS <input type="checkbox"/> Toolbox Talks <input type="checkbox"/> Spill Kits <input type="checkbox"/> Weekly workplace inspections <input type="checkbox"/> Induction training <input type="checkbox"/> Proper storage areas

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Storm Water/Runoff	<p>Soil erosion and pollution due to storm water running through workshops, fuel storage areas and other contaminated areas</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Bund walls around hazardous areas</li> <li><input type="checkbox"/> Proper compaction of lay down areas to prevent erosion due to storm water Oil spill</li> <li><input type="checkbox"/> procedure and prevention</li> <li><input type="checkbox"/> Hazardous Chemical spillage prevention</li> </ul>
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Environmental Awareness Programme Environmental awareness will be initiated through the following:

- Induction Training
- Environmental toolbox talks
- Environmental awareness posters
- Risk assessments
- Job Observations
- Workplace inspections

### Recourse Management

We are totally committed to continuously promote the reduction of various recourses applicable to the construction activities through Engineering Controls where reasonably practicable or otherwise through effective Administrative Controls in the form of awareness programs, procedure, Environmental Improvement Plans and the setting of Environmental Objectives & Targets.

We have identified the following recourse reduction opportunities:

### Electricity

Reduce electricity consumption of all construction activities by continuously promoting the following:

- The purchase and use of energy efficient appliances and electrical equipment where reasonably practicable such as energy efficient lighting globes, solar panels, etc.
- Switching off all electrical appliances such as air conditioners, lights, computers, etc. at the end of each shift.

### Water

Reduce the water consumption of all construction activities by continuously promoting the following:

- Ensure all water taps, toilets, water pipe joints and other water appliances are in a good and leak proof condition and are regularly inspected and maintained to prevent the leaking and wastage of water.

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- Ensure water taps are closed properly after use and not left running excessively.
- Prevent the contamination of any water source.

### Paper

Reduce the use of white paper at all construction activities by continuously promoting the following:

- The use of electronic documents instead of hard copies.
- Where electronic documents are not practicable the double-sided printing of hard copy documents.
- Where practicable hard copy documents should be printed in smaller printer settings

### Fuel

Reduce the use of fossil fuels at all construction activities by continuously promoting the following:

- Scheduling regular maintenance of all mobile equipment to ensure maximum fuel consumption and ensure adherence to service plan guidelines and intervals.
- Prevent the excessive idling of all mobile equipment.
- Effective trip planning and vehicle usage management.
- Ensure proper refuelling methods and procedures are followed to prevent spillages.
- Ensure fuel storage containers are leak proof and in good condition.
- Prevention of all fuel spillages and investigation of all spillage incidents.

### Waste Management

All waste will be managed according to the Waste Management Procedure.

### Hazardous Chemical Substances

All HCS will be managed according to the HCS Procedure.

**CHRISNELSA(PTY)LTD AND AFFILIATES \_ RELEASED: 10 Jan 2023 \_ MD \_001**