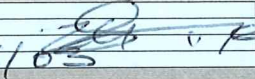


Occupational Health and Safety Baseline risk assessment template

Business/Operating unit:		Medupi Power Station Project				Department:												Next Review Date (every 2 years):		2023/06/01		Template identifier:		240-70044602	
Date:		2021/03/25				Prepared by:		Risk Assessment Team in consultation with employees as per the attendance register				Authorised by:		Name: Zandi Shange Designation: General Manager (Acting) Signed:  Date: 2021/06/03				Document identifier:		32-520					
																		Revision number:		11					
																		Revision date:		31-May-24					
Refer to Occupational Health and Safety Risk assessment procedure 32-520																									
List activity	Hazard nr	Hazard identification	Risk Nr	Associated risk	Risk type	Exposed group/employees	Risk Owner	Exposure patterns	What are the possible consequences?	Existing Controls						Risk Priority Rating	Additional Controls or Tasks Aimed at Improving Existing Controls	Monitoring Mechanisms	Control Owner	Legal and Other Requirements	Target Date	Current Status	Integrated Risk Management (IRM) reference number		
OFFICE ENVIRONMENT																									
Office Environment: General Administrative work, Office Furniture/Equipment	1	Microwave	1,1	Burns or Explosion of fire.	Safety	Employees, People living with Disabilities & Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 1 hr	1 Injury, 2 Fatality, 3 Property damage	1. Regular Inspection. 2. Never put sealed containers or metal implements into a microwave. 3. A fire extinguisher is stied nearby. 4. Air vents at side and rear be clear	4	B	III	Mostly effective	Reporting of defects followed by prompt corrective action	Audit Reports Inspection Reports Incidents Statistics	Departmental Managers & Employees	Medupi SHE Spec 50 OHS Act 65 of 1993 Facilities Regulation 5 Env Reg 9 Basic Conditions of employment Act.	Jul-21	In-progress & continuous					
			1,2	Scald	Safety	Employees, People living with Disabilities & Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 1 hr	1 Injury, 2 Property damage	Flan shued before pre-heating. Open the containant lead before you warm the food. Leave the food to cool down before you remove food from the microwave.	4	B	III	Mostly effective	Reporting of defects followed by prompt corrective action	Audit Reports Inspection Reports Incidents Statistics	Departmental Managers & Employees	Facilities Regulation 5 Env Reg 9 Gen Safety Reg 3	Jul-21	In-progress & continuous					
	2	Hydro boiler (Contact with steam, hot water)	2,1	Burns or Explosion.	Safety	Employees, People living with Disabilities & Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 1 hr	1 Injury, 2 fatality, 3 property damage	1. Regular Inspections	4	B	III	Mostly effective	Reporting of defects followed by prompt corrective action	Audit Reports Inspection Reports Incidents Statistics	Departmental Managers & Employees	Facilities Regulation 7 Gen Safety Reg 3	Jul-21	In-progress & continuous					
	3	IT cables	3,1	Slip, Trip & Falls	Safety	Employees, People living with Disabilities & Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	Last-time injury	1. Proper cable routing	4	B	III	Mostly effective	Reporting of defects followed by prompt corrective action	Audit Reports Inspection Reports Incidents Statistics	Departmental Managers & Employees	Facilities Regulation 5 & 8 Env Reg 6 (20d)	Jul-21	In-progress & continuous					
	4	Slippery Floor/Uneven Surfaces	4,1	Slip, Trip & Falls	Safety	Employees, People living with Disabilities & Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	Last-time injury	1. Routine clearing warning signs	4	B	III	Mostly effective	Route diversion	Audit Reports Inspection Reports Incidents Statistics	Departmental Managers & Employees	OHS Act, Env Reg 6 (2f)	Jul-21	In-progress & continuous					
	5	Stairways	5,1	Slip, Trip & Falls	Safety	Employees, People living with Disabilities & Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	Last-time injury	1. Warning signs 2. Awareness 3. Structure inspections	4	C	II	Mostly effective	Warning signs	Audit Reports Inspection Reports Incidents Statistics	Departmental Managers & Employees	Env Reg 6 (2d) & 9 (e-f)	Jul-21	In-progress & continuous					
	6	Chairs, tables	6,1	Bumping onto/against.	Safety	Employees, People living with Disabilities & Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	Last-time injury	Correct placing of office furniture, Guarding around sharp edges	4	B	III	Mostly effective	Correct placing of office furniture, Guarding around sharp edges	Audit Reports Inspection Reports Incidents Statistics	Departmental Managers & Employees	Facilities Regulation 5 & 8 Env Reg 9 Gen Safety Reg 3	Jul-21	In-progress & continuous					
	7	Doors and door handles	7,1	Caught By/Between the door or handle, Sustain finger injuries	Safety	Employees, People living with Disabilities & Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	Last-time injury	Training & awareness, Occupational Health & Inspection/survey	4	A	III	Mostly effective	Training and Awareness, Risk assessment,	Audits Reports Inspection Reports Incidents Reports	Departmental Managers & employees	Facilities Regulation 5(2b)	Jul-21	In-progress & continuous					
	8	Handrails	8,1	Slip, falls	Safety	Employees, People living with Disabilities & Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	Last-time injury	Training & awareness, Occupational Health & Inspection/survey	2	A	III	Mostly effective	Training and Awareness, Risk assessment,	Audits Reports Inspection Reports Incidents Reports	Departmental Managers & employees	Env Reg 9 d	Jul-21	In-progress & continuous					
9	File cabinets	9,1	Falling objects	Safety	Employees Expectant Females People living with Disabilities Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	Property damage - injury	1. Use labels and guides to help locate files	2	C	III	Fuly effective	Filing Training and Awareness, Risk assessment,	Audits Reports Inspection Reports Incidents Reports	Departmental Managers & employees	Gen Safety Reg 8	Jul-21	In-progress & continuous						
Incompetency while performing activities	10	Unskilled personnel /untrained workforce	10,1	Poor judgement which lead to injuries	Safety	Employees People living with Disabilities Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	Injury	1. Training needs analysis & matrix. 2. Training provided by accredited training service providers 3. SHE Inductions	5	C	II	Mostly effective	On duty training and coaching Management Plant Walkabout Planned Task Observation Site operations rules	Audit Reports Incidents Reports Management Walkabout Reports	Departmental Managers & Employees	SHE Specification form 23 & 24 OHS Act, 1993 (Act 85 of 1993) & its regulations Basic Conditions of employment Act, The Constitution of the Republic of South Africa	Jul-21	In-progress & continuous					
Overtime	11	Excessive working hours	11,1	Fatigue	Safety	Employees People living with Disabilities Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Fatality, 2 Injury.	1. Rotation of employees. 2. Communication and awareness, 3. Employee Assistance Programme	5	C	II	Mostly effective	Leave management Long pay weekend Facilities for breastfeeding mothers	Signing register, Clocking device Audit Reports Incidents Reports	Departmental Managers & Employees	OHS Act 65 of 1993 & its Rulutions Leave management procedure, Basic conditions of service, basic condition of	Jul-21	In-progress & continuous					
Communication of instructions and messages	12	Language barrier	12,1	Poor information / knowledge transfer,	Safety	Employees People living with Disabilities Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Fatality, 2 Injury.	1. Appointment of interpreters. 2. Team leaders/supervisors understand preferred business language 3. SHE Induction	5	A	II	Mostly effective	1. Signage	Audit Reports Incidents Reports	Departmental Managers & Employees	SHE Spec Form 35, OHS Act 65 of 1993 sec 13 & 4s regulations	Jul-21	In-progress & continuous					
Labour and community unrest	13	Strike (Protest action)	13,1	Instability/Strike action (Protest)	Safety	Employees Expectant Females People living with Disabilities Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Once in a while (ad hoc / infrequent)	1 Lost-time injury, 2. Project delays	1. Extensive informer network across all contractors enabled timely knowledge of intended strikes 2. Reactive: Discuss with contractors on correct staff retrenchment procedures, discussion with workers on process to be followed 3. Community Liaison structure in place 4. Have a open door policy communication	4	B	III	Mostly effective	1. Establish EP Centre to ensure prompt response 2. Establish SAPS Support, 4. Establish Security Intelligence gathering. 5. Establish Security Systems, 6. Establish stakeholder involvement and preventative programmes	Meeting Minutes Incidents reports Communication / complaints registers IR Reports	Departmental Managers & Employees	OHS Act, 1993 (Act 85 of 1993) & its regulations Basic Conditions of employment Act.	Jul-21	In-progress & continuous					
	14	Poor/Less /Slow employment employer/employee relations	14,1	Instability/Strike action	Safety	Employees Expectant Females People living with Disabilities Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Once in a while (ad hoc / infrequent)	1. Lost-time injury, 2. Fatality	1. Communication and awareness of PLA agreement 2. SHE Induction 3. Employee Assistance Program	4	A	III	Mostly effective	1. Establish EP Centre to ensure prompt response 2. Establish SAPS Support, 4. Establish Security Intelligence gathering. 5. Establish Security Systems, 6. Establish stakeholder involvement and preventative	Meeting Minutes Incidents reports Communication / complaints registers IR Reports	Departmental Managers & Employees	OHS Act, 1993 (Act 85 of 1993) & its regulations Basic Conditions of employment Act.	Jul-21	In-progress & continuous					
Security / Access Control	15	Lack of access control	15,1	Unauthorized entry, Delaying access to site	Safety	Employees Expectant Females People living with Disabilities Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Injury.	1. Access control at the gates, 2. Identification Cards, 3. Perimeter Fencing 4. Activated EP response	2	A	III	Mostly effective	1. Security patrols, 2. Biometric system 3. Security Surveillance Camera 4. On bus access verification	Audit Reports Incidents Reports Security Reports	Departmental Managers & Employees	SHE Spec-Form 25 Plant safety Reg. General Safety Reg 2B	Jul-21	In-progress & continuous					
CONSTRUCTION ACTIVITIES																									
Working at height	16	Heights/Elevated Position	16,1	Fall of persons	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Fatality	1. Working at height procedure implementation and enforcement, 2. Fall Protection Plan implementation and enforcement, 3. Working at height training, 4. Medical Surveillance, 5. Emergency Response and Rescue Plan 6. Monthly Audits 7. Management plant walkabout inspections	5	B	III	Mostly effective	1. Supervision, 2. Conformance to procedures, 3. Rescue Plan 4. Working at heights risk assessment 5. Toolbox talks 6. SHE Induction	Audits Reports Management walkabout reports Incidents Reports Scaffolding structure inspection checklist	Departmental Managers & Employees	SHE Spec-Form 35 Constr Reg 10, 16, 17, 18, 19 General Safety Reg 13A	Jul-21	In-progress & continuous					
			16,2	Fall of material	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1. Lost-time injury, 2. Fatality	1. Work at height procedure followed implementation and enforcement, 2. Plant Inspections, 3. Good housekeeping enforcement 4. Monthly Audits	4	B	III	Mostly effective	1. Barricading/Exclusion Zones, 2. Lanyards attached to all tools 3. Toolbox talks 4. SHE Induction	Audits Reports Inspection Reports Incidents Reports	Departmental Managers & Employees	SHE Spec-Form 35 & 62 Constr Reg 10, 16, 22 General Safety Reg 6, 13B	Jul-21	In-progress & continuous					
			16,3	Collapse of structure	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1. Fatality,	1. Structure to be safety cleared (safe to work), 2. Supervision, 3. Plant Inspections 4. SHE Induction	5	B	III	Mostly effective	1. Safety clearance	Audits Reports Inspection Reports Incidents Reports	Departmental Managers & Employees	Constr Reg 11 & 14	Jul-21	In-progress & continuous					
			16,4	Physically unfit personnel	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Injury	1. Work at height procedure implementation and enforcement, 2. Medical examination 3. SHE Induction 4. Monthly audits 5. Toolbox talks	2	B	III	Mostly effective	1. Training on working at heights	Audits Reports Inspection Reports Incidents Reports	Departmental Managers & Employees	SHE Spec Form 14 CR 71g	Jul-21	In-progress & continuous					
			16,5	Failure of hydraulic systems	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Fatality	1. Maintenance Schedules, 2. Supervision, 3. Competency 4. Monthly Reports	5	C	II	Mostly effective	Training	Audits Reports Inspection Reports Incidents Reports	Departmental Managers & Employees	SHE Spec Form 62 General Machinery Reg	Jul-21	In-progress & continuous					
			16,6	Unauthorised/untrained operators	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Injury,	1. Work at height procedure implementation and enforcement 2. Appointment of supervisors	5	B	III	Mostly effective	1. Training on working at heights, 2. Appointment EP Planner	Audits Reports Inspection Reports Incidents Reports	Departmental Managers & Employees	SHE Spec Form 62 General Machinery Reg	Jul-21	In-progress & continuous					
			16,7	Adverse weather conditions	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Injury,	1. Monitoring of weather conditions, 2. Communication	4	B	III	Mostly effective	1. Supervision, 2. Task specific risk assessment, 3. Weather monitoring 4. Communication	Audits Reports Inspection Reports Incidents Reports	Departmental Managers & Employees	Constr Reg 24	Jul-21	In-progress & continuous					
Project management and supervision of Lifting Operations	17	Lifting Equipment/ Machinery	17,1	Collapse of lifting machinery (cranes)	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1. Fatalities, 2. Injuries .	1. Certification and inspection prior to erection 2. Competent and certified operator, Load testing 3. Gedtechnical studies 4. Critical lift procedure implementation and enforcement 5. Crane access and inspection plan implementation and enforcement 6. Crane coordination procedure implementation and enforcement 7. Monthly audits 8. SHE Induction	5	B	III	Mostly effective	1. Competent supervisor to oversee the works, 2. Rigging study, 3. Scheduled maintenance, 4. Training, 5. Calibration of safety devices	Audits Reports Inspection Reports Incidents Reports	Departmental Managers & Employees	OHS Act 83 OF 1993, CR 18, 19, 22 SHE Spec 62	Jul-21	In-progress & continuous					
			17,2	Overloading Crane	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1. Fatality, 2. Injuries 3. Damage to property, 4. Production loss	1. Only trained operators, 2. Rigging study, in place, 3. Monthly audits 4. Load testing 4. Critical lift procedure implementation and enforcement 5. Crane access and inspection plan implementation and enforcement 6. Crane coordination procedure implementation and enforcement	5	C	III	Mostly effective	Competent crane specialist to oversee the works	Audits Reports Inspection Reports Incidents Reports	Departmental Managers & Employees	OHS Act 83 OF 1993, CR 18, 19, 22 SHE Spec 62 Mishaps 205-160237 Crane Access and Inspection Plan Rev 01	Jul-21	In-progress & continuous					



			17.3	Mechanical Failure	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Fatalities	1 Safety work procedures implementation and enforcement, 2 Maintenance program, 3 Regular inspections 4 Critical lift procedure implementation and enforcement 5 Crane access and inspection plan implementation and enforcement 6 Crane coordination procedure implementation and enforcement	5	C	II	Mostly effective	1 Lifting Machinery and Equipment Maintenance program, 2 Manufactures operating instructions	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	OHS Act 83 OF 1993, CR 18, 19, 22 SHE Spec 62	Jul-21	In-progress & continuous	
			17.4	Dropping of load	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Fatalities	1 Competent and certified operators, 2 Adhere to safe working loads, 3 Adequate communication methods, 4 Wind speed monitoring devices, 5 Monthly audits	5	B	II	Mostly effective	1 Competent supervisor	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	OHS Act 83 OF 1993, CR 18, 19, 22 SHE Spec 62	Jul-21	In-progress & continuous	
			17.5	Failure of lifting equipment/devices	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 2 hrs	1 Fatality, 2 Injuries	1 Daily inspection, 2 Periodical testing and certification, 3 Adequate communication methods, 4 Maintenance program 5 Monthly audits 6 Proper storage 7 Lifting regulation inspections compliance	4	C	II	Mostly effective	1 Competent and certified operators, 2 Adhere to safe working load, 3 Lifting machinery and equipment maintenance program, 4 Manufacturer operating instructions	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	OHS Act 83 OF 1993, CR 18, 19, 22 SHE Spec 62 Medium 200-169237 Crane Access and Inspection Plan Rev 01	Jul-21	In-progress & continuous	
Confined Space Activities	18	Hazardous atmosphere and substances, Electrical & mechanical Equipments - animals, Floods, underground services, Limited Access, Egress & workspace - temperature extremes, noise & vibration, radiation, surface, etc.	18.1	Fire	Safety	Employees Expecting mothers Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 2 hrs	1 Fatality, 2 Injuries	Training and awareness - Use of PPE, Air quality testing & Continuous Gas Monitoring Confine space entry permit -	5	B	II	Mostly effective	Emergency personnel Trained fire wardens Employees register	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	SHE Spec Form 68, General Safety Reg 5 Env Reg HCS Reg 5, 6, 10, 12	Jul-21	In-progress & continuous	
			18.2	Water/Engulfment	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 2 hrs	1 Fatality, 2 Injuries	1 Supervision, 2 Training/Awareness and communication 3 Risk assessment, Confined space permit 4 Communication channels	5	A	II	Mostly effective	Provide life buoy & life-jacket, Buddy system, Emergency facilities	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	SHE Spec Form 68, General Safety Reg 5 Env Reg HCS Reg 5, 6, 10, 12	Jul-21	In-progress & continuous	
			18.3	Lone work	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 2 hrs	1 Injury 2 Fatalities	1 Safe work procedure implementation and enforcement 2 Supervision 3 Awareness training, Register	4	A	II	Mostly effective	Buddy System, Emergency plan activation	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	SHE Spec Form 68, General Safety Reg 5 Env Reg HCS Reg 5, 6, 10, 12	Jul-21	In-progress & continuous	
			18.4	Poor lighting	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 2 hrs	1 Lost-time injury	1 Provision of artificial lighting	4	B	II	Mostly effective	Buddy System, Emergency plan activation	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	SHE Spec Form 68, General Safety Reg 5 Env Reg HCS Reg 5, 6, 10, 12 Construction Reg 26, 29	Jul-21	In-progress & continuous	
Project management and supervision of blasting operations	19	Blasting	19.1	Misfiring	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Once off (infrequent & adhoc basis)	1 Fatality, 2 Severe injuries	1 Notification to blasting inspector, 2 Designated area for disposing mis-fired explosives, 3 Pre and post inspection of blasting area, 4 Blasting Permit	5	B	II	Mostly effective	1 Verification by blaster, 2 Restricted access, 3 Recharging of mis-fired magazines	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	SHE Spec 71, OHS Act 85 of 1993 - Explosives Regulation13 of the OHS Act	Jul-21	In-progress & continuous	
			19.2	Explosion	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Once off (infrequent & adhoc basis)	1 Multiple fatalities 2 Severe injuries	1 Restricted access to the area, 2 Blasting permit, 3 Training 4 Communication and signage of blasting date and time 5 Warning sirens, 6 Communication	6	B	I	Mostly effective	1 Signage around blasting parameters, 2 Supervision, 3 Locking the gate of blasting site/area	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	SHE Spec 71, OHS Act 85 of 1993 - Explosives Regulation13 of the OHS Act	Jul-21	In-progress & continuous	R 38 879
			19.3	Flying rocks	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Once off (infrequent & adhoc basis)	1 Fatality, 2 Severe injuries	1 Covered blast, 2 Proper assessment 3 Use the correct amount of blasting	5	B	II	Mostly effective	1 Signage around blasting parameters, 2 Supervision, 3 Locking the gate of blasting site/area	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	SHE Spec 54, 71, OHS Act 85 of 1993 - Explosives Regulation13 of the OHS Act	Jul-21	In-progress & continuous	
			19.4	Storage, Transportation & Handling of Explosives	Safety	Employees Visitors General public	Responsible Functional Managers (accountable) & Employees (responsible) Supplier Manager	Once off (infrequent & adhoc basis)	1 Fatality, 2 Severe injuries	1 Legislation, 2 Standards & Procedures, 3 Supervision, inspection, Competency & training, 4 Planned task observations, 5 Security, 6 Approved explosive magazine, 7 Magazine Master	5	B	II	Mostly effective	1 Signage around blasting parameters, 2 Supervision, 3 Locking the gate of blasting site/area 4 Awareness	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	SHE Spec 71, OHS Act 85 of 1993 - Explosives Regulation13 of the OHS Act	Jul-21	In-progress & continuous	
Supervision of construction of Buildings, Structures, and Roads	20	Excavations	20.1	Collapse of excavation (Engulfment)	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Fatalities, 2 Severe injuries	1 Excavation permit, 2 Adequate shoring and battering 3 Supervision, 4 Excavation plan, 5 Daily inspection, 6 Barricading 7 Risk Assessment and Safe work procedures	5	B	II	Mostly effective	1 Excavation plan, 2 Excavation wall support, 3 Access control, 4 Access/signage 5 Additional controls	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	SHE Spec Form 66, 70, OHS Act85- CR 13,	Jul-21	In-progress & continuous	
			20.2	Contact with underground services (electrocution/water leak/floods)	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Injury 2 Fatality 3 Severe injuries	1 Permit to work, 2 Scanning for underground services, 3 Access control, 4 Risk Assessment and Safe work procedures	5	B	II	Mostly effective	1 Use of updated drawings, 2 Supervision, 3 Service markers, 4 CAT Scan, 5 Excavation permit	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	OHS Act 85- Electrical Install Reg 5	Jul-21	In-progress & continuous	
			20.3	Access and egress	Safety	Employees Visitors People living with Disabilities	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Fatality, 2 Severe injuries	1 Provision of ramps and ladders for access, 2 Restricted access, signage 3 Risk Assessment and Safe work procedures	5	B	II	Mostly effective	1 Supervision, 2 Daily inspection, 3 Training and awareness - DSTI	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	SHE Spec Form 200- 202119 -59-70,	Jul-21	In-progress & continuous	
			20.4	Ingress of material	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Fatalities, 2 Severe injuries	1 Solid barricading 2 Restricted access, 3 Supervision, 4 Risk Assessment and Safe work procedures	4	B	III	Mostly effective	1 Proper housekeeping around excavation, 2 Supervision, Daily inspection	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	OHS Act85- CR 13,	Jul-21	In-progress & continuous	
			20.5	Ingress of water	Safety	Employees Breastfeeding Mothers Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Fatality, 2 Severe injuries	1 Battering and shoring, 2 Pumping of water, 3 Diversion of water, 4 Permit to work, 5 Daily inspection, 6 Risk Assessment and Safe work procedures	5	A	II	Mostly effective	1 Supervision, 2 Daily inspection, 3 Water resistant PPE, 4 Pumping of water	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	SHE Spec Form 200- 202119 -59-51,70, CR 26 GSR 13A	Jul-21	In-progress & continuous	
			20.6	Person(s) falling into	Safety	Employees Visitors People living with Disabilities	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Fatalities, 2 Severe injuries	1 Solid barricading 2 Restricted access, 3 Supervision, 4 Risk Assessment and Safe work procedures	5	B	II	Mostly effective	1 Supervision, 2 Training and awareness, 3 Warning signs	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	SHE Spec Form 200- 202119 -59-68 CR 10,	Jul-21	In-progress & continuous	
Supervision of concrete works	21	Sealing concrete/curing	21.1	Sprayed sealing compound	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	Injuries	1 Proper PPE 2 Standard Working Procedure implementation and enforcement 3 MSDS	4	B	II	Mostly effective	1 Supervision, 2 Training and awareness and PPE	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	OHS Act 85 -CR 20 CR 12 g	Jul-21	In-progress & continuous	
	22	Pumping Concrete, concrete pouring pipe, chute, dried up mortar	22.1	Concrete splashing from the end hose, and direct contact body parts with wet concrete,	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	Injuries	1 Appropriate PPE (RPE/FFP3 mask) to be supplied and worn as identified 2 Standard Working Procedure implementation and enforcement 3 MSDS 4 Risk assessment	4	B	II	Mostly effective	PPE to be issued, recorded, monitored and replaced where appropriate Training and awareness	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	OHS Act 85 -CR 20 CR 12 g	Jul-21	In-progress & continuous	
Project management and supervision of form-work and Support work	23	Structural Failure	23.1	Struck by flying objects	Safety	Employees Visitors People living with Disabilities	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Fatality, 2 Injuries	1 Competent erection, 2 Inspection of structure, 3 Approved design, 4 Training	5	B	II	Mostly effective	1 Approved building structure approved by relevant authorities	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	OHS Act 85 44, CR 11, 12, 16	Jul-21	In-progress & continuous	
	24	Scaffolding	24.1	Damaged scaffold material	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Fatality, 2 Injuries	1 Quality checks on scaffolding material, 2 Defective scaffolding material to be removed, 3 DSTI, 3 Supervision	6	B	I	Mostly effective	1 Strict enforcement	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	OHS Act 85 44, CR 11, 12, 16	Jul-21	In-progress & continuous	R 37 714
			24.2	Incorrect erection, dismantling or modification	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Fatality, 2 Injuries	1 Training, 2 Follow correct safe work procedures, 3 Competent erection 4 Inspections	5	B	II	Mostly effective	1 Strict enforcement 2 Toolbox and awareness	Audits Reports Inspections Reports Incidents Reports BBSOVFL	Departmental Managers & Employees		Jul-21	In-progress & continuous	
Movement of Mobile Construction Equipment, Plant and Vehicles	25	Mobile Construction Equipment, Plant and Vehicles	25.1	Pedestrian accidents/incidents	Safety	Employees People living with disabilities Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Fatality, 2 Injuries	1 Appointment of flagperson to control traffic 2 Traffic management plan 3 Segregation of work areas, 4 Reverse sirens on vehicles, 4 Pedestrian routes, 5 Road Signage 6 Competent operators	6	B	II	Mostly effective	1 Adherence to road road signage, 2 Visibility of construction vehicle, 3 Speed monitoring 4 SHE awareness campaigns, 5 Driver re-evaluation,	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	OHS Act 85 of 1993, - CR 23 GSR 13B, DVR 17 SHE Spec 200-202119 - 5949 National Road Traffic Act 93 of 1996	Jul-21	In-progress & continuous	R 37 717
			25.2	Vehicle driving into the structure	Safety	Employees People living with disabilities Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Fatality, 2 Injuries	1 Speed limit, 2 Signages, 3 Barricading 4 Appointment of flagpersons 5 Driver's license / authorization 6 Daily monitoring of substance abuse	5	A	II	Mostly effective	1 Flag person in position, 2 Driver permit, 3 Driver re-evaluation, 4 Coordination	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees		Jul-21	In-progress & continuous	
			25.3	Construction Vehicles Collision	Safety	Employees People living with disabilities Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Fatality 2 Severe injuries	1 Flag persons presence, 2 Adherence to road signage, 3 Barricading 4 Road planning 5 Supervision 6 Driver's license / authorization 7 Fatigue management plan	5	C	II	Mostly effective	1 Reversing alarms, 2 Amber lights, 3 Supervision 4 Switch on headlights, 5 Adequate road signage, 6 Work interface	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees		Jul-21	In-progress & continuous	
			25.4	Deviating from designated routes	Safety	Employees People living with disabilities Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Fatality	1 Flag persons presence, 2 Designated roads and signage, 3 Training 4 Clear instructions 5 Roadworthy certificate	5	A	II	Mostly effective	1 Road safety awareness 2 Roads to be maintained, 3 Brief on any road changes	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	SHE Spec 49 National Road Traffic Act 93 of 1996 CR 23	Jul-21	In-progress & continuous	



			25.5	Mechanical Failure/ poor maintenance	Safety	Employees People living with disabilities Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Fatality 2 Injuries	1. Periodical maintenance and service of vehicles. 2. Daily inspections 3. Competent and Certified mechanics 4. Use of original quality spares	5	B	II	Mostly effective	Audits and inspections 2. Awareness and Training	Audits Reports Inspectors Reports Incidents Reports	Departmental Managers & Employees		Jul-21	In-progress & continuous	
			25.6	Off-site vehicle accident	Safety	Employees General public People living with disabilities Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Fatalities 2 Severe injuries	1. Daily vehicle checklist. 2. Permission to leave site. 3. Headlights on. 4. Roadworthy certificates. 5. Driver's licence or Estom driver's permits. 5. Approved vehicles for construction site. 7. Medical fitness certificate	5	C	II	Mostly effective	1. Training and awareness on drive alive. 2. Adherence to road signage and rules. 3. Adherence to life saving rule No 3 (buckle up) and rule No 4 (Be sober)	Audits Reports Inspectors Reports Incidents Reports	Departmental Managers & Employees		Jul-21	In-progress & continuous	
			25.7	Unauthorised use	Safety	Employees People living with disabilities Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Fatalities 2 Severe injuries	1. Procedures, in place 2. Fleet management 3. Access control at the gate	5	C	II	Mostly effective	1. Driver permits. 2. Key control. 3. Drivers to sign log books	Audits Reports Inspectors Reports Incidents Reports	Departmental Managers & Employees	SHE Spec 49 National Road Traffic Act 93 of 1996 OHS Act 65 of 1993, CR 23 GSR 13B.	Jul-21	In-progress & continuous	
			25.8	Driver incompetency	Safety	Employees People living with disabilities Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Fatalities 2 Severe injuries	1. Driver permit system. 2. National valid driver's licence 3. Relevant training 4. Risk profile evaluations	6	B	I	Mostly effective	1. Driver competency evaluation	Audits Reports Inspectors Reports Incidents Reports	Departmental Managers & Employees		Jul-21	In-progress & continuous	R 37 713
			25.9	Poor road conditions	Safety	Employees People living with disabilities Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Severe injuries 2 Fatalities	1. Regular maintenance 2. Proper routes planning 3. Road inspections 4. Approved designs	4	B	III	Mostly effective	1. Avoiding roads with poor conditions	Audits Reports Inspectors Reports Incidents Reports	Departmental Managers & Employees		Jul-21	In-progress & continuous	
			25.10	Fire	Safety	Employees People living with disabilities Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Severe injuries 2 Fatalities	1. Regular maintenance 2. Reporting of any defects 3. Use of original parts for repairs	5	B	II	Mostly effective	1. Safe work procedure. 2. Maintenance program 3. Inspections	Audits Reports Inspectors Reports Incidents Reports	Departmental Managers & Employees		Jul-21	In-progress & continuous	
			25.11	Falling objects	Safety	Employees People living with disabilities Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Fatality 2 Severe injuries	1. Follow the correct loading procedure. 2. Competent persons. 3. Proper planning 4. Ensure loads are secured at all times 5. Using the correct equipment 6. Plant inspection and maintenance	5	B	II	Mostly effective	1. Training programmes and operator evaluation	Audits Reports Inspectors Reports Incidents Reports	Departmental Managers & Employees		Jul-21	In-progress & continuous	
Project management and supervision of electrical works	26	Electricity	26.1	Electrocution	Safety	Employees People living with disabilities Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Lost-time Injuries	1. Life saving rules (not) conformance. 2. Permit to work. 3. Lock out procedure	4	B	III	Mostly effective	1. Competent supervision, 2. Appropriate signage.	Audits Reports Inspectors Reports Plant Task Observations Incidents Reports	Departmental Managers & Employees	OHS Act 65, CR 24, GSR 9, Electrical Reg.	Jul-21	In-progress & continuous	
			26.2	Flash over	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Fatality	1. Permit to work. 2. RA and Safe work procedure. 3. Suitable training	5	B	II	Mostly effective	1. Competent and authorised person to work in area 2. Appropriate PPE.	Audits Reports Inspectors Reports Plant Task Observations Incidents Reports	Departmental Managers & Employees	OHS Act 65, SHE Spec 67, CR 24, GSR 9, Explosive Reg. Electrical Reg.	Jul-21	In-progress & continuous	
			26.3	Damaged cables	Safety	Employees People living with disabilities Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Lost-time Injuries	1. Bury cables. 2. Placements of cable covers. 3. Baricading	4	B	III	Mostly effective	1. Restrict access to area of work. 2. Warning signs	Audits Reports Inspectors Reports Plant Task Observations Incidents Reports	Departmental Managers & Employees	OHS Act 65, SHE Spec 67, CR 24, GSR 9, Explosive Reg. Electrical Reg.	Jul-21	In-progress & continuous	
			26.4	Arc Flash	Safety	Employees Expectant Females Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Lost-time Injuries	1. Access restricted/enclosed and locked 2. Permit to work and lock out system adhered to at all times. 3. Appropriate PPE	4	B	III	Mostly effective	1. Signage. 2. No unauthorised entry. 3. First aid treatment and procedure for electrical shock. 4. PSR and HV requirements adhered to	Audits Reports Inspectors Reports Plant Task Observations Incidents Reports	Departmental Managers & Employees	OHS Act 65, SHE Spec 67, CR 24, GSR 9, Explosive Reg. Electrical Reg.	Jul-21	In-progress & continuous	
			26.5	Exposed energized conductors	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Lost-time Injuries	1. Live conductors insulated. 2. Earthing done before works commences. 3. Permit and lock-out systems 4. Appropriate PPE	5	B	II	Mostly effective	1. Signage. 2. No unauthorised entry. 3. First aid treatment and procedure for electrical shock. 4. PSR and HV requirements adhered to 5. Awareness training	Audits Reports Inspectors Reports Plant Task Observations Incidents Reports	Departmental Managers & Employees	OHS Act 65, SHE Spec 67, CR 24, GSR 9, Explosive Reg. Electrical Reg.	Jul-21	In-progress & continuous	
			26.6	Testing of live connected cables to panel boards	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Lost-time Injuries	1. Live conductors insulated. 2. Earthing done before works commences. 3. Permit and lock-out systems 4. Appropriate PPE	4	B	III	Mostly effective	1. Discipline on non-conformance permit system 2. Adherence to PSR requirements and HV regulations	Audits Reports Inspectors Reports Plant Task Observations Incidents Reports	Departmental Managers & Employees	OHS Act 65, CR 24, SHE Spec 67, GSR 9 (3 a), Electrical Reg SAHS 10055-1	Jul-21	In-progress & continuous	
			26.7	Switching	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Lost-time Injuries	1. Thermal testing of possible "Hot Joints" 2. Fire extinguisher in place. 3. PTW	4	B	III	Mostly effective	1. Alertness by personnel at all times. 2. Adherence to PSR requirements and HV regulations	Audits Reports Inspectors Reports Plant Task Observations Incidents Reports	Departmental Managers & Employees		Jul-21	In-progress & continuous	
			26.8	Racking out circuit breakers	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Lost-time Injuries	1. Permit and lock out system to be adhered to at all times. 2. Appropriate PPE	4	B	III	Mostly effective	1. Alertness by personnel at all times. 2. Adherence to PSR requirements and HV regulations	Audits Reports Inspectors Reports Plant Task Observations Incidents Reports	Departmental Managers & Employees		Jul-21	In-progress & continuous	
			26.9	Replacing fuses	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Fatality 2 Injuries	1. Permit and lock out system to be adhered to at all times. 2. Appropriate PPE	5	B	II	Mostly effective	1. Alertness by personnel at all times. 2. Adherence to PSR requirements and HV regulations	Audits Reports Inspectors Reports Plant Task Observations Incidents Reports	Departmental Managers & Employees		Jul-21	In-progress & continuous	
			26.10	Fire	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Fatalities	1. Permit to work. 2. Restricted Access. 3. Isolation and earthing. 4. Competent authorised person to work 5. Supervision	5	B	II	Mostly effective	1. Competent supervision. 2. Appropriate signage.	Audits Reports Inspectors Reports Plant Task Observations Incidents Reports	Departmental Managers & Employees		Jul-21	In-progress & continuous	
Project management and supervision of hot work activities- Welding, Grinding and Cutting	27	Hot works Sparks	27.1	Fire/Explosion	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Fatalities 2 Serious Injuries 3 Property Damage	1. Welding screens. 2. Fire extinguisher. 3. Fire Blankets. 4. Fire watcher. 5. PPE 6. Hot works permits	5	B	II	Mostly effective	1. Emergency response plan 2. Competence supervision	Audits Reports Inspectors Reports Plant Task Observations Incidents Reports BBSO/VFL	Departmental Managers & Employees	OHS Act 65, GSR 9 a-b SHE spec Form 200- 207219-5559	Jul-21	In-progress & continuous	
			28	Defective Equipment	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Lost-time Injuries/Amputation.	1. Safe work procedure implementation and enforcement. 2. Supervision	4	B	III	Mostly effective	1. Pre-use inspections. 2. Maintenance procedures	Audits Reports Inspectors Reports Plant Task Observations Incidents Reports	Departmental Managers & Employees	OHS Act 65, GSR 9 a-b SHE spec Form 200- 207219-5559	Jul-21	In-progress & continuous	
			29	Incompetent employees	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Lost-time Injuries/Amputation and Fatality	1. Training. 2. Supervision	5	A	II	Mostly effective	1. Training 2. Supervision 3. Awareness	Audits Reports Inspectors Reports Plant Task Observations Incidents Reports	Departmental Managers & Employees	OHS Act 65, GSR 9, SHE spec Form 200- 207219-59	Jul-21	In-progress & continuous	
Use of compressed Air/ Argon Gas Cylinders	30	Compressed Gas Cylinder	30.1	Gas Leak/Explosion	Safety	Employees Visitors Expecting mothers	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Fatalities. 2 Injuries	1. Leakage test done 2. MSDS to be in place 3. Proper storage and handling of gas cylinders as per MSDS	5	B	II	Mostly effective	1. Pre use inspection. 2. Proper storage	Audits Reports Inspectors Reports Plant Task Observations Incidents Reports	Departmental Managers & Employees	SHE spec Form 200- 207219-55 CR 21, Pressure Equipment Reg 6.6.10.11.12.13	Jul-21	In-progress & continuous	
			31	Hazardous Chemical Substances (refer to the Health Risk Assessment Report for the nature of chemicals)	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Fatality 2 Injuries	1. Proper chemical storage 2. Proper chemical labeling and marking 3. MSDSs 4. Natural ventilation	5	C	II	Mostly effective	1. Safe work procedure. 2. Training and awareness, 3. Proper signage. 4. Proper Storage. 5. Fire control systems	Audits Reports Inspectors Reports Plant Task Observations Incidents Reports	Departmental Managers & Employees	SHE spec Form 200- 207219-57 Hazardous Chem Sub Reg	Jul-21	In-progress & continuous	
Use of Hazardous Chemical Substances			32.2	Burns	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Injuries.	1. Proper chemical storage 2. Proper chemical labeling and marking 3. MSDSs 4. Natural ventilation	4	A	III	Mostly effective	1. Training and awareness. 2. Proper handling. 3. Provision and use of correct PPE	Audits Reports Inspectors Reports Plant Task Observations Incidents Reports	Departmental Managers & Employees		Jul-21	In-progress & continuous	
			32	Pedestrians	Safety	Employees People living with disability Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Lost-time Injuries	1. Reflective clothing. 2. Designated walkways. 3. Demarcation of pedestrian routes. 4. Maintenance of pedestrian routes	4	C	II	Mostly effective	1. PPE Requirements. 2. Awareness Campaigns. 3. Traffic Management Plan 4. Warning Systems installed in vehicles	Audits Reports Inspectors Reports Incidents Reports	Departmental Managers & Employees	OHS Act 65 of 1993, GAR 8, GSR 2, SHE spec Form 200- 207219-23-27	Jul-21	In-progress & continuous	
Pedestrians walking onsite			33.2	Slip, Trip and Falls	Safety	Employees People living with disability Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Lost-time Injuries	1. Good house keeping practices. 2. Housekeeping plan 3. Training and awareness	4	C	II	Mostly effective	1. Segregated walkways. 2. Signage 3. Inspections 4. Proper PPE (safety boots)	Audits Reports Inspectors Reports Incidents Reports	Departmental Managers & Employees	OHS Act 65 of 1993, GAR, GSR 2, SHE spec Form 200- 207219-23-27 CR 27, EMV Reg 6,	Jul-21	In-progress & continuous	
			33.3	Adjacent Works	Safety	Employees People living with disability Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Lost-time Injuries	1. Baricading of work areas. 2. Road monitoring plan	4	A	III	Mostly effective	1. Access control. 2. Signage 3. Proper PPE (safety boots)	Audits Reports Inspectors Reports Incidents Reports	Departmental Managers & Employees		Jul-21	In-progress & continuous	
			33.4	Struck by falling objects	Safety	Employees People living with disability Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Lost-time Injuries	1. Good house keeping practices. 2. Safety Zones 3. Integration	4	B	III	Mostly effective	1. Proper housekeeping 2. Awareness	Audits Reports Inspectors Reports Incidents Reports	Departmental Managers & Employees		Jul-21	In-progress & continuous	
			33.5	Unauthorised access/areas	Safety	Employees Expectant Females People living with disability Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Lost-time Injuries	1. Site rules for accessing site and work areas. 2. Baricading of work areas 3. Warning signs	4	B	III	Mostly effective	1. Access permits granted to authorised personnel only. 2. Awareness	Audits Reports Inspectors Reports Incidents Reports	Departmental Managers & Employees		Jul-21	In-progress & continuous	
			33	Poor housekeeping	Safety	Employees Expectant Females People living with disability Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Lost-time Injuries.	1. Good house keeping practices/procedure. 2. Supervision	4	C	II	Mostly effective	Training and Awareness	Audits Reports Inspectors Reports Incidents Reports	Departmental Managers & Employees	OHS Act 65 of 1993, GSR 2B, SHE spec Form 200- 207219-50, 64 CR 27, EMV Reg 6,	Jul-21	In-progress & continuous	
Housekeeping			34.2	Fire	Safety	Employees Expectant Females People living with disability Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	Fatality	1. Good house keeping practices/procedure. 2. Supervision	5	B	II	Mostly effective	Training and Awareness	Audits Reports Inspectors Reports Incidents Reports	Departmental Managers & Employees		Jul-21	In-progress & continuous	
			34.3	Falling objects	Safety	Employees Expectant Females People living with disability Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Lost-time Injuries.	1. Good house keeping practices/procedure. 2. Supervision	4	C	II	Mostly effective	Training and Awareness	Audits Reports Inspectors Reports Incidents Reports	Departmental Managers & Employees		Jul-21	In-progress & continuous	
Manual handling			34.4	Obstructed emergency routes/work ways	Safety	Employees Expectant Females People living with disability Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Lost-time Injuries.	1. Good house keeping practices/procedure. 2. Supervision	4	C	II	Mostly effective	Training and Awareness	Audits Reports Inspectors Reports Incidents Reports	Departmental Managers & Employees		Jul-21	In-progress & continuous	
			34	Sharp Edges	Safety	Employees People living with disability Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	1 Lost-time Injuries.	1. PPE. 2. Training and awareness. 3. Guarding/covering of sharp edges	3	B	III	Mostly effective	1. Removal of sharp edges when it is reasonable practical	Audits Reports Inspectors Reports Incidents Reports	Departmental Managers & Employees	OHS Act 65 of 1993, CR 2B, DVR 18, Estom Standard 39-58	Jul-21	In-progress & continuous	



	35	Heavy materials	36.1	Muscle and Bones strains (Hands and spinal)	Safety	Employees (Expectant Females People living with disability Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 5hrs	1. Lost-time Injuries.	1. Lifting equipment 2. Method statements and Risk assessment 3. Equipment labeling (weights) 4. Training and awareness	4	B	II	Mostly effective	1. Plans works for moving equipments	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees		Jul-21	In-progress & continuous	
Use of tools and Equipment (Electrical, Pneumatic and Hydraulic, Brouse Trucks)	36	Tools and Equipment	37.1	Unguarded moving parts	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 5hrs	1. Lost-time Injuries.	1. Training Programs, 2. Pre use inspection, 3. Warning Signs.	4	B	II	Mostly effective	1. Maintenance 2. Communication and awareness 3. Warning Signs.	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	OHS Act 65 of 1993, GMR 3 SHE Spec 57	Jul-21	In-progress & continuous	
			37.2	Electric Shock	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 5hrs	1. Fatality, 2. Injuries	1. Supervision, 2. Training programmes, 3. Warning Signs, 4. Pre-use inspection, 5. Communication and awareness	5	C	II	Mostly effective	1. Risk Assessment and SWP 2. Tools register 3. Maintenance on tools and equipment 4. Communication and awareness	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	Exec Installation Reg SANS 10059-1	Jul-21	In-progress & continuous	
			37.3	Loose Clothing	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 5hrs	1. Lost-time Injuries.	1. Supervision, 2. Training programmes, 3. Warning Signs, 4. Correct PPE usage	4	B	II	Mostly effective	1. Risk Assessment and SWP 2. Communication and awareness	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	OHS Act 65 of 1993 sec 12 GSR 2	Jul-21	In-progress & continuous	
			37.4	Unauthorised use	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 5hrs	1. Lost-time Injuries.	1. Supervision, 2. Training programmes, 3. Warning Signs, 4. Planning for tasks in advance 5. Lock-out system in place	4	B	II	Mostly effective	1. Risk Assessment and SWP 2. Communication and awareness	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	OHS Act 65 of 1993 sec 6 (f) SHE Spec 57	Jul-21	In-progress & continuous	
			37.5	Incorrect storage (grinder wheels/disc)	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 5hrs	1. Lost-time Injuries.	1. Supervision, 2. Training programmes, 3. Develop and implement storage procedure	4	B	II	Mostly effective	1. Risk Assessment and SWP 2. Communication and awareness, 3. Tools register	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	OHS Act 65 of 1993 GSR 9(a) HCS Reg 10 (f)	Jul-21	In-progress & continuous	
			37.6	Use of incorrect tools (Grinder disc)	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 5hrs	1. Lost-time Injuries.	1. Supervision, 2. Training programmes, 3. Warning Signs, 4. Provision of correct tools, 5. Conduct Daily Site Task Instruction before start with activity	4	B	II	Mostly effective	1. Risk Assessment and SWP 2. Communication and awareness, 3. Tools register 4. Pre-use inspection	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	OHS Act 65 of 1993 sec 8 (f), GSR 9 (a)	Jul-21	In-progress & continuous	
Performing commissioning activities	37	Interface between construction and commissioning	38.1	Unauthorised access, Plant and human interface, Automated stop/start	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 5hrs	1. Lost-time Injuries.	Post warning signs	4	B	II	Mostly effective	Maintenance of warning signs	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	Plant Safety Reg 36-681 OSH Act (CR 24, Esikom Standard 240- G116027	Jul-21	In-progress & continuous	
			38.2	Loose materials lying around	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 5hrs	Lost-time Injuries	Good housekeeping	4	B	II	Mostly effective	1. Enforcement of good housekeeping 2. Site inspection	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	CR 28 CR 27 Env Reg 6 (1)	Jul-21	In-progress & continuous	
			38.3	Unclear indicated emergency escape routes	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 5hrs	1. Fatality 2. Lost-time Injuries	Adequate signage to be put in place	5	B	II	Mostly effective	Signage and training	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	CR 29 (K)	Jul-21	In-progress & continuous	
			38.4	Inadequate lock-out systems	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 5hrs	1. Fatalities 2. Lost-time Injuries,	Maintain a proper lock-out system	5	B	II	Mostly effective	Training and lock-out system	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	Plant Safety Reg 36-681 OSH Act, CR 24, Esikom Standard 240- G116027	Jul-21	In-progress & continuous	
			38.5	Plant and equipment failure	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 5hrs	Fatality	1. Training and skill development	5	B	II	Mostly effective	Training and procedures	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees		Jul-21	In-progress & continuous	
			38.6	Poor lighting	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 5hrs	1. Fatalities 2. Lost-time Injuries.	1. Warning signs in place	4	B	II	Mostly effective	awareness	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	Env Reg 5	Jul-21	In-progress & continuous	
Working in or close to Live Plant and Equipment	38	Energized Plant and Equipment	39.1	Unauthorised access to energized plant and equipment	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 5hrs	1. Fatality 2. Lost-time Injuries.	1. Permit to work system 2. OEM Guidelines	6	B	II	Mostly effective	Permit system	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	OHS Act 65 of 1993 Electrical Installation Regulations CR 24 e, d SHE Spec 67	Jul-21	In-progress & continuous	R 37 715
			39.2	Poor communication during commissioning and testing processes	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 5hrs	1. Lost-time Injuries, 2. Fatality	1. Permit to work system 2. OEM Guidelines	5	B	II	Mostly effective	Radio communication Permit to work	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees		Jul-21	In-progress & continuous	
			39	Use vacuum trucks at DHP	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 5hrs	1. Lost time injuries	Dust suppression and continuous road cleaning will be on- going	6	B	II	Mostly effective	driver competency, respirators to be issued and used	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees		Jul-21	In-progress & continuous	R 37 717
Working close to overhead power lines	40	Overhead power lines	41.1	No height restriction goal posts	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 5hrs	1. Lost-time Injuries.	1. RA & SWP, 2. Supervision, 3. Training Programme, 4. Conducting regular visual inspections, 5. Assessment of height restrictions prior loading 6. Solid height restriction barriers	4	C	II	Mostly effective	1. Communication and awareness, 2. Site overhead lines designed layout	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	SANS 10200 Gen Machinery Reg. 2 (5) SHE spec Form 200- 207219 33	Jul-21	In-progress & continuous	
			41.2	Crane/trucks booms/truckets not lowered	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 5hrs	1. Lost-time Injuries.	1. RA & SWP, 2. Supervision, 3. Training Programme, 4. Regular maintenance and servicing of plant, 5. Conduct daily site task instruction (DSTI) before starting any activity.	4	B	II	Mostly effective	1. Communication and awareness, 2. Conduct pre-start daily inspections on all plant and machinery	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees		Jul-21	In-progress & continuous	
			41.3	Working with machinery close to under overheadlines	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 5hrs	1. Fatality 2. Lost-time Injuries	1. RA & SWP, 2. Supervision, 3. Regular maintenance and servicing of plant, 4. Permit to work system 5. Daily Site Task Instruction (DSTI) conducted and communicated 6. Competent operators	5	B	II	Mostly effective	1. Communication and awareness, 2. Conduct pre-start daily inspections on all plant and machinery, 3. Training Programme,	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees		Jul-21	In-progress & continuous	
Walkways	41	Gratings	42.1	Unsecure and uneven gratings	Safety	Employees Visitors People living with Disabilities	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 5hrs	Lost time injuries	1. Maintenance plan 2. Inspection schedule 3. Supervision, 4. Training Programme, 5. Communication and awareness.	4	C	II	Mostly effective	1. Risk Assessment and SWP 2. Proper PPE	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	SHE Spec 50, GSR Environ Reg for workplaces (d)	Jul-21	In-progress & continuous	
Demobilisation due to project completion	42	Demobilisation	43.1	Demoralisation, depression (safety/Health)	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 5hrs	Lost time injuries	1. Demob plan and strategy in place 2. Demob plan communicated with employees in advance 3. Training programmes to equip employees with skills for after demob 4. Provide counseling and Psychological support	4	B	II	Mostly effective	1. Communication and awareness, 2. Risk Assessment and SWP 3. Consultation with Unions and shopstewards 4. Training on financial management	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	OHS Act 65 of 1993 sec 13 & 26 Basic Conditions of employment Act, The Constitution of the Republic of South Africa	Jul-21	In-progress & continuous	
			43.2	Increased incidents	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 5hrs	Lost time injuries	1. Demob plan and strategy in place 2. Demob plan communicated with employees in advance 3. Job observation in place 4. Close supervision at all times 5. Offer counseling and Psychological support to demoralised employees	4	B	II	Mostly effective	1. Communication and awareness, 2. Risk Assessment and SWP 3. Training on financial management	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees		Jul-21	In-progress & continuous	
			43.3	Industrial instability (Protest/Strike action)	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 5hrs	1. Fatality 2. Injuries	1. Demob plan and strategy in place 2. Demob plan communicated with employees in advance 3. Training programmes to equip employees with skills for after demob 4. Fair demob practices 5. Consultation with Unions and shopstewards	5	C	II	Mostly effective	1. Communication and awareness, 2. Risk Assessment and SWP 3. Training programmes to equip employees with skills for after demob	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees		Jul-21	In-progress & continuous	
			43.4	Project delays (work stoppage)	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 5hrs	Lost time injuries	1. Demob plan and strategy in place 2. Competent core teams for remaining activities 3. Fair demob practices 4. Consultation with Unions and shopstewards	4	B	II	Mostly effective	1. Communication and awareness, 2. Risk Assessment and SWP 3. Demob plan communicated with employees in advance 4. Training on financial management	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees		Jul-21	In-progress & continuous	
Transportation	43	Local taxi association	44.1	1. Denied access to work 2. Industrial instability 3. Project delays (work stoppage)	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 5hrs	Property damage	1. Enforce compliance to legislation 2. Communication 3. Proper procurement processes	5	C	II	Mostly effective	1. Induction 2. Awareness	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	National Road Act 93 of 1996 Provincial and Municipal By -laws	Jul-21	In-progress & continuous	
Maintenance/ fixing defects	44	Fixing defects/ Maintenance operations	45.1	Working with live equipment, exposure to heat/ steam leaks	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 5hrs	Lost time injuries	1. Permit to work system 2. Risk Assessment and SWP 3. Area barricading	6	C	II	Mostly effective	1. Toolbox talks and awareness	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	Plant Safety Reg OHS Act 5 of 1993 and its Regulations	Jul-21	In-progress & continuous	R 37 718
Outage (Mechanical, Electrical, Civil and C&I works)	45	Equipment and tools	46.1	Falling equipment, Pinch points, slip, trip and fall	Safety	Employees Visitors	Authorise Responsible Person (RP) Responsible managers Responsible supervisor	Daily 24hrs	Lost time injuries	1. Segregation of materials 2. Good housekeeping 3. Proper Barricade	2	D	II	Mostly effective	Supervision Encourage continuous housekeeping on every shift	Site inspection report Incident report	Departmental Managers & Employees	Plant Safety Reg OHS Act 5 of 1993 and its Regulations Esikom Outage procedure	Jul-21	In-progress & continuous	
			47.1	Slip, trip and fall	Safety	Employees Visitors	Authorise Responsible Person (RP) Responsible managers Responsible supervisor	Daily 24hrs	Lost time injuries	1. Connect temporary lighting	5	B	II	Mostly effective	Supervision RP and Supervisor to ensure that there is sufficient lighting before allowing the workers entering the boiler	Site inspection report Incident report	Departmental Managers & Employees		Jul-21	In-progress & continuous	
			48.1	Incompetent person using grinder	Safety	Employees Visitors	Authorise Responsible Person (RP) Responsible managers Responsible supervisor	Daily 24hrs	Lost time injuries	1. Provide training employees 2. Only competent person to use the portable grinder or drills	5	B	II	Mostly effective	Only trained and competent personnel to be allowed to use the portable grinder or drill	Site inspection report Incident report	Departmental Managers & Employees		Jul-21	In-progress & continuous	
Site De-establishment	48	Electrical points not de-energized before disconnecting supply ports (Lock-out permit etc)	49.1	Employees can come into contact with live electrical points	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 5hrs	Lost time injuries	1. Legislation, 2. Training, 3. Supervision, 4. Procedures, 5. SHE specification	5	C	II	Mostly effective	1. Risk Assessment and SWP	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	OHS Act 65 OF 1994 GSR 1-4 Hse Chem Sub 10-15 Env Reg for Workplaces	Jul-21	In-progress & continuous	
			50.1	Unsafe methods utilized for the loading and offloading of office buildings, parkhomes for removal from current site to a new site	Safety	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible)	Daily 5hrs	Lost time injuries	1. Legislation, 2. Rigging study, 3. Training, Supervision, 4. Procedures, 5. Method statements, 6. SHE specification	5	C	II	Mostly effective	1. Risk Assessment and SWP	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees		Jul-21	In-progress & continuous	



Outbreak of the Coronavirus (COVID-19)	50	Outbreak of the coronavirus	51.1	(a) Potential Unavailability of Critical Staff	Health	Employees Visitors Expectant mothers	DR Penny Mualpe	Multiple fatalities	(a) Continuous information sharing (Around Personal Hygiene) (b) Details regarding the virus, and Awareness (c) Vaccine being tested by World Health Organisation (WHO) (d) Implementation of the Department of Health Standard Operating procedure (e) Internal Pandemic Plan (Contingency plans) (f) Ongoing internal Comms regarding the Coronavirus	6	E		Mostly effective	(a) Develop a exposure screening questionnaire (b) Planned Screening through body temperature ure screening (c) In the event that a case suspected there will be referrals as per Department of Health Standard Operating Procedure (d) Utilisation of the current Eskom staff such as (Security, Occupational Health and Safety) (e) Continuous awareness through information sharing (f) All Eskom traveling and in contact with Expatriates to contact the medical center prior to travelling (g) Development of Eskom Standard Operating Procedure	Audits Reports Inspections Reports Incidents Reports	DR Penny Mualpe	Occupational health and safety measures in workplaces (COVID-19) (C19 OHS), Disaster Management Regulation Workplace Protective measures to be taken during the COVID 19 outbreak for GCD workplaces 240-155316509	Ongoing as this is currently an Outbreak	Ongoing as this is currently an Outbreak	R 38 800
	51	(a) Outbreak of the coronavirus (b) Unavailability of designated medical facilities (ambulance/clinic) to control contagious diseases	52.1	(a) Potential productivity loss (b) Increased sick leave (minimum 14 days quarantine) (c) Potential Unavailability of Critical Staff	Health	Employees Visitors	Medupi Project GM(Acting)	Fatalities,LTIs	(a) Continuous information sharing (Around Personal Hygiene) (b) Details regarding the virus, and Awareness (c) Vaccine being tested by World Health Organisation (WHO) (d) Implementation of the Department of Health Standard Operating procedure (e) Internal Pandemic Plan (Contingency plans) (f) Ongoing internal Comms regarding the Coronavirus	5	D		Mostly effective	(a) ongoing awareness through information sharing (b) Suspect will be kept in isolation room at onsite clinic until referral to nearest hospital (c) Appropriate clothing shall be worn by all involved in taking care of suspect - paramedics and OHP (d) In the event that a case suspected there will be referrals as per Department of Health Standard Operating Procedure (e) Strict health and hygiene measures shall be followed at all times	Audits Reports Inspections Reports Incidents Reports	Medupi Project GM(Acting)		Ongoing as this is currently an Outbreak	Ongoing as this is currently an Outbreak	R 38 881
	All activities on site	52	Outbreak of the coronavirus	53.1	(a) Coronavirus (b) human to human transmission (Contagious flu like virus)	Health	Employees, Contractor employees, Visitors, Members of the public	DR Penny Mualpe Occ Health Practitioner	(1) Potential productivity loss (2) Increased sick leave (minimum 14 days quarantine) (3) Potential Unavailability of Critical Staff (4) Potential deaths (direct impact on Eskom employees or fatalities)	(a) Develop a exposure screening questionnaire (b) Planned Screening through body temperature ure screening (c) In the event that a case suspected there will be referrals as per Department of Health Standard Operating Procedure (d) Utilisation of the current Eskom staff such as (Security, Occupational Health and Safety) (e) Continuous awareness through information sharing (f) All Eskom traveling and in contact with Expatriates to contact the medical center prior to travelling (g) Development of Eskom Standard Operating Procedure	6	E		Mostly effective	(a) ongoing awareness through information sharing (b) Suspect will be kept in isolation room at onsite clinic until referral to nearest hospital (c) Appropriate clothing shall be worn by all involved in taking care of suspect - paramedics and OHP (d) In the event that a case suspected there will be referrals as per Department of Health Standard Operating Procedure (e) Strict health and hygiene measures shall be followed at all times	Conducting VFLs,Site Inspection	DR Penny Mualpe		Ongoing as this is currently an Outbreak	In Progress
			53.2	Human droplets transmission through finger at biometric gate system (Access gates)	Health	Employees, Contractor employees, Visitors, Members of the public	Medupi Project GM (Acting) Occ Health Practitioner	(1) Potential productivity loss (2) Increased sick leave (minimum 14 days quarantine) (3) Potential Unavailability of Critical Staff (4) Wide spread of the virus (5) Death	1. Biometric finger option disabled 2. Employees and contractors to report immediately to Lephalela Hospital or nearest medical facility if they suspect any symptoms 3. Access control in place, employees and visitors are screened prior to coming to site - screening station and scanners at all gates 4. Isolation room identified at the clinic (Doctor's Room) as well as galleys 5. 100% masks and surgical masks provided and available to use in case of a suspect 6. Disposable hand sanitiser for Paramedics Team on site in	2	E	II	Mostly effective	1. Employees encouraged and advised to wash hands thoroughly several times a day 2. Only use one's own eating utensils and wash them oneself 3. No close contact with anyone with any form of respiratory infection 4. Avoid touching face, eyes, ears, nose, mouth with unwashed hands 5. Frequently disinfect surfaces such as desktop, mouse, keyboard, cell phone, chairs, benches	Conducting VFLs,Site Inspection	Medupi Project GM (Acting)		Ongoing as this is currently an Outbreak	In Progress	R 38 881
			53.3	Human to human droplets transmission - direct on the face	Health	Employees, Contractor employees, Visitors, Members of the public	Medupi Project GM (Acting) Occ Health Practitioner	(1) Employees contracting virus and being sick (2) Increased sick leave (3) Loss of productivity	(1) Biometric finger option disabled (2) Only card is used to control access, doesn't have to touch the machine (3) Provision of sanitiser at the gates especially turnstiles on both ends	2	E	II	Fully effective	1. Employees encouraged and advised to wash hands thoroughly several times a day 2. Only use one's own eating utensils and wash them oneself 3. No close contact with anyone with any form of respiratory infection 4. Avoid touching face, eyes, ears, nose, mouth with unwashed hands	Conducting VFLs,Site Inspection	Medupi Project GM (Acting)		Ongoing as this is currently an Outbreak	In Progress	R 38 881
			53.4	Human droplets transmission on surfaces (Entrances, Permit office, offices)	Health	Employees, Contractor employees, Visitors, Members of the public	Medupi Project GM (Acting) Occ Health Practitioner	(1) Employees contracting virus and being sick (2) Increased sick leave (3) Loss of productivity	(1) All employees should wear face masks at all times (2) Social distancing should be maintained by all employees (3) Ongoing awareness on measures of prevention (4) Sanitiser placed at all entrances (everyone entering to sanitise)	1	E	III	Fully effective	1. Employees encouraged and advised to wash hands thoroughly several times a day 2. Only use one's own eating utensils and wash them oneself 3. No close contact with anyone with any form of respiratory infection 4. Avoid touching face, eyes, ears, nose, mouth with unwashed hands	Conducting VFLs,Site Inspection	Medupi Project GM (Acting)		Ongoing as this is currently an Outbreak	In Progress	
			53.5	Human droplets transmission - droplets on surfaces inside buses and taxi (commuting to and from work)	Health	Employees, Contractor employees, Visitors, Members of the public	Medupi Project GM (Acting) Occ Health Practitioner	(1) Employees contracting virus and being sick (2) Increased sick leave (3) Loss of productivity	(1) Driver should clean and sanitise the vehicle before collecting passengers and after disembarking (2) Sanitiser to be available for use by the passengers (3) All passengers are to wear masks throughout the journey- no mask no entry (4) During transportation a 70% loading capacity must be adhered to (5) Ongoing awareness posted on buses including policy, symptoms, and a 911 hotline numbers	2	E	II	Fully effective	1. Employees encouraged and advised to wash hands thoroughly several times a day 2. Only use one's own eating utensils and wash them oneself 3. No close contact with anyone with any form of respiratory infection 4. Avoid touching face, eyes, ears, nose, mouth with unwashed hands 5. Frequently disinfect surfaces such as desktop, mouse, keyboard, cell phone, chairs, benches	Conducting VFLs,Site Inspection	Medupi Project GM (Acting)		Ongoing as this is currently an Outbreak	In Progress	R 38 881
			53.6	Human to human transmission - droplets on surfaces shared in the kitchen utensils	Health	Employees, Contractor employees, Visitors, Members of the public	Medupi Project GM (Acting) Occ Health Practitioner	(1) Employees contracting virus and being sick (2) Increased sick leave (3) Loss of productivity	(1) Shared kitchen equipment should be regularly cleaned (2) Employees advised not to share utensils - plates, cups, spoon	2	E	II	Fully effective	1. Employees encouraged and advised to wash hands thoroughly several times a day 2. Only use one's own eating utensils and wash them oneself 3. No close contact with anyone with any form of respiratory infection 4. Avoid touching face, eyes, ears, nose, mouth with unwashed hands	Conducting VFLs,Site Inspection	Medupi Project GM (Acting)		Ongoing as this is currently an Outbreak	In Progress	
			53.7	Human to human transmission - droplets on surfaces (Pool vehicles)	Health	Employees, Contractor employees, Visitors, Members of the public	Medupi Project GM (Acting) Occ Health Practitioner	(1) Employees contracting virus and being sick (2) Increased sick leave (3) Loss of productivity	(1) Driver should clean and sanitise the vehicle before collecting passengers and after disembarking (2) Sanitiser to be available for use by the passengers (3) All passengers are to wear masks throughout the journey- no mask no entry (4) During transportation a 70% loading capacity must be adhered to (5) Ongoing awareness posted on buses including policy	1	E	III	Fully effective	1. Employees encouraged and advised to wash hands thoroughly several times a day 2. Only use one's own eating utensils and wash them oneself 3. No close contact with anyone with any form of respiratory infection 4. Avoid touching face, eyes, ears, nose, mouth with unwashed hands 5. Frequently disinfect surfaces such as desktop, mouse, keyboard, cell phone, chairs, benches	Conducting VFLs,Site Inspection	Medupi Project GM (Acting)		Ongoing as this is currently an Outbreak	In Progress	
			53.8	Ablution Facilities	Health	Employees, Contractor employees, Visitors,	Medupi Project GM (Acting) Occ Health Practitioner	(1) Employees contracting virus and being sick (2) Increased sick leave (3) Loss of productivity	1. Sanitiser available for use 2. Wearing of face masks at all times 3. Maintaining social distancing 4. Practice Hygiene at all times (Soap and water for washing hands/sanitiser for disinfecting toilets/seats)	2	E	II	Fully effective	1. Employees encouraged and advised to wash hands thoroughly several times a day 2. Only use one's own eating utensils and wash them oneself 3. No close contact with anyone with any form of respiratory infection 4. Avoid touching face, eyes, ears, nose, mouth with unwashed hands 5. Frequently disinfect surfaces such as desktop, mouse, keyboard, cell phone, chairs, benches	Conducting VFLs,Site Inspection	Medupi Project GM (Acting)		Ongoing as this is currently an Outbreak	In Progress	
			53.9	Canteen	Health	Employees, Contractor employees, Visitors,	Medupi Project GM (Acting) Occ Health Practitioner	(1) Employees contracting virus and being sick (2) Increased sick leave (3) Loss of productivity	1. Sanitiser available for use 2. Wearing of face masks at all times 3. Seating arrangements to accommodate social distancing (1.5 m apart)	2	E	II	Fully effective	1. Employees encouraged and advised to wash hands thoroughly several times a day 2. Only use one's own eating utensils and wash them oneself 3. No close contact with anyone with any form of respiratory infection 4. Avoid touching face, eyes, ears, nose, mouth with unwashed hands 5. Frequently disinfect surfaces such as desktop, mouse, keyboard, cell phone, chairs, benches	Conducting VFLs,Site Inspection	Medupi Project GM (Acting)		Ongoing as this is currently an Outbreak	In Progress	
			53.10	Lack of personal hygiene	Health	Employees, Contractor employees, Visitors, Members of the public	Medupi Project GM (Acting) Occ Health Practitioner	(1) Employees contracting virus and being sick (2) Increased sick leave (3) Loss of productivity	1. Social distance maintained 2. Tables and chairs sanitized 3. Security to monitor each eating facility to enforce strict compliance to COVID 19 measures	2	E	II	Fully effective	1. Employees encouraged and advised to wash hands thoroughly several times a day 2. Only use one's own eating utensils and wash them oneself 3. No close contact with anyone with any form of respiratory infection 4. Avoid touching face, eyes, ears, nose, mouth with unwashed hands 5. Frequently disinfect surfaces such as desktop, mouse, keyboard, cell phone, chairs, benches	Conducting VFLs,Site Inspection	Medupi Project GM (Acting)		Ongoing as this is currently an Outbreak	In Progress	
			53.11	1) Employee returning to site 2) Employees from the risk areas 3) Employees exposed during traveling	Health	Employees, Contractor employees, Visitors, Members of the public	Medupi Project GM (Acting) Occ Health Practitioner	(1) Employees contracting virus and being sick (2) Increased sick leave (3) Loss of productivity	1) Ongoing awareness on personal hygiene including regular washing of hands with soap and water	2	E	II	Fully effective	1. Employees encouraged and advised to wash hands thoroughly several times a day 2. Only use one's own eating utensils and wash them oneself 3. No close contact with anyone with any form of respiratory infection 4. Avoid touching face, eyes, ears, nose, mouth with unwashed hands 5. Frequently disinfect surfaces such as desktop, mouse, keyboard, cell phone, chairs, benches	Conducting VFLs,Site Inspection	Medupi Project GM (Acting)		Ongoing as this is currently an Outbreak	In Progress	
Outage (Mechanical, Electrical, Civil and C&I works)	53	High temperature inside the boiler	54.1	Sweating, dizziness	Health	Employees Contractor employees, Visitors,	Medupi Project GM (Acting) Occ Health Practitioner	(1) Employees contracting virus and being sick (2) Increased sick leave (3) Loss of productivity	(1) All employees classified as vulnerable are restricted to work from home. Procedure 240-15532618 to be followed	2	E	II	Fully effective	1. Employees encouraged and advised to wash hands thoroughly several times a day 2. Only use one's own eating utensils and wash them oneself 3. No close contact with anyone with any form of respiratory infection 4. Avoid touching face, eyes, ears, nose, mouth with unwashed hands	Conducting VFLs,Site Inspection	Medupi Project GM (Acting)		Ongoing as this is currently an Outbreak	In Progress	
	54	Coming into contact with hot surface	55.1	Burns, bruises, sprains, fractures	Health	Employees Contractor employees, Visitors,	Medupi Project GM (Acting) Occ Health Practitioner	(1) Burn injuries to employees (2) Damage to property	(1) No sanitiser should be available or used where there is a risk of fire (2) Ongoing supervision	4	A	III	Mostly effective	RP and Supervisor/Team leader to ensure that correct plant has being isolated	Site inspection report Incident report	Departmental Managers & Employees		In-progress & continuous		
	55	Direct eye contact with arc welding	56.1	Loss of eye vision	Health	Employees Visitors	Medupi Project GM (Acting) Occ Health Practitioner	(1) Burn injuries to employees (2) Damage to property	1. Correct welding or cutting PPE to be worn (Welding helmet, gloves, and apron)	4	E		Mostly effective	The boilermaker or welder to have the correct welding PPE before starting with the works	Site inspection report Incident report	Departmental Managers & Employees		In-progress & continuous	R 3 882	
Project management and supervision of welding activities	56	Fumes and gases generated during welding activities	57.1	Acute or Chronic Respiratory tract diseases	Health	Employees Visitors	Responsible Functional Managers (accountable) & Employees (responsible) Occupational Hygienist	Metal Fume Fever LTI	1. Training & awareness 2. Occupational Health & Hygiene Inspection/survey	4	D		Mostly effective	Supervision Training & Awareness Risk assessment Hazardous Chemical Substances assessment, Engineering Controls and Respiratory Protection Equipment Medical examination	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & employees	OHS Act 85 of 1995 and its Regulations Occupational Hygiene Program 200-93129	Jul-21	In-progress & continuous	R 3 883



Project management & supervision of welding activities in confined spaces, with insufficient ventilation	57	Excessive fumes and gases generated during the welding activities	58.1	Acute or Chronic Respiratory tract diseases	Health	Employees Visitors	Occupational Health Practitioner Occupational Hygienist Responsible Functional Managers (accountable) & Employees (responsible)	Daily 3 hrs	Chemical Asphyxiation Metal Fume Fever Medical treatment and Dizziness	1. Training & awareness, 2. Occupational Health & Hygiene Inspection/survey.	4	B	II	Mostly effective	Legislation Supervision Training & Awareness Health Risk Assessment, Occupational Hygiene Inspections Hazardous chemical substances assessment, Engineering controls and Respiratory Protection Equipment Medical Surveillance.	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & employees	OHS Act 65 of 1995 and its Regulations Occupational Hygiene Programme 200-93129	Jul-21	In progress & continues	
Project management and supervision of grinding and Steel cutting activities	58	Grinding steel, Cutting and Hammering leading to noise exposure	59.1	Exposure to excessive Noise ≥ 65 dB (A)	Health	Employees Visitors	Occ Health Practitioner Occupational Hygienist Responsible Functional Managers (accountable) & Employees (responsible)	Daily 5 hrs	Noise Induced Hearing Loss	1. Training & awareness, 2. Occupational Health & Hygiene Inspection/survey.	4	D	I	Mostly effective	Legislation Supervision Training & Awareness Health Risk Assessment, Occupational Hygiene Inspections, Noise assessment and Hearing Conservation Programme	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & employees	OHS Act 65, GSR 9,M SHE spec 200-207219 sec 59	Jul-21	In progress & continues	R 38 654
Working in Areas with restricted movement and awkward posture	59	Manual Handling, Incorrect bending, Repetitive motions, Lifting of heavy materials	60.1	Musculoskeletal disorders (MSDs)	Health	Employees Employees with disabilities	Occupational Health Practitioner Responsible Functional Managers (accountable) & Employees (responsible)	Daily 3 hrs	Medical Treatment Injury and LTI	1. Training & awareness, 2. Occupational Health & Hygiene Inspection/survey	3	B	II	Mostly effective	Legislation Supervision Training and Awareness Risk assessment Occupational hygiene inspections and Ergonomic assessments	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & employees	OHS Act 65 OF 1994 GSR 2 CR 6 & 7 Ergonomic Regulation 2019	Jul-21	In progress & continues	
Office Environment: Administrative work, Office Furniture/Equipment, Work Ergonomics.	60	Poor Ventilation	61.1	Acute respiratory Disease, Fatigue, Headaches, Irritation of the eyes, and Nasal congestion	Health	Employees Visitors Employees with disabilities	Occ Health Practitioner Occupational Hygienist Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	Medical Treatment and Increased absenteeism Building Sick Syndrome	1. Training & awareness, 2. Occupational Health & Hygiene Inspection/survey.	3	C	II	Mostly effective	Legislation standards Supervision, Training & awareness, Natural ventilation, Indoor air quality assessment and Occupational Hygiene Survey and Gas Monitoring Maintenance of air conditioners	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & employees	OHS Act 65 OF 1994 Env Reg for Workplaces Facilities Regulations 4 (n) Hazardous Chem Sub Regulations 8 Lead Regulation 9 Asbestos Regulations 8 CR 6 (7) Regulation for Haz Biological Agents 15, 16 GSR 4 sec 3	Jul-21	In progress & continues	
	61	Poor work design, poor lighting and increased visual demand might expose the employees to ergonomics	62.1	Eye strain Headache Back ache	Health	Employees Visitors	Occupational Hygienist Occ Health Practitioner Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	Irreversible health effects with permanent consequences	1. Training & awareness	4	B	II	Mostly effective	Legislation Training & awareness Air conditioning system, Occupational Health & Hygiene Inspection	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & employees	OHS Act 65 OF 1994 GSR 2 CR 6 & 7 Ergonomic Regulation 2019	Jul-21	In progress & continues	
	62	Poor Ergonomics	63.1	Musculoskeletal disorders (MSDs) or back pains	Health	Employees	Occupational Hygienist Occ Health Practitioner Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	Occupational disease with reversible effects	1. Training & awareness, 2. Occupational Health & Hygiene Inspection/survey, 3. Medical Surveillance	3	C	II	Fully effective	Legislation, (Occupational Health and Safety Act (65 1993) Ergonomics Regulations, 2019) Training and Awareness, Risk assessment, Ergonomic assessment and Occupational hygiene inspection	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & employees	OHS Act 65 OF 1994 GSR 2 CR 6 & 7 Ergonomic Regulation 2019	Jul-21	In progress & continues	
	63	Air Conditioners	64.1	Colds or Fever	Health	Employees	Occupational Hygienist Responsible Functional Managers (accountable) & Employees (responsible)	Daily 5 hrs	Occupational disease	1. Constant checks, 2. Adjust air conditioners whenever the weather conditions change 3. Maintenance of the air conditioners	2	B	IV	Mostly effective	1. Heat & Cold stress monitoring	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & employees	OHS Act 65 OF 1994	Jul-21	In progress & continues	
	64	Laptop	65.1	Vision Problems Repetitive Stress Injuries Headaches	Health	Employees	Occupational Hygienist Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	Occupational disease with irreversible effects	1. Training & awareness, 2. Occupational Health & Hygiene Inspection/survey.	3	C	II	Fully effective	1. Ekim employee assistance program 2. Equipment calibration program implemented	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & employees	OHS Act 65 OF 1994 Ergonomic Regulation 2019	Jul-21	In progress & continues	
Substance abuse	65	Intoxicated employees (operators)	66.1	Poor judgment which may lead to injuries Mental instability	Health	Employees Expectant Females Breastfeeding Mothers People living with Disabilities Visitors	Occ Health Practitioner Responsible Functional Managers (accountable) & Employees (responsible)	Daily 9 hrs	Lost-time Injury	1. Training of personnel on proper use, 2. Security access control procedure in place 3. Random alcohol testing 4. SHE induction 5. Ekim Medication Use	4	B	II	Mostly effective	1. Ekim employee assistance program 2. Equipment calibration program implemented	Inspections Reports	Departmental Managers & Employees	OHS Act 65 of 1993 General Safety Reg 2	Jul-21	In progress & continues	
Project management and supervision of drilling and blasting at Concrete Mixing Plants and concrete works	66	Crystalline Silica Exposure	67.1	Development of Acute or Chronic Silicosis	Health	Employees Visitors	Occ Health Practitioner Responsible Functional Managers (accountable) & Employees (responsible)	Daily 3 hrs	Silicosis	1. Training & awareness, 2. Occupational Health & Hygiene Inspection/survey.	5	C	II	Mostly effective	Legislation, Training & awareness, Risk assessment, Crystalline silica dust surveys, Dust suppression, and Enclosed Cabins for plant/equipment	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & employees	OHS Act 65 of 1995 and its Regulations Occupational Hygiene Programme 200-93129	Jul-21	In progress & continues	
Project management and supervision of blasting operations	67	Blasting	68.1	Exposure to Hazardous gasses, fumes and dust	Health	Employees Visitors	Occupational Hygienist Responsible Functional Managers (accountable) & Employees (responsible)	Once off (infrequent & adhoc basis)	1. Fatality, 2. Severe injuries,	1. Legislation, 2. Standards & Procedures, 3. Supervision, 4. Engineering controls, 5. PPE, 6. Medical screening	5	B	II	Mostly effective	1. Signage around blasting parameters, 2. Supervision, 3. Locking the gate of blasting site area 4. Awareness	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & Employees	Medupi SHE Spec 71 OHS Act 65 of 1993 - Explosives Regulation 13 of the OHS Act Occupational Hygiene Program 200-93129	Jul-21	In progress & continues	
Construction activities in poorly lit areas (Cable tunnels, confined spaces, Substations and Corridors)	68	Working in areas with subliminal illumination levels	69.1	Eye strain	Health	Employees	Occupational Hygienist Responsible Functional Managers (accountable) & Employees (responsible)	Daily 3 hrs	Medical Treatment & Increased absenteeism	1. Training & awareness, 2. Occupational Health & Hygiene Inspection/survey.	3	C	II	Mostly effective	Legislation, Training & awareness, Risk assessment, Occupational hygiene inspections and assessments, Day & Emergency lights	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & employees	OHS Act 65 OF 1994 GSR 2 CR 6 & 7 Env Reg 3 & 4	Jul-21	In progress & continues	
Maintenance of Air conditioning Units	69	Poorly maintained ventilation systems and stagnant water	70.1	Hazardous Biological Agents: Legionella	Health	Employees	Occupational Hygienist Responsible Functional Managers (accountable) & Employees (responsible)	Daily 3 hrs	Irreversible health effects with permanent consequences	1. Training & awareness, 2. Occupational Health & Hygiene Inspection/survey.	4	C	II	Mostly effective	Legislation Training & awareness Risk assessment, Air conditioning system & Extraction ventilation system maintenance and Occupational hygiene inspections	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & employees	Env Reg 2.4 & 5 CR 26	Jul-21	In progress & continues	
Confined spaces work and Tunnels and substation works	70	Poor Ventilation	71.1	Hazardous Biological Agents: Legionella	Health	Employees	Occupational Hygienist Responsible Functional Managers (accountable) & Employees (responsible)	Daily 3 hrs	Occupational disease with reversible effects	1. Training & awareness, 2. Occupational Health & Hygiene Inspection/survey.	3	C	II	Mostly effective	Legislation Training & awareness Risk assessment, Air conditioning system & Extraction ventilation system maintenance and Occupational hygiene inspections	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & employees	Env Reg 4, 5 Gen Safety Reg 5	Jul-21	In progress & continues	
Driving/Operation of Plant/Equipment and Manual Handling	71	Poor ergonomically designed work station	72.1	Musculoskeletal Disorders (MSDs)	Health	Employees Employees with disabilities	Occupational Hygienist Responsible Functional Managers (accountable) & Employees (responsible)	Daily 3 hrs	Occupational disease with reversible effects	1. Training & awareness, 2. Occupational Health & Hygiene Inspection/survey.	3	C	II	Mostly effective	Legislation, Training & Awareness, Risk assessment, Ergonomic assessment and Occupational hygiene inspection	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & employees	OHS Act 65 OF 1994 GSR 2 CR 6 & 7 Ergonomic Regulation 2019	Jul-21	In progress & continues	
Outdoor Manual Construction Activities: Temperature Extremes	72	Performing work outdoors under extreme environmental conditions	73.1	Heat Stress, Cold Stress	Health	Employees Visitors	Occupational Hygienist Occ Health Practitioner Responsible Functional Managers (accountable) & Employees (responsible)	Daily 3 hrs	Occupational disease with reversible effects	1. Training & awareness, 2. Occupational Health & Hygiene Inspection/survey.	3	C	II	Mostly effective	Legislation, Training & Awareness, Risk assessment, Occupational hygiene inspection and surveys (Thermal stress assessment)	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & employees	OHS Act 65 1993, Env Reg 2 Gen Safety Reg.	Jul-21	In progress & continues	
			73.2	Ultra Violet Radiation Exposure	Health	Employees Expectant employees Breast feeding mothers Visitors	Occupational Hygienist Radiation Officer Responsible Functional Managers (accountable) & Employees (responsible)	Daily 3hrs	Occupational disease with reversible effects	1. Training & awareness, 2. Occupational Health & Hygiene Inspection/survey.	3	C	II	Mostly effective	Legislation, Training & Awareness, Risk assessment, Occupational hygiene inspection and surveys	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & employees		Jul-21	In progress & continues	
Project management and supervision of cement works: mixing and cement breakage activities	73	Skin and eyes irritation	74.1	Skin Dermatitis and Temporary Blindness	Health	Employees	Occupational Hygienist Responsible Functional Managers (accountable) & Employees (responsible)	Daily 3 hrs	Occupational disease with reversible effects	1. Training & awareness, 2. Occupational Health & Hygiene Inspection/survey.	3	C	II	Mostly effective	Training & awareness Monthly inspection, and Legislation	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & employees	Medupi SHE Spec 71 CR 14, OHS Act 65 of 1993 Hazardous Biological Agent Reg Env Reg 6	Jul-21	In progress & continues	
Driving, Grinding, Jack Hammering, and Hand Drilling	74	Segmental and Whole Body Vibration	75.1	Vibration White Finger (VWF), Hand Arm Vibration Syndrome (HAVS) and Whole Body Vibration	Health	Employees	Occupational Hygienist Responsible Functional Managers (accountable) & Employees (responsible)	Daily 3hrs	Occupational disease with reversible effects	1. Training & awareness, 2. Occupational Health & Hygiene Inspection/survey.	3	C	II	Mostly effective	Training and awareness Risk assessment Occupational hygiene inspection Maintenance of equipment	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & employees	OHS Act 65 of 1995 and its Regulations Occupational Hygiene Programme 200-93129	Jul-21	In progress & continues	
Project management and supervision of X-ray activities	75	Exposure to radiation during testing of material and surface by radioactive material	76.1	Over-exposure to radiation that might lead to development of cancers of the body parts	Health	Employees Expectant employees Breast feeding mothers Visitors	Radiation Officer Responsible Functional Managers (accountable) & Employees (responsible)	Day 3hrs	Occupational Disease with reversible effects	1. Training & awareness, 2. Occupational Health & Hygiene Inspection/survey.	4	C	II	Mostly effective	Safe work procedures Training & awareness, Legislation and standards, Barricading Supervision	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & employees	Medupi SHE Spec 69 OHS Act 65 of 1993 and Regs Code of practice for Industrial Radiology IRCP91-1 200-20131 Industrial Radiography Procedure	Jul-21	In progress & continues	
Quality assurance testing using Radioactive Isotopes	76	Ionising radiation sources used to check integrity and strength of welded steel	77.1	Mutation Cancer Death Damage to internal Organs Infertility Leukemia and Burns	Health	Employees Expectant employees Breast feeding mothers Visitors	Responsible Functional Managers (Responsible) & Employees (responsible)	Daily 3hrs	Fatality	1. Training & awareness, 2. Occupational Health & Hygiene Inspection/survey.	5	C	II	Mostly effective	Safe work procedures Training & awareness, Legislation and standards, Barricading Supervision	Audits Reports Inspections Reports Incidents Reports	Departmental Managers & employees	Medupi SHE Spec 69 OHS Act 65 of 1993 and Regs Code of practice for Industrial Radiology IRCP91-1 200-20131 Industrial Radiography Procedure	Jul-21	In progress & continues	