Business / Operating unit: Draker	nsberg Pumped	d Storage	Scheme	T	Department / Are	ea: Lowe	er Machine Hall		Occupati	ional Health a	nd Safety Baseli	ne Risk Assessn	nent											
																			Next Review Date (every 2	2 years):	01-Mar-24	Templa	ate identifier:	240-7004460
Date:	01-Mar-22				Prepared by	Rahlao, Z Phumlani Jeff Phun Nkosi, Th Siphamai	banjwa, Ritta Zimu, Sthembile Landile Mnukwa, Zama Mkhize, I Mtombela, Andre Van Tonder, ngula, Steven Malatsi, Kwanele Onisile Mijlo, Sifiso Diamini, ndla Kuenene, Charles Wewege, Goorhoo			Authorised by		Maremane Tsote Plant Manager see 'revision' wor	etsi rksheet for signature	}						Document idea	ntifier: 31A/		/: 8 ion number: evision date:	31-May-2
							Refer t	to Occupational Health and S	Safety Risk as	ssessment proce	dure 32-520	T	T					1	I		ı			Integrated Risk
List activity	Activity type (Routine/Non- routine)	Hazard nr			Associated risk				Exposed group/e employees	Risk Owner	Exposure patterns	What are the possible consequences?	Existing Controls					Additional Controls or Tasks Aimed at improving Existing Controls	Monitoring Mechanisms	Control Owner	Legal and Other Requirements	Target Date	Current Status	Management (IRM) reference number
List specific activities to be performed taking into consideration the equipment to be used, the personnel involved in the task.	Indicate R or N 1. Routine activities and situations create hazards through day to-day operations and normal work activities; 2. Non-routine activities and situations are occasional or unplanned;	#	Anything with potential to cause of harm. Note: A hazard can pose more than one risk.	#	A chance that high- , il health or damage could occur as a result of uncontrolled hazard	health	effect?	OH&S opportunities that can enhance OH&S performance and lead to hazard elimination and risk reduction.	Who is exposed to the hazard i.e. visitors, members of the public, etc.		The frequency and duration the person/group is exposed to the hazard e.g. Daily for 3 hrs.	Consider the worse case scenario without controls?	Include: - Preventative Controls (controls implemented to eliminate hazards or reduce the likelihood of the risk occurring), and - Reactive Controls (controls implemented to reduce the immediate impact of the risk occurring) Elimination Substitution Engineering controls Administrative controls Personal protective equipment (PPE)	Consequence	Likelihood	Risk Priority Rating	RCE Risk Control Effectiveness	Include: - Preventative Controls (controls implemented to eliminate hazards or reduce the likelihood of the risk occurring), and - Reactive Controls (controls implemented to reduce the immediate impact of the risk occurring) Elimination Substitution Engineering controls Administrative controls Personal protective equipment (PPE) NB: The risk shall be evaluated, assessed and rated again once additional controls have been implemented.	How we know if we are succeeding. Include comments on effectiveness. This may include i.e. measurements, inspections, supervision where necessary.	Person allocated the responsibility for implementing the agreed controls	Where relevant, list the relevant legislative and or Eskom requirements that prescribe the control.	Once a date has been agreed to, this can not be changed	Pending, In Progress, Complete	Where applicable, add IRM system reference number for tracking of treatment actions.
Working in the lower machine hall	N	1	Noise	1	Noise Induced hearing loss	Health	High noise level from running units	None	Employees/ Contractors/ Visitors	Supervisor/ Manager	Daily for 4 hrs	LTI	Wearing hearing protection, signage, awareness, periodical hearing test	4	2	ı	F	Task specific risk assessment	Behavioural safety observations, inspections	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - Noise Induced Hearing Loss Regulations	None	Complete	None
Walking in the lower machine hall	N	1	Noise	1	Noise Induced hearing loss	Health	High noise level from running units	None	Employees/ Contractors/ Visitors	Supervisor/ Manager	Daily for 0.5 hr	LTI	Wearing hearing protection, signage, awareness	1	2 N	/	F	None	Behavioural safety observation:	s Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - Noise Induced Hearing Loss Regulations	None	Complete	None
Maintenance of service transformers	R	1	Working at heights	1	Falling from height	Safety	Missing a step while climbing up or down the ladder	Working at heights rescue training	Employees/ Contractors	Supervisor/ Manager	2 Yearly for 8 hrs	Medical	Working at heights Training, ladder inspections, safety clearance for working at heights	3	В	ı	F	Task specific risk assessment	Behavioural safety observations, inspections	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - GN R1031 -GSR, 1986	None	Complete	None
		2	Test equipment and cables on the floor	1	Tripping and falling	Safety	Test equipment and cables on the walkway	None	Employees/ Contractors	Supen/sor/ Manager	2 Yearly for 8 hrs	First Aid	Barricading	2	В	V	F	Task specific risk assessment	Behavioural safety observation	s Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - Environmental regulation of Workplaces, 1987&Facilities Regulations, 2004& National Bulding Regulations and Building Standards Act 103 of 1977	None	Complete	None
Lighting maintenance in service transformer bay (Live chamber)	N	1	Lights located in a live chamber	1	Electrocution		Contact with electricity	None	Employees/ Contractors	Supervisor/ Manager	Six monthly for 4 hrs	Fatality	Work permit, Test before Touch,	5	В		F		Behavioural safety observation	Manager	Health and Safety Act, 1993 (Act No. 85 of 1993); Operating Regulations for High Voltage Systems			To be registered or IRM
		2	Working at heights	1	Falling from height	Safety	Missing a step while climbing up or down, two man rule	r Working at heights rescue training	Employees	Supervisor/ Manager	Six monthly for 4 hrs	LTI	Ladder training, inspections, safety clearance for working at heights	4	В		F	Task specific risk assessment	Behavioural safety observations, inspections	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - GN R1031 -GSR, 1986	None	Complete	None
		3	Working on live circuits	1	Electric shock	Safety	Contact	None	Employees	Supervisor/ Manager	Six monthly for 4 hrs	LTI	Isolation, test before touch	4	В	I	F	Task specific risk assessment	Behavioural safety observation	s Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) & Plant Safety Regulations	None	Complete	None
Fire detectors in service transformer bay (Live chamber)	N	1	Fire detectors located in a liv chamber	ve 1	Electrocution	Safety	Contact with electricity	None	Employees	Supervisor/ Manager	Six monthly for 1 hr	Fatality	Work permit, Test before Touch,	5	В		F	Task specific risk assessment	Behavioural safety observation	s Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) & Operating Regulations For High Voltage Systems	None	Complete	To be registered or IRM
		2	Working at heights	1	Falling from height	Safety	Missing a step while climbing up or down, two man rule	r Working at heights rescue training	Employees	Supervisor/ Manager	Six monthly for 1 hr	LTI	Ladder training, inspections, safety clearance for working at heights	4	В	ı	F	Task specific risk assessment	Behavioural safety observations, inspections	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - GN R1031 -GSR, 1986	None	Complete	None

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Battery Room - batteries and lighting maintenance	1 Battery acid	1 Contact with bat acid	tery Safety Improper handling of acid	None Employees/ Contractors		Monthly for 8 hrs I	LTI Acid proof PPE, Battery maintenance training, Permit to work restricted access		Task specific risk assessment	Behavioural safety Supervisor/ observations, continuous Supervision Manager	Occupational None Heath and Safety Act, 1993 (Act No. 85 of 1993 & Environmental regulation of Workplaces, 1987 & GN R1031 General Safety Regulations 1986 & Hazardous Substances Act 15 of 1973	Complete None	
	Working on live circuits	1 Electric shock	Safety Contact	None Employees/ Contractors		Monthly for 8 hrs	Permit to work, restricted access	4 B III F	Task specific risk assessment	Behavioural safety observations Supervisor/ Manager	of 1973 Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) & Plant Safety Regulations	Complete None	
	3 Hydrogen fumes	1 Explosions	Safety Build up of fumes and Ignition of the gases	None Employees/ Contractors	Supervisor/ Manager	Monthly for 8 hrs	LTI Fire detection system, Fire extinguisher, PPE, Permit to work, restricted access, insulated tools, wooden ladders. Fans must be running, doors to remain open. Two-man rule.	4 B III F	Task specific risk assessment two man rule	Behavioural safety observations Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 & Environmental regulation of Workplaces, 1987 & GN R1031 General Safety Regulations 1986 & Hazardous Substances Act 15	Complete None	
Cleaning of Floors N 1	1 Oily floor	1 Slip and fall	Safety Oil spill on the floor	None Employees/ Contractors		Weekly for 3 hrs	LTI Inspection and cleaning	4 B III F	Task specific risk assessment	Behavioural safety Supervisor/ observations, Plant inspections Manager	of 1072 Occupational None Health and Safety Act, 1993 (Act No. 85 of 1993 - National Building Regulations and Building Standards Act 103 of 1977	Complete None	
	2 Soapy floor	1 Slip and fall	Safety Soap and water used for cleaning	g None Employees/ Contractors		Daily for 4 hrs I	LTI Signage	4 B III F	Task specific risk assessment	Behavioural safety observations Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - National Building Regulations and Building Standards Act 103 of 1977	Complete None	
Maintenance of blowdown Compressors	1 Rigging	1 Struck by	Safety Equipment failure	None Employees/ Contractors	Supervisor/ Manager	Yearly for 8 hours	Fatality Rigging safety clearance, Risk assessment	5 B II P	New beams with a correct loar rating to be installed	d Engineering change process, Behavioural safety observations Manager	Occupational Ongoing Health and Safety Act, 1993 (Act No. 85 of 1993; GN R84 Construction Regulation 2014; Driven Machinery Regulation 2015	EC process ongoing To be IRM	registered on
	2 Working at heights	1 Falling from heig	ht Safety Missing a step while climbing up of down the ladder	or None Employees/ Contractors		Yearly for 8 hours	Training, ladder inspections, safety clearance for working at heights	4 B III F	Task specific risk assessment	Behavioural safety observations, inspections Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - GN R1031 -GSR, 1986	Complete None	
	3 Slippery working surfaces	1 Slip and fall	Safety Oil spill on the floor	None Employees/ Contractors	Supervisor/ Manager	Yearly for 8 hours I	LTI Inspection and cleaning	4 B III F	Task specific risk assessment	Behavioural safety observations, Plant inspections Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - National Building Regulations and Building Standards Act 103 of 1977	Complete None	
4	4 Hot surfaces	1 Burns	Safety Hot surface of the compressor	None Employees/ Contractors		Yearly for 8 hours	Medical Isolation, cooling	3 B III F	Task specific risk assessment	Behavioural safety observations Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	Complete None	
Removal of oil drums N 1	1 Rigging	1 Struck by	Safety Equipment failure	None Employees/ Contractors		Weekly for 8 hours	LTI Rigging safety clearance, Risk assessment	4 B III F	Task specific risk assessment	Behavioural safety observations, continuous supervision Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993; GN R84 Construction Regulation 2014; Driven Machinery Regulation 2015	Complete None	
Maintenance of station N 1 compressors	1 Rigging	1 Struck by	Safety Equipment failure	None Employees/ Contractors	Supervisor/ Manager	Yearly for 8 hours I	LTI Rigging safety clearance, Risk assessment	4 B III P	New beams with a correct loa rating to be installed	d Engineering change process, Behavioural safety observations Manager	Occupational None Health and Safety Act, 1993 (Act No. 85 of 1993; GN R84 Construction Regulation 2014; Driven Machinery Regulation 2015	Complete None	
	2 Slippery working surfaces	1 Slip and fall	Safety Oil spill on the floor	None Employees/ Contractors	Supervisor/ Manager	Yearly for 8 hours	LTI Inspection and cleaning	4 B III F	Task specific risk assessment	Behavioural safety Supervisor/ observations, Plant inspections Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - National Building Regulations and Building Standards Act 103 of 1977	Complete None	
	3 Hot surfaces	1 Burns	Safety Hot surface of the compressor	Contractors	Manager		First Aid Isolation, cooling	2 B IV F		Behavioural safety observations Supervisor/ Manager	Occupational Health and Safety Act, Act No. 85 of 1993	Complete None	
<u>Liquid starter maintenance</u> R 1	1 Brine solution	Water under pressure when draining	Safety Equipment failure	None Employees/ Contractors	Supervisor/ Manager	18 Monthly, 8Hrs	Medical Risk assessment, Inspections, Procedure & Supervision	р B III F	Task specific risk assessment	Behavioural safety observations and continuous supervision Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	Complete None	

1 1			None Employee		18 Monthly, 8Hrs	First Aid	Inspection and cleaning 2	B IV	F Task specific risk assessment			Complete	None
	during draining				40 Markh - Olda	Sint Ald					Act, 1993 (Act No. 85 of 1993)	Quantita	None
	brine solution	with the brine solution			To Multury, only	FISLAU	Salety Data Sheet 2	B IV	r Task specific fisk assessment			Complete	None
2 Live chamber	1 Electrocution	Safety Contact with electricity			18 Monthly, 8Hrs	Fatality	Work permit, Test before 5	В	F Task specific risk assessment			Complete	None
3 Working at heights	1 Falling from height	Safety Missing a step while climbing up of down the ladder			18 Monthly, 8Hrs	LTI	Training, ladder inspections, safety clearance for working at heights	В	F Task specific risk assessment			Complete	None
4 Rigging	1 Struck by	Safety Equipment failure			18 Monthly for 8 hrs	LTI	Rigging safety clearance, 4 Risk assessment	В	F Task specific risk assessment			Complete	None
1 Rigging of valve	1 Struck by	Safety Equipment failure			18 Monthly for 8 hrs	LTI	Rigging safety clearance, 4 Risk assessment	B III	F Task specific risk assessment			Complete	None
2 Working at heights	1 Falling from height	Safety Missing a step while climbing up of down the ladder			18 Monthly for 8 hrs	LTI	Training, ladder inspections, safety clearance for working at heights	В	F Task specific risk assessment			Complete	None
3 Valve under Hydraulic pressure	Contact with oil under pressure	Safety Inadvertently coming into contact with the oil under pressure			18 Monthly for 8 hrs	LTI	Permit to Work, 4 depressurize system, Procedure & Supervision	В	F Task specific risk assessment		per Health and Safety Act, 1993 (Act No. 85 of 1993; Plant Safety Regulations; GN R1031 General Safety Regulations 1986; Regulations For Hazardous Chemical	Complete	None
4 Valve under Airlwater Pressure	Contact with air/water under pressure				18 Monthly for 8 hrs	LTI	Permit to Work, depressurize system, Procedure & Supervision	В	F Task specific risk assessment		visor/ Occupational None	Complete	None
5 Use of tools when removing the valve	1 Spanner slipping and hurting your hand	Safety Improper handling of tools			18 Monthly for 8 hrs	Medical	Risk assessment , PPE and 3 tool bag	B III	F Task specific risk assessment			Complete	None
6 Limited space	Struck against or struck by	Safety Valve location			18 Monthly for 8 hrs	LTI	Risk assessment , 2M Rule, 4 PPE, Procedure, Training & Supervision	В	F Task specific risk assessment			Complete	None
7 Slippery surface	1 Slip and fall	Safety Oil spill			18 Monthly for 8 hrs	Medical	PPE, Risk assessment 3	В	F Tasks specific risk assessment			Complete	None
Lifting up of the safety valve	1 Noise induced hearing loss	Health Vessel over pressurised and valve calibrated to a wrong pressure			36monthly, 8hrs	Near Miss	Wear hearing protection 1	A IV	F Task specific risk assessment			Complete	None
2 High Pressurised water	pressure water		Contracto		36monthly, 8hrs	LTI	Following the correct 4 Procedure	В		observations and continuous supervision	ger Health and Safety Act, 1993 (Act No. 85 of 1993 - GN R734 Pressure Equipment Regulation,2009		None
3 Confined space	1 Suffocate	Health Lack of oxygen			36monthly, 8hrs	Medical	Gas test to be done before a entry and continuously during the task	В	F Task specific risk assessment			Complete	None
4 Working at heights	1 Fall from height	Safety Incorrect use of ladders			36monthly, 8hrs	LTI	Ladder inspections, 4 training, working at height safety clearance	B III	F Task specific risk assessment		ger Health and Safety	Complete	None
	3 Working at heights 4 Rigging 1 Rigging of valve 2 Working at heights 3 Valve under Hydraulic pressure 4 Valve under Air/water Pressure 5 Use of tools when removing the valve 6 Limited space 7 Slippery surface 1 Lifting up of the safety valve 2 High Pressurised water 3 Confined space	brine solution and during draining drai	Sake contact with Sakely Insiderently coming into contact with the prins solution	Discussion of the control of the c	Contraction Contraction	Private case from asset Comment of the case of the	Internal Manager 3 Bill or marked Bill of Section (Section Control of Manager Control of	Contraction Contraction		Part Part	Company Comp	Part Part	Part Part

Lighting maintanance R	1 Working at heights	1 Falling from height	Safety Missing a step while climbing up	or Working at heights rescue training Employe	es Supervisor/	Quarterly, 1 hr	LTI Hook up at height,	I4 IB III IF	Task specific risk assessment	Behavioural safety Supervisor/	Occupational None	Complete	None I
Lighting maintenance R	i working di riesgris	raining nonrheight	down, Not hooked up at height, Equipment failing while climbing up or down		Manager	Qualterry, 1111	Scaffold/lader training, inspections, safety clearance for working at heights	7 1 1	i ask speciiic iisk assessirierit	observations, inspections Manager	Health and Safety Act, 1993 (Act No. 85 of 1993) - GN R1031 -GSR, 1986	Complete	None
	2 Working on live circuits	1 Electric shock	Safety Contact	None Employe	ees Supervisor/ Manager	Monthly, 1hr	LTI Isolation, test before touch	1 4 B III F	Task specific risk assessment	Behavioural safety observations, training records Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) & Plant Safety Regulations	Complete	None
Removing and replacing of the instruments	Climbing the stairs while carrying instruments	1 Falling and rolling down stairs	Safety Carrying instruments and tools by hand while using stairs	y None Employe	Supervisor/ Manager	Quarterly for 2 hrs	LTI Risk assessment, Tool ba and tool bucket	g 4 B III P	Carrying instruments and tools in a carry bag	Behavioural safety observations Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993; GN R1031 General Safety Regulations 1996	Complete	None
		2 Struck by falling instruments	Safety Improper handling of instruments	s None Employe	ses Supervisor/ Manager	Quarterly for 2 hrs	LTI Risk assessment	4 B III P	Carrying instruments and tools in a carry bag	Behavioural safety observations Supervisor/ Manager	Occupational None Health and Safety Act, 1993 (Act No. 85 of 1993; GN R1031 General Safety Regulations 1986	Complete	None
	2 Working at heights	1 Falling from height	Safety Incorrect use of ladder	None Employe	ses Supervisor/ Manager	Quarterly for 2 hrs	LTI Training, Ladder inspections and safety clearance for working at heights	4 B III F	Task specific risk assessment	Behavioural safety observations Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - GN R1031 -GSR, 1986	Complete	None
		2 Struck by falling instruments or tools			Manager	Quarterly for 2 hrs	LTI Risk assessment	4 B III P	Barricade the work area	Behavioural safety observations Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - GN R84 Construction Regulations 2014		None
	3 Use of tools when removing the instruments	Tool slipping and hurting your hand		None Employe	Manager	Quarterly for 2 hrs	Medical Risk assessment and PPE			Behavioural safety observations Supervisor/ Manager	Occupational None Health and Safety Act, 1993 (Act No. 85 of 1993; GN R1031 General Safety Regulations 1986		None
	4 Slippery surface	1 Slip and fall	Safety Oil spill	None Employe	supervisor/ Manager	Quarterly for 2 hrs	Medical Risk assessment and PPE	E 3 B III F	Tasks specific risk assessment	Behavioural safety observations Supervisor/ Manager	Occupational None Health and Safety Act, 1993 (Act No. 85 of 1993 - National Building Regulations and Building Standards Act 103 of 1977	Complete	None
	5 Limited space	1 Struck against or struck by	Safety Instruments location	None Employe	ees Supervisor/ Manager	Quarterly for 2 hrs	Medical Risk assessment , PPE, Training	3 B III F	Task specific risk assessment	Behavioural safety observations Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - GN R84 Construction Regulations 2014	Complete	None
	6 Equipment under Pressure	Contact with air/fluid under pressure	Safety Inadvertently coming into contact with the air/fluid under pressure	t None Employe	ses Supervisor/ Manager	Quarterly for 2 hrs	LTI Permit to Work, depressurize system, Procedure	4 B III F	Task specific risk assessment	Behavioural safety observations Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 & Plant Safety Regulations	Complete	None
Cable Pulling and removal N	1 Working at heights	1 Falling from height	Safety Incorrect use of ladder/ scaffold	Working at heights rescue training Employe Contract		5 Yearly for 8 hrs	LTI Training, inspections and safety clearance for working at heights		Task specific risk assessment	Behavioural safety Supervisor/ observations, continuous supervision	Occupational None Health and Safety Act, 1993 (Act No. 85 of 1993) - GN R1031 -GSR, 1986	Complete	None
		2 Struck by falling tools	Safety Improper handling of tools	None Employe Contracts		5 Yearly for 8 hrs	Medical Risk assessment and PPE	E 3 B III F	Barricade the work area, strap the tools around the hand/structure	Behavioural safety observations Supervisor/ Manager	Occupational None Health and Safety Act, 1993 (Act No. 85 of 1993) - GN R84 Construction Regulations 2014	Complete	None
	2 Fibre glass	1 Skin irritation	Safety Contact with fibre glass	None Employe Contracts		5 Yearly for 8 hrs	Medical PPE, Awareness	3 B III F	Task specific risk assessment	Behavioural safety observations Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - Regulations For Hazardous Chemical Substances of 1995	Complete	None
		2 Lung infection	Health Inhalation of fibre glass	None Employe Contracts		5 Yearly for 8 hrs	LTI PPE, Awareness	4 B III F	Task specific risk assessment	Behavioural safety observations Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - Regulations For Hazardous Chemical	Complete	None
Water plant operations R	1 Working with chemicals	1 Chemical burn	Safety Contact with chemicals	None Employe Contracts	lors Manager		Medical Risk assessment , Chemical resistance PPE, SDS	3 B III F	Training	Behavioural safety observations Supervisor/ Manager	Substances of 1995 Occupational Health and Safety Act, 1993 (Act No. 85 of 1993), National Environmental Management, Air Quality Act 39 of 2004.	·	None
		2 Respiratory difficulty	/ Safety Inhalation of chlorine	None Employe Contract		Daily for 2 hrs	Medical Use respirator, SDS	3 B III F	Task specific risk assessment	Behavioural safety observations Supervisor/ Manager	Occupational None Health and Safety Act, 1993 (Act No. 85 of 1993). National Environmental Management, Air Quality Act 39 of 2004.	Complete	None

	2	Wet and slippery surface	1	Slip and fall	Safety	Wetting the floor during draining of the tanks	f None	Employees/ Contractors	Supervisor/ Manager	3 Yearly for 8 hrs	LTI	Risk assessment and PPE	4 B	III	F	Task specific risk assessment	Behavioural safety observation	s Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - National Bulding Regulations and Building Standards Act 103 of 1977	None	Complete	None
Water plant maintenance N	1	Working at heights	1	Falling from height	Safety	Incorrect use of ladder/ scaffold	Working at heights rescue training	Employees/ Contractors	Supervisor/ Manager	3 Yearly for 8 hrs	LTI	Training, inspections and safety clearance for working at heights	4 B	III	F	Task specific risk assessment	Behavioural safety observations, continuous supervision	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - GN R1031 -GSR, 1986	None	Complete	None
			2	Struck by falling tools	Safety	Improper handling of tools	None	Employees/ Contractors	Supervisor/ Manager	3 Yearly for 8 hrs	Medical	Risk assessment and PPE	3 B	III		Barricade the work area, strap the tools around the hand/structure	Behavioural safety observation	s Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - GN R84 Construction Regulations 2014	None	Complete	None
	2	Wet and slippery surface	1	Slip and fall	Safety	Wetting the floor during draining of the tanks	None	Employees/ Contractors	Supervisor/ Manager	3 Yearly for 8 hrs	LTI	Risk assessment and PPE	4 B	111	F	Task specific risk assessment	Behavioural safety observation	s Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - National Bulding Regulations and Building Standards Act 103 of 1977	None	Complete	None
	3	Working with chemicals	1	Chemical burn	Safety	Contact with chemicals	None	Employees/ Contractors	Supervisor/ Manager	Daily for 2 hrs	Medical	Risk assessment, Chemical resistance PPE, SDS	3 B	III	F	Task specific risk assessment, Training	Behavioural safety observation	s Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993). National Environmental Management, Air Quality Act 39 of 2004.	None	Complete	None
			2	Respiratory difficulty	Safety	Inhalation of chlorine	None	Employees/ Contractors	Supervisor/ Manager	Daily for 2 hrs	Medical	Use respirator, SDS	3 B	III	F	Task specific risk assessment	Behavioural safety observation	s Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993). National Environmental Management, Air Quality Act 39 of 2004.	None	Complete	None
Lower machine hall toilets and showers maintenance	1	Wet and slippery surface	1	Slip & Fall	Safety	Floor wet from cleaning water	None	Employees/ Contractors	Supervisor/ Manager	Daily for 3hrs	Medical	Two Man Rule & Slippery floor Signs	3 B	III	F	Task specific risk assessment	Behavioural safety observations,	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - National Bulding Regulations and Building Standards Act 103 of 1977	None	Complete	None
	2	Hot water under pressure	1	Contact with Hot Water under pressure	Safety	Pipe burst	None	Employees/ Contractors	Supervisor/ Manager	5 Yearly for 8hrs	LTI	PTW, Drain pipe, PPE & Supervision	4 B	III	F	Task specific risk assessment	Behavioural safety observations,	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - GN R734 Pressure Equipment Regulation,2009	None	Complete	None
	3	Use angle grinder	1	Dust inhalation	Health	Dust from the cutting wall	None	Employees/ Contractors	Supervisor/ Manager	5 Yearly for 8hrs	First Aid	Risk assessment, dust musk and PPE	2 B	IV	F	Task specific risk assessment	Safety behavioural observation	s Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993). National Environmental Management, Air Quality Act 39 of 2004.	None	Complete	Vone
			2	Dust going into your eyes	Safety	Flying debris from the cutting wall		Employees/ Contractors	Supervisor/ Manager	5 Yearly for 8hrs	LTI	PTW, Goggles, Work instruction, PPE & Supervision	4 B	111	F	Task specific risk assessment	Safety behavioural observation	s Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993). National Environmental Management, Air Quality Act 39 of 2004.	None	Complete	None
			3	Possible finger laceration	Safety	Improper handling of angle grinder	None	Employees/ Contractors	Supervisor/ Manager	5 Yearly for 8hrs	LTI	Risk assessment and PPE	4 B	III	F	Task specific risk assessment	Safety behavioural observation	s Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993; GN R1031 General Safety Regulations 1986	None	Complete	Vone
			4	Noise induced hearing loss	Health	Noise from the grinder	None	Employees/ Contractors	Supervisor/ Manager	5 Yearly for 8hrs	LTI	Risk assessment and PPE	4 B	III	F	Task specific risk assessment	Safety behavioural observations and periodical medicals	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - Noise Induced Hearing Loss Regulations	None	Complete	None
Maintenance of pumps N	1	Rigging	1	Struck by	Safety	Equipment failure	None	Employees/ Contractors	Supervisor/ Manager	4 yearly for 8 hours	LTI	Risk assessment, PPE, Inspection of litting equipment, rigging safety clearance and training	4 B	III	F	Task specific risk assessment	Behavioural safety observation	s Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993; GN R84 Construction Regulation 2014; Driven Machinery Regulation 2015	None	Complete	Vone
			2	Pinch point	Safety	Caught in between	None	Employees/ Contractors	Supervisor/ Manager	4 yearly for 8 hours	Medical	Risk assessment and PPE	3 B	III	F	Task specific risk assessment	Behavioural safety observation	s Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993; GN R84 Construction Regulation 2014; Driven Machinery Regulation 2015	None	Complete	Vone

2	Pump under pressure 1	Contact with water/oil under	Safety Equipment failure	None Employees Contractor		4 yearly for 8 hours		tisk assessment, Permit to 3 ork, PPE	В	III F	Task specific risk assessment	Behavioural safety observations		Occupational Nealth and Safety	None Cor	nplete None	ļ
		pressure		Contractor	s manager		, and the second	UK, PPE						Act, 1993 (Act No. 85 of 1993 - GN R734 Pressure Equipment Regulation,2009			
3	Working at height 1	Falling from height	Safety Incorrect use of ladder	None Employees Contractor		4 Yearly for 8 hrs	s	raining, inspections and 4 afety clearance for working t heights	В	III F	Task specific risk assessment	Behavioural safety observations, continuous supervision	Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - GN R1031 -GSR, 1986	None Cor	nplete None	
	2	Struck by falling equipment	Safety Improper handling of equipment	None Employees Contractor		4 Yearly for 8 hrs	LTI	tisk assessment and PPE 4	В	III F	Task specific risk assessment, Barricade the work area	Behavioural safety observations	Supervisor/ Manager	Occupational N Health and Safety Act, 1993 (Act No. 85 of 1993; GN R1031 General Safety Regulations 1986	None Cor	nplete None	
4	Rotating equipment 1	Caught by rotating equipment	Safety Inadvertent starting of equipment	None Employees Contractor	/ Supervisor/ s Manager	4 Yearly for 8 hrs		TW, risk assessment, 4 uard	В	III F	Task specific risk assessment	Behavioural safety observations	Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993; Electrical Machinery Regulations 2011; Driven Machinery Regulations 2015	None Cor	pplete None	
5	Use of tools when 1 removing/installing the pump	Tool slipping and hurting your hand	Safety Improper handling of tools	None Employees Contractor		4 Yearly for 8 hrs	Medical R	tisk assessment and PPE 3	В	III F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager		None Cor	None None	
6	Slippery working surfaces 1	Slip and fall	Safety Oil spill on the floor	None Employees Contractor		4 Yearly for 8 hours	LTI ir	aspection and cleaning 4	В	III F	Task specific risk assessment	Behavioural safety observations, Plant inspections	Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - National Bulding Regulations and Building Standards Act 103 of 1977	Cor	None None	
7	Working in limited space 1	struck against or body strain	Safety Poor ergonomics	None Employees Contractor		4 Yearly for 8 hours		ilsk assessment, PPE, 4 ake regular breaks	В	III F	Task specific risk assessment	Behavioural safety observations, Plant inspections	Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - GN R1031 - GSR, 1996& GN R85 Construction Regulation 2014	None Cor	nplete None	
Maintenance of motors R 1	Access 1	Slipping and Falling	Safety Slippery surface	None Employees Contractor		18 monthly, 8hrs		pply three point contact, 4	В	III F	Task specific risk assessment		Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - Environmental regulation of Workplaces, 1987&Facilities Regulations, 2004& National Bulding Regulations and Building Standards Act 103 of 1977	Cot Cot	None None	
2	Lifting and rigging 1	Struck by, caught in between	Safety Incorrect rigging	Anchor points to be installed Employees Contractor		18 monthly, 8hrs	LTI R	ligging training 4	В	III F	Task specific risk assessment	Behavioural safety observations	Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993; GN R84 Construction Regulation 2014; Driven Machinery Regulation 2015	None Cor	nplete None	
3	Live circuits 1	Electrical shock	Safety Contact with live circuits	None Employees Contractor		18 monthly, 8hrs		ermit to work, isolation, 4 est before touch	В	III F	Task specific risk assessment	Behavioural safety observations	Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) & Plant Safety Regulations	None Cor	None None	
4	Slippery working surfaces 1	Slip and fall	Safety Oil spill on the floor	None Employees Contractor	/ Supervisor/ s Manager	18 monthly, 8hrs	LTI Ir	sspection and cleaning 4	В	III F	Task specific risk assessment	Behavioural safety observations, Plant inspections	Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - National Bulding Regulations and Building Standards Act 103 of 1977	None Cor	nplete None	
5	Use of tools when removing/installing the motors	Tool slipping and hurting your hand	Safety Improper handling of tools	None Employees Contractor	/ Supervisor/ s Manager	18 monthly, 8hrs	Medical R	tisk assessment and PPE 3	В	III F	Task specific risk assessment	Behavioural safety observations	Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993; GN R1031 General Safety Regulations 1986	None Cor	None None	
Maintenance of valves N 1	Working at heights 1	Falling from height	Safety Incorrect use of ladder	None Employees Contractor		18 monthly, 8hrs	s	raining, inspections and 4 afety clearance for working theights	В	III F	Task specific risk assessment		Supervisor/ Manager		None Cor	nplete None	
	2	Struck by falling equipment	Safety Improper handling of equipment	None Employees Contractor		18 monthly, 8hrs	LTI R	tisk assessment and PPE 4	В	III F	Task specific risk assessment, Barricade the work area	Behavioural safety observations	Manager	Occupational N Health and Safety Act, 1993 (Act No. 85 of 1993; GN R1031 General Safety Regulations 1986	None Cor	nplete None	

	2	Access	1 Slipping and Fa	Safety	Slippery surface	None	Employees/ Contractors	Supervisor/ Manager	18 monthly, 8hrs	LTI	Apply three point contact, safety clearance for working at height	4 B	III F	Task specific risk assessment	Behavioural safety observations, continuous supervision	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - Environmental regulation of Workplaces, 1987&Facilities Regulations, 2004& National Bulding Regulations and Bulding Standards Act 103 of 1977	one Con	plete None	
	3	Lifting and rigging	1 Struck by, caug between	ht in Safety	Incorrect rigging	Anchor points to be installed	Employees/ Contractors	Supervisor/ Manager	18 monthly, 8hrs	LTI	Rigging Training	4 B	III F	Task specific risk assessment	Behavioural safety observation	s Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993; GN R84 Construction Regulation 2014; Driven Machinery Regulation 2015	one Con	plete None	
	4	Slippery working surfaces	1 Slip and fall	Safety	Oil spill on the floor	None	Employees/ Contractors	Supervisor/ Manager	18 monthly, 8hrs	LTI	Inspection and cleaning	4 B	III F	Task specific risk assessment	Behavioural safety observations, Plant inspections	Supervisor/ Manager	Occupational No Health and Safety Act, 1993 (Act No. 85 of 1993 - National Bulding Regulations and Building Standards Act 103 of 1977	one Con	plete None	
	5	Use of tools when removing/installing the valves	1 Tool slipping ar hurting your hal		Improper handling of tools	None	Employees/ Contractors	Supervisor/ Manager	18 monthly, 8hrs	Medical	Risk assessment and PPE	3 B	III F	Task specific risk assessment	Behavioural safety observation	s Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993; GN R1031 General Safety Regulations 1986	one Con	plete None	
	6	Working in limited space	1 Struck against of body strain	or Safety	Poor ergonomics	Ergonomics risk assessment to be done	Employees/ Contractors	Supervisor/ Manager	18 monthly, 8hrs	LTI	Risk assessment, PPE, take regular breaks	4 B	III F	Task specific risk assessment	Behavioural safety observations, Plant inspections	Supervisor/ Manager	Occupational No Health and Safety Act, 1993 (Act No. 85 of 1993 - GN R1031 - GSR, 1996& GN R85 Construction Regulation 2014	one Con	plete None	
Plugs maintenance	N 1	Live circuits	1 Electrical shock	Safety	Contact with live circuits	None	Employees	Supervisor/ Manager	Six monthly, 8hrs	LTI	Permit to work, test before touch	4 B	III F	Task specific risk assessment	Behavioural safety observation	S Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) & Plant Safety Regulations	one Con	plete None	
Walking on stairways	N 1	Ascending or Descending stairs	1 Falling from sta	r Safety	Missing or misjudging steps	None	Employee/ Contractor/ Visitors	Supervisor/ Manager	Daily for 2 hrs	LTI	Use of handralis, 3 point contact, STAR principle & signage	4 B	III F	Task specific risk assessment	Behavioural safety observation	s Supervisor/ Manager	Occupational No Health and Safety Act, 1993 (Act No. 85 of 1993 - National Bulding Regulations and Building Standards Act 103 of 1977	one Con	plete None	
Draft Tube maintenance	R 1	Use of tools when opening/closing the door	Tool slipping ar hurting your hai		Improper handling of tools	None	Employees/ Contractors	Supervisor/ Manager	18 monthly for 8hrs	Medical	Risk assessment and PPE	3 B	III F	Task specific risk assessment	Behavioural safety observation	s Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993; GN R1031 General Safety Regulations 1986	one Con	plete None	
	2	Noise from Pneumatic tool used for opening manhole	1 Noise induced hearing loss	Health	Noise from the pneumatic tool	None	Employees/ Contractors	Supervisor/ Manager	18 Monthly for 8 hrs	LTI	Risk assessment and PPE 4	4 B	III F	Task specific risk assessment	Safety behavioural observations and periodical medicals	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - Noise Induced Hearing Loss Regulations	one Con	plete None	
			2 Communication breakdown	Safety	Noise from the pneumatic tool	None	Employees/ Contractors/ Visitors	Supervisor/ Manager	18 Monthly for 8 hrs	Medical	Two way communication	3 B	III F	Task specific risk assessment	Behavioural safety observation	s Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - Noise Induced Hearing Loss Regulations	one Con	plete None	
	3	Poor lighting	1 Trip & Fall due Poor lighting	o Safety	No permanent lighting inside	None	Employees/ Contractors	Supervisor/ Manager	18 Monthly for 8 hrs	Medical	Use portable lighting, risk assessment	3 B	III F	24V portable lighting to be used, Task specific risk assessment	Safety behavioural observation	s Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - GN R1031 - GSR	one Con	plete None	
	4	Slippery working surfaces	1 Slip and fall	Safety	Water from the upstream	None	Employees/ Contractors	Supervisor/ Manager	18 Monthly for 8 hrs	LTI	Risk assessment and PPE	4 B	F F	Task specific risk assessment	Behavioural safety observations, Plant inspections	Supervisor/ Manager	Occupational No Health and Safely Act, 1993 (Act No. 85 of 1993 - National Bulding Regulations and Bullding Standards Act 103 of 1977	one Con	plete None	
	5	Working at height	1 Falling from hei	ght Safety	Incorrect use of ladder/ scaffold	Working at heights rescue trainin	g Employees/ Contractors	Supervisor/ Manager	18 Monthly for 8 hrs	Medical	Working at heights training, inspections and safety clearance for working at heights	3 B	III F	Task specific risk assessment	Behavioural safety observations, continuous supervision	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - GN R1031 -GSR, 1986	one Con	plete None	
			2 Struck by falling tools	Safety	Improper handling of tools	None	Employees/ Contractors	Supervisor/ Manager	18 Monthly for 8 hrs	Medical	Risk assessment and PPE	3 B	III F	Strap the tools around the hand/structure	Behavioural safety observation	s Supervisor/ Manager	Occupational No Health and Safety Act, 1993 (Act No. 85 of 1993; GN R1031 General Safety Regulations 1986	one Con	plete None	

	8 W	/elding		nhalation of velding fumes	Health	Fumes from welding	Local fumes extractor to be used	Employees/ Contractors	Supervisor/ Manager	18 Monthly for 8 hrs	Medical	Risk assessment and PPE	3 B	III F	Task specific risk ass	observations, Medical	Supervisor/ Manager	Health and Safety	None C	Complete	None
																surveillance		Act, 1993 (Act No. 85 of 1993; NEMA: Air Quality Act 39 of 2004; GN R1031 GSR 1986; Environmental Regulations for Workplaces 1987			
		7	2 A	Arc eyes	Health	Exposure to UV light	None	Employees/ Contractors	Supervisor/ Manager	18 Monthly for 8 hrs	Medical	Wearing Welding face shield, barricading, risk assessment	3 B	III F	Task specific risk as:	Behavioural safety observations, Medical surveillance	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993; GN R1031 GSR 1986; Environmental Regulations for Workplaces 1987	None C	Complete I	None
		:	3 E s	Burn from welding spates	Safety	Welding flukes falling	None	Employees/ Contractors	Supervisor/ Manager	18 Monthly for 8 hrs	First Aid	Welding PPE, Barricading, risk assessment	2 B	IV F	Task specific risk as:	Behavioural safety observat	ons Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993; GN R1031 GSR 1986; Environmental Regulations for Workplaces 1987	None C	Complete I	None
	7 Pa	ainting fumes		nhalation of painting fumes	Health	Fumes from paint	Local fumes extractor to be used	Employees/ Contractors	Supervisor/ Manager	18 Monthly for 8 hrs	Medical	Risk assessment and PPE	3 B	III F	Task specific risk as:	Behavioural safety observations, Medical surveillance	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993. National Environmental Act, Air Quality Act 39 of 2004	None C	Complete I	None
	3 Co	onfined space	1 8	Suffocate	Health	Lack of oxygen	None	Employees/ Contractors	Supervisor/ Manager	18monthly for 8hrs	Medical	Gas test to be done before entry, and continuously during the task, door must be locked in open position. Rescue team on site	3 B	III F	Task specific risk as:	Behavioural safety observations and continuou supervision	Supervisor/ s Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - GN R1031 - GSR, 1996& GN R85 Construction Regulation 2014	None C	Complete	None
	Gi	rinding		Metal filling going nto your eyes	Safety	Flying debris from the grinding	None	Employees/ Contractors	Supervisor/ Manager	18monthly for 8hrs	LTI	PTW, Goggles, Work instruction, PPE & Supervision	4 B	III F	Task specific risk as:	Safety behavioural observations, Supervision.	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993; Electrical Machinery Regulations 2011; Driven Machinery Regulations 2015	None C	Complete I	lone
			2	Cut your finger	Safety	Improper handling of angle grinder	None	Employees/ Contractors	Supervisor/ Manager	18monthly for 8hrs	LTI	Risk assessment and PPE	4 B	III F	Task specific risk as:	Safety behavioural observations, Supervision.	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993; GN R1031 General Safety Regulations 1986	None C	Complete I	√one
				Noise induced nearing loss	Health	Noise from the grinder	None	Employees/ Contractors	Supervisor/ Manager	18monthly for 8hrs	LTI	Risk assessment and PPE	4 B	III F	Task specific risk as:	Safety behavioural observations and periodical medicals	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - Noise Induced Hearing Loss Regulations	None C	Complete I	None
		·	b	oreakdown		Noise from the grinder	None	Employees/ Contractors/ Visitors	Supervisor/ Manager	18 Monthly for 8 hrs		Two way communication	3 B	III F		Behavioural safety observat	Manager	Health and Safety Act, 1993 (Act No. 85 of 1993) - Noise Induced Hearing Loss Regulations		Complete I	
Spiral casing maintenance R		se of tools when pening/closing the door	1 T	Fool slipping and nurting your hand	Safety	Improper handling of tools	None	Employees/ Contractors	Supervisor/ Manager	18 monthly for 8hrs		Risk assessment and PPE		III F	Task specific risk ass	Behavioural safety observat	ons Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993; GN R1031 General Safety Regulations 1986	None C	Complete I	None
		oise from Pneumatic tool sed for opening manhole		Noise induced nearing loss	Health	Noise from the pneumatic tool	None	Employees/ Contractors	Supervisor/ Manager	18 Monthly for 8 hrs	LTI	Risk assessment and PPE	4 B	III F	Task specific risk as:	essment Safety behavioural observations and periodical medicals	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - Noise Induced Hearing Loss Regulations	None C	Complete I	lone
			b	oreakdown	-	Noise from the pneumatic tool	None	Employees/ Contractors/ Visitors	Supervisor/ Manager	18 Monthly for 8 hrs	LTI	Two way communication	4 B	III F	Task specific risk as:	Behavioural safety observat	ons Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - Noise Induced Hearing Loss Regulations	None C	Complete I	None
		oor lighting	F	Fip & Fall due to Poor lighting			None	Employees/ Contractors	Supervisor/ Manager	18 Monthly for 8 hrs		Use portable lighting, risk assessment	3 B	III F	24V portable lighting used, Task specific r assessment	sk .	Manager	Health and Safety Act, 1993 (Act No. 85 of 1993 - GN R1031 - GSR			None
	4 SI	lippery working surfaces	1 S	Slip and fall	Safety	Water from the upstream	None	Employees/ Contractors	Supervisor/ Manager	18 Monthly for 8 hrs	LTI	Risk assessment and PPE	4 B	III F	Task specific risk as:	Behavioural safety observations, Plant inspecti	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - National Bulding Regulations and Building Standards Act 103 of 1977	None C	Complete I	None
	5 W	orking at height	1 F	alling from height	Safety	Incorrect use of ladder/ scaffold	Working at heights rescue training	Employees/ Contractors	Supervisor/ Manager	18 Monthly for 8 hrs	LTI	Working at heights training, inspections and safety clearance for working at heights	4 B	III F	Task specific risk as:	Behavioural safety observations, continuous supervision	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - GN R1031 -GSR, 1986	None C	Complete I	None

			2	Struck by falling	Safety	Improper handling of tools	None	Employees/	Supervisor/	18 Monthly for 8 hrs	Medical	Risk assessment and PPE	3 B	III F	Strap the tools around the	Behavioural safety observations	Supervisor/	Occupational	None (Complete	None
			1	tools	•	•		Contractors	Manager						hand/structure	,	Manager	Health and Safety Act, 1993 (Act No. 85 of 1993; GN R1031 General Safety Regulations 1986			
	6	Welding		Inhalation of welding fumes	Health	Fumes from welding	Local furnes extractor to be used	Employees/ Contractors	Supervisor/ Manager	18 Monthly for 8 hrs	Medical	Risk assessment and PPE	3 B	III F	Task specific risk assessment	Behavioural safety observations, Medical surveillance	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993; NEMA: Air Quality Act 39 of 2004; GN R1031 GSR 1986; Environmental Regulations for Workplaces 1987	None	Complete 1	None
			2	Arc eyes	Health	Exposure to UV light	None	Employees/ Contractors	Supervisor/ Manager	18 Monthly for 8 hrs	Medical	Wearing Welding face shield, barricading, risk assessment	3 B	III F	Task specific risk assessment	Behavioural safety observations, Medical surveillance	Supervisor/ Manager	Occupational I Health and Safety Act, 1993 (Act No. 85 of 1993; GN R1031 GSR 1986; Environmental Regulations for Workplaces 1987	None (Complete	None
			3	Burn from welding spates	Safety	Welding flukes falling	None	Employees/ Contractors	Supervisor/ Manager	18 Monthly for 8 hrs		Welding PPE, Barricading, risk assessment	2 B	IV F	Task specific risk assessment	Behavioural safety observations	s Supervisor/ Manager	Occupational Health and Safety Act, 1939 (Act No. 85 of 1993; GN R1031 GSR 1986; Environmental Regulations for Workplaces 1987	None (Complete 1	None
		Painting fumes		painting fumes		Fumes from paint		Employees/ Contractors	Manager	18 Monthly for 8 hrs		Risk assessment and PPE	3 B	III F	Task specific risk assessment	observations, Medical surveillance	Supervisor/ Manager	Health and Safety Act, 1993 (Act No. 85 of 1993. National Environmental Act, Air Quality Act 39 of 2004			None
	8	Confined space	1	Suffocate	Health	Lack of oxygen	None	Employees/ Contractors	Supervisor/ Manager	18monthly for 8hrs		Gas test to be done before : entry, and continuously during the task, door must be locked in open position. Rescue team on site	3 B	III F	Task specific risk assessment	Behavioural safety observations and continuous supervision	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - GN R1031 - GSR, 1996& GN R85 Construction Regulation 2014	None (Complete I	None
	9	Grinding		Metal filling going into your eyes	Safety	Flying debris from the grinding	None	Employees/ Contractors	Supervisor/ Manager	18monthly for 8hrs		PTW, Goggles, Work instruction, PPE & Supervision	4 B	III F	Task specific risk assessment	Safety behavioural observations, Supervision.	Supervisor/ Manager	Occupational I Health and Safety Act, 1993 (Act No. 85 of 1993; Electrical Machinery Regulations 2011; Driven Machinery Regulations 2015	None (Complete	None
			2	Cut your finger	Safety	Improper handling of angle grinder	None	Employees/ Contractors	Supervisor/ Manager	18monthly for 8hrs	LTI	Risk assessment and PPE	4 B	III F	Task specific risk assessment	Safety behavioural observations, Supervision.	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993; GN R1031 General Safety Regulations 1986	None (Complete	None
				Noise induced hearing loss	Health	Noise from the grinder	None	Employees/ Contractors	Supervisor/ Manager	18monthly for 8hrs	LTI	Risk assessment and PPE	4 B	III F	Task specific risk assessment	Safety behavioural observations and periodical medicals	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - Noise Induced Hearing Loss Regulations	None (Complete	None
				Communication breakdown				Employees/ Contractors/ Visitors	Manager	18 Monthly for 8 hrs		Two way communication	3 B	III F		Behavioural safety observations	Manager	Health and Safety Act, 1993 (Act No. 85 of 1993) - Noise Induced Hearing Loss Regulations			None
Sewage plant maintenance N		Biological hazardous substance		Contracting hepatitis A or B disease	Health	Contact with biological hazardous substance	None	Employees/ Contractors	Supervisor/ Manager	Quarterly for 1 hr	Medical	Risk Assessment, PPE and inepatitis vaccine	3 B	III F	Task specific risk assessment	Behavioural safety observations	s Supervisor/ Manager	Occupational I Health and Safety Act, 1993 (Act No. 85 of 1993). Regulations for hazardous chemical subtances, 1995 - Regulations for Hazardous Biological Agents - Notice of Directive in Terms of Section 7(1) of The Occupational Health and Safety Act, 1993 (COIDA Class XXI Health)	None	Complete	None
	2	Live circuits	1	Electrical shock	Safety	Contact with live circuits	None	Employees/ Contractors	Supervisor/ Manager	3 Yearly for 3 hr	LTI	Permit to work, isolation, test before touch	4 B	III F	Task specific risk assessment	Behavioural safety observations	S Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) & Plant Safety Regulations	None (Complete N	None
	3	Slippery working surfaces	2	Slip and fall	Safety	sewage water on the floor	None	Employees/ Contractors	Supervisor/ Manager	Quarterly for 1 hr	LTI	Inspection and cleaning	4 B	III F	Task specific risk assessment	Plant inspections	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - National Bulding Regulations and Building Standards Act 103 of 1977	None (Complete	None

	4	Use of insecticides	1	Inhaling fumes	Health	Uncontrolled spraying with insecticide	None	Employees/ Contractors	Supervisor/ Manager	Quarterly for 1 hr	Medical	None 3	В	III I	Use of respirator, risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993. Nature Conservations Ordinance 8 of 1969	Complete	None
	5	Hot water under pressure	1	Contact with Hot Water under pressure	Safety	Pipe burst	None	Employees/ Contractors	Supervisor/ Manager	Quarterly for 1 hr	LTI	None 4	В	III I	Task specific risk assessment	Behavioural safety observations, Plant inspections	Supervisor/ Manager	Occupational None Health and Safety Act, 1993 (Act No. 85 of 1993 - GN R734 Pressure Equipment Regulation,2009	Complete	None
	6	Use of tools	1	Tool slipping and hurting your hand	Safety	Improper handling of tools	None	Employees/ Contractors	Supervisor/ Manager	18monthly for 8hrs	Medical	Risk assessment and PPE 3	В	III F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational None Health and Safety Act, 1993 (Act No. 85 of 1993; GN R1031 General Safety Regulations 1986	Complete	None
Excitation transformers F maintenance	1	Working with High Voltage equipment	1	Electrocution	Safety	Contact with live circuits while testing	None	Employees/ Contractors	Supervisor/ Manager	18 Monthly for 8 hrs	LTI	Work Permit, Arc Flash PPE, isolations, test before touch, follow correct procedure, barricade work area	В	III F	Task specific risk assessment		Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) & Operating Regulations For High Voltage Systems	Complete	None
	2	Working at heights	1	Falling from height	Safety	Missing a step while climbing up or down the ladder	None	Employees/ Contractors	Supervisor/ Manager	18 Monthly for 8 hrs	Medical	Working at heights training, ladder inspections, safety clearance for working at heights	В	III F	Task specific risk assessment	Behavioural safety observations, inspections	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - GN R1031 -GSR, 1986	Complete	None
	3	Rigging	1	Struck by	Safety	Equipment failure	None	Employees/ Contractors	Supervisor/ Manager	18 Monthly for 8 hrs	Medical	Rigging training, Rigging 3 safety clearance, Risk assessment	В	III P	Barricade working area	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993; GN R84 Construction Regulation 2014; Driven Machinery Regulation 2015	Complete	None
	4	Use of tools	1	Tool slipping and hurting your hand	Safety	Improper handling of tools	None	Employees/ Contractors	Supervisor/ Manager	18monthly for 8hrs	Medical	Risk assessment and PPE 3	В	III F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational None Health and Safety Act, 1993 (Act No. 85 of 1993; GN R1031 General Safety Regulations	Complete	None
	5	Test equipment and cables on the floor	: 1	Tripping and falling	Safety	Test equipment and cables on the walkway	None	Employees/ Contractors	Supervisor/ Manager	18 Monthly for 8 hrs	First Aid	Barricading 2	В	IV F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Mone Health and Safety Act, 1993 (Act No. 85 of 1993 - Environmental regulation of Workpiaces, 1987 & Facilities Regulations, 2004 & National Building Regulations and Building Standards Act 103 of 1977	Complete	None
Governor sump inspection and cleaning	1	Confined space	1	Suffocate	Safety	Lack of oxygen	None	Employees/ Contractors	Supervisor/ Manager	3 Monthly for 3hrs	Fatality	Gas test to be done before entry and continuously during the task	В	II F	Task specific risk assessment	Behavioural safety observations and continuous supervision	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - GN R1031 - GSR, 1996& CN R85 Construction Regulation 2014	Complete	To be registered on IRM
	2	Working in limited space	1	Struck against or body strain	Safety	Poor ergonomics	Ergonomics risk assessment to be done	Employees/ Contractors	Supervisor/ Manager	3 Monthly for 3hrs	LTI	Risk assessment, PPE, take regular breaks	В	III F	Task specific risk assessment	Behavioural safety observations,	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - GN R1031 - GSR, 1996& GN R85 Construction Regulation 2014	Complete	None
	3	Poor lighting	1	Trip & Fall due to Poor lighting	Safety	No permanent lighting inside	None	Employees/ Contractors	Supervisor/ Manager	3 Monthly for 3hrs	First Aid	Use portable lighting, risk assessment 3	В	III F	24V portable lighting to be used, Task specific risk assessment	Safety behavioural observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - GN R1031 - GSR	Complete	None
	4	Slippery surface	1	Slip and fall	Safety	Oil spill	None	Employees/ Contractors	Supervisor/ Manager	18 Monthly for 8 hrs	Medical	Risk assessment and PPE 3	В	III F	Tasks specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - National Butling Regulations and Building Standards Act 103 of 1977	Complete	None
	5	Working at heights	1	Falling from height	Safety	Missing a step while climbing up onto sump or down under the sump	None	Employees/ Contractors	Supervisor/ Manager	18 Monthly for 8 hrs	Medical	Working at heights training 3	В	III F	Task specific risk assessment		Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - GN R1031 - GSR, 1986	Complete	None
220V / 380V electrical boards maintenance	1	Live circuits	1	Electrical shock	Safety	Contact with live circuits	None	Employees/ Contractors	Supervisor/ Manager	18 monthly, 8hrs	LTI	Permit to work, test before touch, Follow correct procedure	В	III F	Task specific risk assessment	Safety behavioural observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) & Plant Safety Regulations	Complete	None

	2 Working with electri	cal cleaner 1	Contact with the chemical	Safety	Chemical splash	None	Employees/ Contractors	Supervisor/ Manager	18 monthly, 8hrs	Medical	PPE, following the correct procedure, Consult SDS	3 B	III F	Tas	k specific risk assessment	Safety behavioural observation	s Supervisor/ Manager	Occupational Health and Safety Act, 1983 (Act No. 85 of 1993). National Environmental Management, Air Quality Act 39 of 2004.	one Co	mplete No	ne
		2	Inhaling fumes	Health	Chemical fumes	None	Employees/ Contractors	Supervisor/ Manager	18 monthly, 8hrs	Medical	Wearing of the respirator, following the correct procedure, Consult SDS	3 B	III F	Tas	k specific risk assessment	Safety behavioural observations	s Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993). National Environmental Management, Air Quality Act 39 of 2004.	one Co	mplete No	ne
	3 Use of incorrect too	ls 1	Short-circuit that may lead to electrocution	Safety	Use of uninsulated tools	None	Employees/ Contractors	Supervisor/ Manager	18 monthly, 8hrs	LTI	Risk assessment, insulated tools and PPE	4 B	III F	Tas	k specific risk assessment	Behavioural safety observation:	s Supervisor/ Manager	Occupational N Health and Safety Act, 1993 (Act No. 85 of 1993; GN R1031 General Safety Regulations 1986	one Co	mplete No	ne
	4 Climbing the stairs v carrying tools and cl		Falling and rolling down stairs	Safety	Carrying tools and chemical by hand while using stairs	None	Employees/ Contractors	Supervisor/ Manager	18 monthly, 8hrs	LTI	Risk assessment	4 B	III P		vering and lifting chemicals tools using the crane	Behavioural safety observations	s Supervisor/ Manager	Occupational Nealth and Safety Act, 1993 (Act No. 85 of 1993). National Environmental Management, Air Quality Act 39 of 2004.	one Co	mplete No	ne
		2	Struck by falling tools	Safety	Improper handling of tools and chemicals	None	Employees/ Contractors	Supervisor/ Manager	18 monthly, 8hrs	LTI	Risk assessment	4 B	III P		vering and lifting chemicals tools using the crane	Behavioural safety observations	s Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993). National Environmental Management, Air Quality Act 39 of 2004.	one Co	mplete No	ne
PA system maintenace N	1 Working on portable	e ladders 1	Falling from height	Safety	Incorrect use of the ladder	Working at heights rescue training	Employees/ Contractors	Supervisor/ Manager	Yearly for 2 hours	LTI	Ladder inspection, Working at heights training, safety clearance for working at height, two man rule	4 B	III F	Tas	k specific risk assessment	Safety behavioural observation:	s Supervisor/ Manager	Occupational N Health and Safety Act, 1993 (Act No. 85 of 1993) - GN R1031 -GSR, 1986	one Co	mplete No	ne
Fire dampers - testing and maintenance	1 Dampers located in area	awkward 1	Trip and fall	Safety	Trip over plant equipment	None	Employees/ Contractors	Supervisor/ Manager	6 Monthly for 8hrs	LTI	Risk assessment, two man rule	4 B	III F	Tas	k specific risk assessment	Safety behavioural observation:	s Supervisor/ Manager	Occupational N Health and Safety Act, 1993 (Act No. 85 of 1993	one Co	mplete No	ne
	2 Inadvertent closing of damper while working		Caught in between	Safety	System fault	None	Employees/ Contractors	Supervisor/ Manager	Yearly for 4hrs	First Aid	Risk Assessment 2	2 B	IV F	Tas	k specific risk assessment	Safety behavioural observations	s Supervisor/ Manager	Occupational N Health and Safety	one Co	mplete No	ne
	3 Live circuits	1	Electrical shock	Safety	Contact with live circuits	None	Employees/ Contractors	Supervisor/ Manager	Yearly for 4hrs	LTI	Permit to work, test before touch	4 B	III F	· Tas	k specific risk assessment	Safety behavioural observations		Occupational N Health and Safety Act, 1993 (Act No. 85 of 1993) & Plant Safety Regulations	one Co	mplete No	ne
	4 Working at heights	1	Falling from height	Safety	Incorrect use of the scaffold	Working at heights rescue training	Employees/ Contractors	Supervisor/ Manager	Yearly for 4hrs	LTI	Scaffold inspection, working at heights training, safety clearance for working at height, two man rule	4 B	III F	Tas	k specific risk assessment	Safety behavioural observation:	S Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - GN R1031 -GSR, 1986	one Co	mplete No	ne
Repairs/removal/installation of Pipes N	1 Rigging	1	Struck by	Safety	Equipment failure	Installation of rigging point	Employees/ Contractors	Supervisor/ Manager	Yearly for 8 hrs	Fatality	Rigging safety clearance, Rigging Training Risk assessment	5 B	II F	Tas	k specific risk assessment	Behavioural safety observations	s Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993; GN R84 Construction Regulation 2014; Driven Machinery Regulation 2015	one Co	mplete To	be registered on M
	2 Pipes under pressur	re 1	Contact with oil/water/air under pressure	Safety	Inadvertently coming into contact with the oil/water/air under pressure		Employees/ Contractors	Supervisor/ Manager	Yearly for 8 hrs	LTI	Permit to Work, depressurize system, use of procedure & Supervision	4 B	III F	Tas	k specific risk assessment	Behavioural safety observations	s Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993	one Co	mplete No	ne
	Working at heights	1	Falling from height	Safety	Incorrect use of the ladder/scaffold	Working at heights rescue training	Employees/ Contractors	Supervisor/ Manager	Yearly for 8 hrs	LTI	Scaffold/ladder inspection, Working at heights training, safety clearance for working at height, two man rule	4 B	III F	Tas	k specific risk assessment	Safety behavioural observation:	s Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - GN R1031 -GSR, 1986	one Co	mplete No	ne
	4 Use of tools when removing/replacing	pipes 1	Spanner slipping and hurting your hand	Safety	Improper handling of tools	None	Employees/ Contractors	Supervisor/ Manager	Yearly for 8 hrs	Medical	Risk assessment and PPE	3 B	III F	Tas	k specific risk assessment	Behavioural safety observation:	S Supervisor/ Manager	Occupational N Health and Safety Act, 1993 (Act No. 85 of 1993; GN R1031 General Safety Regulations 1986	one Co	mplete No	ne
	5 Welding	1	Inhalation of welding fumes	Health	Fumes from welding	Local fumes extractor to be used	Contractors	Supervisor/ Manager	Yearly for 8 hrs	Medical	Risk assessment and PPE	3 B	III F		k specific risk assessment	observations, Medical surveillance	Supervisor/ Manager	Occupational Nealth and Safety Act, 1993 (Act No. 85 of 1993		mplete No	
		2	Arc eyes	Health	Exposure to UV light	None	Employees/ Contractors	Supervisor/ Manager	Yearly for 8 hrs	Medical	Wearing Welding face shield, barricading, risk assessment	3 B	III F		k specific risk assessment	observations, Medical surveillance	Supervisor/ Manager	Health and Safety Act, 1993 (Act No. 85 of 1993		mplete No	
		3	Burn from welding spatters/hot surface		Welding flukes falling	None	Employees/ Contractors	Supervisor/ Manager	Yearly for 8 hrs	First Aid	Welding PPE, Barricading, risk assessment	2 B	IV F	Tas	к specific risk assessment	Behavioural safety observations	S Supervisor/ Manager	Occupational N Health and Safety Act, 1993 (Act No. 85 of 1993	one Co	mplete No	ne

	6	Grinding 1	Metal fillings going into your eyes	Safety	Flying debris from the grinding	None	Employees/ Contractors	Supervisor/ Manager	Yearly for 8 hrs	LTI	PTW, Goggles, Work instruction, PPE & Supervision	4 B	3 III	F	Task specific risk assessment	Safety behavioural observations, Supervision.	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993; Electrical Machinery Regulations 2011; Driven Machinery Regulations 2015	None	Complete	None
		2	Cut your finger	Safety	Improper handling of angle grinder	None	Employees/ Contractors	Supervisor/ Manager	Yearly for 8 hrs	LTI	Risk assessment and PPE	4 B	3 III	F	Task specific risk assessment	Safety behavioural observations, Supervision.	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993; GN R1031 General Safety Regulations 1986	None	Complete	None
		3	Noise induced hearing loss	Health	Noise from the grinder		Employees/ Contractors	Supervisor/ Manager	Yearly for 8 hrs	LTI	Risk assessment and PPE	4 B	3 III	F	Task specific risk assessment	Safety behavioural observations and periodical medicals	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - Noise Induced Hearing Loss Regulations	None	Complete	None
		2	Communication breakdown			None	Employees/ Contractors/ Visitors	Manager	18 Monthly for 8 hrs		Two way communication	3 B	3	F		Behavioural safety observations	Manager	Health and Safety Act, 1993 (Act No. 85 of 1993) - Noise Induced Hearing Loss Regulations	None		None
		4	Hot surfaces	Safety	Grinding friction	None	Employees/ Contractors	Supervisor/ Manager	Yearly for 8 hrs	First Aid	Risk assessment and PPE	2 B	B IV	/ F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)	None	Complete	None
	7	Painting fumes 1	Inhalation of painting fumes	Health	Fumes from paint	None	Employees/ Contractors	Supervisor/ Manager	Yearly for 8 hrs	Medical	Risk assessment and PPE	3 B	3	F	Task specific risk assessment	Behavioural safety observations, Medical surveillance	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993. National Environmental Act, Air Quality Act 39 of 2004	None	Complete	None
	8	Limited space 1	Struck against or struck by	Safety	Location of pipes	None	Employees/ Contractors	Supervisor/ Manager	Yearly for 8 hrs	Medical	Risk assessment , PPE	3 B	3	F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - GN R1031 - GSR, 1996& GN R85 Construction Regulation 2014	None	Complete	None
		2	Body strain	Safety	Ergonomics	Ergonomics risk assessment to be done	Employees/ Contractors	Supervisor/ Manager	Yearly for 8 hrs	LTI	Risk assessment, PPE, take regular breaks	4 E	3	F	Task specific risk assessment	Behavioural safety observations, Plant inspections	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - GN R1031 - GSR, 1996& GN R85 Construction Regulation 2014	None	Complete	None
	9	Slippery working surfaces 1	Slip and fall	Safety	Oil spill on the floor	None	Employees/ Contractors	Supervisor/ Manager	Yearly for 8 hrs	LTI	Inspection and cleaning	4 B	3 III	F	Task specific risk assessment	Behavioural safety observations, Plant inspections	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - National Bulding Regulations and Bulding Standards Act 103 of 1977	None	Complete	None
Removal , replacement and opening for inspection of Coolers	1	Use of tools when removing/replacing coolers	Spanner slipping and hurting your hand	Safety	Improper handling of tools	None	Employees/ Contractors	Supervisor/ Manager	3 Yearly for 8 hrs	Medical	Risk assessment and PPE	3 B	3 III	F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993; GN R1031 General Safety Regulations 1986	None	Complete	None
	2	Working at heights 1	Falling from height	Safety	incorrect use of the ladder/scaffold	Working at heights rescue training	Employees/ Contractors	Supervisor/ Manager	3 Yearly for 8 hrs	LTI	Scaffold/ladder inspection, Working at heights training, safety clearance for working at height, two man rule	4 B	3 III	F	Task specific risk assessment	Safety behavioural observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - GN R1031 -GSR, 1986	None	Complete	None
	3	Rigging 1	Struck by	Safety	Equipment failure	Anchor points to be installed	Employees/ Contractors	Supervisor/ Manager	3 Yearly for 8 hrs	Fatality	Rigging safety clearance, rigging training, Risk assessment	5 B	3 11	F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993; GN R84 Construction Regulation 2014; Driven Machinery Regulation 2015	None	Complete	To be registered on IRM
	4	Slippery surface 1	Slip and fall	Safety	Oil spill on the floor	None	Employees/ Contractors	Supervisor/ Manager	3 Yearly for 8 hrs	LTI	Inspection and cleaning	4 B	3 III	F	Task specific risk assessment	Behavioural safety observations, Plant inspections	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - National Bulding Regulations and Building Standards Act 103 of 1977	None	Complete	None
	5	Limited space 1	Struck against or struck by	Safety	Location of coolers	None	Employees/ Contractors	Supervisor/ Manager	3 Yearly for 8 hrs	Medical	Risk assessment , PPE	3 B	3 III	F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - GN R1031 - GSR, 1996& GN R85 Construction Regulation 2014	None	Complete	None

		Carlo and a second	2			Ergonomics	Ergonomics risk assessment to be done	Contractors	Supervisor/ Manager	3 Yearly for 8 hrs	LTI	Risk assessment, PPE, 4 take regular breaks	В	111		Behavioural safety observations, Plant inspections	-	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - GN R1031 - GSR, 1996& GN R85 Construction Regulation 2014	Complete	None
		Cooler under pressure	ľ	Contact with oil/water under pressure	Safety	with the oil/water under pressure	None	Employees/ Contractors	Supervisor/ Manager	3 Yearly for 8 hrs		depressurize system, Procedure & Supervision			r I ask specilic lisk assessificiti	Deliavioural safety observations	Manager	Occupational None Health and Safety Act, 1993 (Act No. 85 of 1993	Complete	None
Filters and strainers maintenance R	1	Use of tools when removing/replacing filters	1	Spanner slipping and hurting your hand	Safety	Improper handling of tools	None	Employees/ Contractors	Supervisor/ Manager	18 Monthly for 8 hrs	Medical	Risk assessment and PPE 3	В	III	F Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational None Health and Safety Act, 1993 (Act No. 85 of 1993; GN R1031 General Safety Regulations 1986	Complete	None
	2	Rigging	1	Struck by	Safety	Equipment failure	Anchor points to be installed	Employees/ Contractors	Supervisor/ Manager	18 Monthly for 8 hrs	Fatality	Rigging safety clearance, Rigging trainin, Risk assessment	В	II	F Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993; GN R84 Construction Regulation 2014; Driven Machinery Regulation 2015	Complete	To be registered on IRM
	3	Working at heights	1	Falling from height	Safety	Incorrect use of the ladder/scaffold	Working at heights rescue training	Employees/ Contractors	Supervisor/ Manager	36 Monthly for 8 hrs	LTI	Ladder inspection, working at heights training, safety clearance for working at height, two man rule	В	III	F Task specific risk assessment	Safety behavioural observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - GN R1031 -GSR, 1986	Complete	None
	4	Slippery surface	1	Slip and fall	Safety	Oil spill on the floor	None	Employees/ Contractors	Supervisor/ Manager	18 Monthly for 8 hrs	LTI	Inspection and cleaning 4	В	III	F Task specific risk assessment	Behavioural safety observations, Plant inspections	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - National Building Regulations and Building Standards Act 103 of 1977	Complete	None
PT enclosure maintenance R	1	Rigging	1	Struck by	Safety	Equipment failure	Anchor points to be installed	Employees/ Contractors	Supervisor/ Manager	36 Monthly for 8 hrs	Fatality	Rigging safety clearance, 5 Rigging trainig, Risk assessment	В	"	F Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993; GN R84 Construction Regulation 2014; Driven Machinery Regulation 2015	Complete	To be registered on IRM
	2	Working at heights	1	Falling from height	Safety	Incorrect use of the ladder/scaffold	Working at heights rescue training	Employees/ Contractors	Supervisor/ Manager	36 Monthly for 8 hrs	LTI	Ladder inspection, working at training, safety clearance for working at height, two man rule	В	III	F Task specific risk assessment	Safety behavioural observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - GN R1031 -GSR, 1986	Complete	None
	3	Slippery surface	1	Trip and fall	Safety	Oil spill on the floor	None	Employees/ Contractors	Supervisor/ Manager	Daily for 2hrs	LTI	Inspection and cleaning 4	В	111	F Task specific risk assessment	Behavioural safety observations, Plant inspections	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - National Building Regulations and Building Standards Act 103 of 1977	Complete	None
	4	Uneven surface	1	Trip and fall	Safety	Plant design layout	None	Employees/ Contractors	Supervisor/ Manager	Daily for 2hrs	LTI	Risk assessment, PPE 4	В	III	F Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - National Bulding Regulations and Bulding Standards Act 103 of 1977	Complete	None
	5	Painting fumes	1	Inhalation of painting fumes	Health	Furnes from paint	Local fumes extractor to be used	Employees/ Contractors	Supervisor/ Manager	36 Monthly for 8 hrs	Medical	Risk assessment and PPE 3	В	III	F Task specific risk assessment	Behavioural safety observations, Medical surveillance	Supervisor/ Manager	Occupational None Health and Safety Act, 1993 (Act No. 85 of 1993. National Environmental Act, Air Quality Act 39 of 2004	Complete	None
	6	Working with dry ice	1	Cold burns to the skin	Safety	Contact with dry ice	None	Employees/ Contractors	Supervisor/ Manager	10 Yearly for 8 hrs	Medical	Risk assessment and PPE 3	В	III I	F Task specific risk assessment	Behavioural safety observations, Medical surveillance	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993	Complete	None
Blowdown compressor gravity tank oil topup	1	Working at heights	1	Falling from height	Safety	Incorrect use of the ladder	Working at heights rescue training	Employees	Supervisor/ Manager	Weekly for 0.5 hr	LTI	Working at heights training, safety clearance for working at height, inspections	В	III	F Task specific risk assessment	Safety behavioural observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - GN R1031 -GSR, 1986	Complete	None
Removal and replacement of N floor plates	1	Rigging, to confirm which floor plates	1	Struck by	Safety	Equipment failure		Employees/ Contractors	Supervisor/ Manager	36 Monthly for 8 hrs	Fatality	Rigging safety clearance, Rigging training, Risk assessment	В	ıı I	F Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993; GN R84 Construction Regulation 2014; Driven Machinery	Complete	To be registered on IRM
	2	Working at heights	1			Incorrect use of the ladder/scaffold		Employees/ Contractors	Supervisor/ Manager	36 Monthly for 8 hrs	LTI	Ladder inspection, training, asfety clearance for working at height, two man rule	В	III			Manager	Regulation 2015 Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - GN R1031 -GSR, 1986	Complete	None
	3	Slippery surface	1	Trip and fall	Safety	Oil spill on the floor		Employees/ Contractors	Supervisor/ Manager	Daily for 2hrs	LTI	Inspection and cleaning 4	В		F Task specific risk assessment	Behavioural safety observations, Plant inspections	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - National Bulding Regulations and	Complete	None

		4	Uneven surface	1	Trip and fall	Safety	Plant design layout		Employees/ Contractors	Supervisor/ Manager	Daily for 2hrs	LTI	Inspection and cleaning	4 B	III	F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - National Bulding Regulations and Building Standards Act 103 of 1977	None (Complete	None
Isolations or de-isolations N	N	1	Opening and closing valves under gratings or floor plates	1	Struck by or against	Safety	Plant design layout	None	Employees	Supervisor/ Manager	Quarterly, 1hr	LTI	Risk assessment	4 B	III	F	To develop a local instruction	Behavioural safety observations	Supervisor/ Manager	Occupational N Health and Safety Act, 1993 (Act No. 85 of 1993; GN R1031 General Safety Regulations 1986	None (Complete	None
				2	Caught in between	Safety	Limited space	None	Employees	Supervisor/ Manager	Quarterly, 1hr	LTI	Risk assessment	4 B	III	F	To develop a local instruction	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - GN R1031 - GSR, 1996& GN R85 Construction Regulation 2014	None (Complete	None
		2	Access	1	Tripping and Falling	Safety	Slippery surface, not applying three point contact	None	Employees	Supervisor/ Manager	Quarterly, 1hr	LTI	Apply three point contact	4 B	III	F	Task specific risk assessment	observations, continuous supervision	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993 - Environmental regulation of Workplaces, 1987&Facilities Regulations, 2004& National Building Regulations and Building Standards Act 103 of 1977	None	Complete	None
		3	Poor lighting		Tripping and Falling, struck against	Safety	Poor visibility	None	Employees	Supervisor/ Manager	Quarterly, 1hr	Medical	Use of torches	3 B		F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational N Health and Safety Act, 1993 (Act No. 85 of 1993 - Environmental regulation of Workplaces, 1987&Facilities Regulations, 2004& National Bulding Regulations and Bulding Standards	None	Complete	None
		4	Draining of the vessels		Noise induced hearing loss	Health	Draining of high pressure air		Employees/ Contractors/ Visitors	Supervisor/ Manager	36monthly, 8hrs	Near Miss	Wear hearing protection	1 A	IV	F	Task specific risk assessment		Supervisor/ Manager	Act 103 of 1977 Occupational Nealth and Safety Act, 1993 (Act No. 85 of 1993) - Noise Induced Hearing Loss Pegulations	None (complete	None
				2	Communication breakdown	Safety	Noise from the pressurised air	None	Employees/ Contractors/ Visitors	Supervisor/ Manager	18 Monthly for 8 hrs	Medical	Two way communication	3 B	III	F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational N Health and Safety Act, 1993 (Act No. 85 of 1993) - Noise Induced Hearing Loss Regulations	None (Complete	None
		5	High Pressurised air	1	Contact with high pressure air	Safety	Equipment failure	None	Employees/ Contractors	Supervisor/ Manager	36monthly, 8hrs	LTI	Following the correct Procedure, risk assessment, PPE	4 B	III	F	Task specific risk assessment	Behavioural safety observations and continuous supervision	Supervisor/ Manager	Occupational N Health and Safety Act, 1993 (Act No.	None	Complete	None
		6	Working at heights	1	Falling from height	Safety	Incorrect use of ladder	Working at heights rescue training	Employees	Supervisor/ Manager	Quarterly, 1hr	LTI	Working at heights training, Ladder inspections and safety clearance for working at heights	4 B	III	F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Nealth and Safety Act, 1993 (Act No. 85 of 1993) - GN R1031 -GSR, 1986	None (Complete	None
		7	Isolating/de-isolating electrical supplies	1	Electric shock	Safety	Contact	None	Employees	Supervisor/ Manager	Quarterly, 1hr	LTI	Isolation, test before touch	4 B	III	F	Task specific risk assessment		Supervisor/ Manager	Occupational N Health and Safety Act, 1993 (Act No.	None (Complete	None
		8	Opening and closing valves	1	Body muscle sprain/strain	Health	operating mechanically tight valves/location of the valve	Ergonomics risk assessment to be done	Employees	Supervisor/ Manager	Quarterly, 1hr	Medical	Two man rule	3 B	III	F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993	None (Complete	None
Geyser maintenance	N	1	Hot water	1	Burn injuries	Safety	Lack of concentration, accidental splash, horseplay, crowded space		Employees/ Contractors	Supervisor/ Manager	Daily, 1hrs	Medical	Awareness	3 B	III	F	Task specific risk assessment	Behavioural safety observations	Supervisor/ Manager	Occupational Health and Safety Act, Act No. 85 of 1993	None (Complete	None
Testing of Fire Detectors	R	1	Working at heights	1	Falling from height	Safety	Missing a step while climbing up or down	Working at heights rescue training	Employees	Supervisor/ Manager	5 Weekly for 1 hr	LTI	Ladder training, working at heights training, inspections, safety clearance for working at heights	4 B		F	Task specific risk assessment		Supervisor/ Manager	Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) - GN R1031 -GSR, 1986	None (complete	None
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