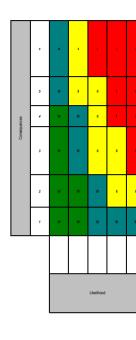
Business/Operating unit:	NATIONAL TRANSMISSI	ON COMI	PANY SOUTH AFRICA (NTCSA)						Department:	Occupational Health an Power Delivery: H&S	nd Safety Baseline risk as	sessment template								Next Review Date (every 2 years):	20260409	Template identifier:	240-70044602
	PROJECT: Civil Pane	el Works	S						Prepared by:			Ai	uthorised by:	Name: Vusi M Designation: 0		Health and Safety	Agent			•		Document identifier Revision number:	1
										Refer to Occupational He	aith and Safety Risk assessme	nt procedure 32-520		Signed: VA								Revision date:	31-May-24
List activity	Activity type (Routine/Non-routine)	Hezard nr	r Hazard Memilication	Risk Nr	Associated risk	Risk type	Cause(a) of the risk	Exposed group/employees	Risk Owner	Exposure patterns	What are the possible consequences?	Existing Controls			Bui		Additional Controls or Tasks Almed at improving Existing Controls Include:	Monitoring Mechanisms	Control Owner	Legal and Other Requirements	Target Date	Current Status	Integrated Pisk Management (POM) reference number
List specific activities to be performed taking into consistention 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 injury, it health or damage could occur as a result of uncorteoiled hazard.	Safety or health	What causes the risk to come into effect?	Who is exposed to the hazard i.e. visitors, members of the public, etc.	Who is accountable for making sure the controls and monitors are: - in place, - in place, - regularly reviewed for effectiveness.	The frequency and duration the person/group is exposed to the heared e.g. Daily for 3 hrs.	Consider the worse case scenario without controls?	Describes Controls  Control Replacements to winning hazards or reduce the liashbood of the lask occurring, and  - Restrict Consult  - Restrict Con	Consequence	Leathood	Rak Morky Rar	RCE Risk Control Effectiveness	Inchestical Controls (Inchestical Controls) (Inchestical Controls) explaned to uliminate hazards or reduce the illustration of the risk occurring), and  — Parameta Controls — Parameta Controls — Parameta Controls — Resident Controls — Administrative controls — Administrative controls — Resident Controls —	How we lected we are succeeding, include comments on effectiveness. This may exclude it. measurements, respections, supervision where recessary.	Person allocated the responsibility for implementing the agreed controls	Where relevant, list the relevant legislative and or Eslom sequiments that prescribe the control.	Once a date has been agreed to, this can not be changed	Pending, In Progress, Complete	Where applicable, add RM system reference number for tracking of treatment actions.
Identification and demarcation of protected and/or listed vegetation at the identified construction location.	R	1	Uneven surfaces (rocks, tree stumps, etc)	1,1	Slips, trips and falls	Safety	Obstacles on the surface; Poor houselkeping; Lack of concentration; Sippery surfaces (loose stones and wet surface)	Surveyors; Environmental and Health and Safety personnel	PM	8 hours	Medical injury	Awareness training during inductions for employees and visitors tobe aware of their surroundings, i.e tree stumps, loose rock material, and other obstacles.	3	В		Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act; Construction Regulations 7(6);	TBA	Pending.	
		2	Biological Hazards (snakes, bees, scorpions etc)	2,1	Snake bites and bee and scorpion stings	Safety	Coming into contact with snakes,bees, scorpions, spiders etc	Surveyors; Environmental personnel Health and Safety personnel	PM	8 hours	LTI	Awareness training on snakes, bees, scorpions etc; Appoint snake handers and persons with knowledge of bees and similar insects.	3	В	-	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act Section 8	TBA	Pending.	
		3	Extreme weather conditions (heat , cold)	3,1	Dehydration / Frost bite / hypo and hyperthermia	Huith	Exposure to extreme weather conditions; Inadequate rehydration / waterfluid intake; Inadequate or failure to provide suitable PPE	Surveyors; Environmental personnel Health and Safety personnel	PM	8 hours	Medical injury	Ensure adequate water supply on site: Work rotation, Regular work breaks; Overalls with logisters, safety boots; Warm thermal jackets for winter;	3	В		Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act; Environmental Regulations for Workplaces 2; Eskom's Personal Protective Equipment Specification 240- 44175132	TBA	Pending.	
Bush & shrub clearing and tree felling	R	4	Biological hazards;	4,1	Snake bites and bee and scorpion stings	Health	Contact with snakes, bees, scorpions, spiders etc	Bush clearing team	PM	8 hours	LTI	Site specific SHE induction: Appoint ranks harders and persons with knowledge of bees and similar insects; Awareness training on how to react when faced with snakes, bees, scorpions etc;	4	В	-	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act; Eskom's Personal Protective Equipment Specification 240- 44175132	TBA	Pending.	
		5	Uneven surfaces (rocks, tree stumps, etc)	5,1	Slips, trips and falls	Safety	Mis-stepping; Obstacles on the surface; poor housekeeping; Inateration while walking; Slippery surfaces (loose stones and wet surface)	Bush clearing team	PM	8 hours	Medical injury	Remove obstacles on the surface; Practice good housekeeping; Awareness training Regular inspection of workplace.	3	В		Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act Section 8	TBA	Pending.	
		6	HandPower tools e.g. chain saw; hand saws and other outing tools	6,1	Injuries	Safety	Lack of training; incorrect use of equipment Use of defective equipment Poor supervision; Failure to follow procedures	Bush clearing team	PM	8 hours	Medical injury	Operators shall be trained / Awareness training: Work rotation / regular breaks; Develop a maintenance schedule for all machinery. Provide general supervision; Develop safe suck procedures, and communicate to all employees.	4	В	-	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act Section 8	TBA	Pending.	
		7	Cutting of trees	7,1	Injuries	Safety	Lack of training; Lack of concentration; Poor supervision; Failure to follow procedures; Failure to put on correct PPE	Bush clearing team	PM	8 hours	Medical injury	Operators shall be trained / Awareness training: Work rotation / regular breals; Develop a maintenance schedule for all machinery, Provide general supervision; Develop safe work procedures, and communicate to all employees.	4	В	-	Mostly effective	Contractor shall develop and implement additional controls and nating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction managet/kepervisor	OHS Act Section 8	TBA	Pending.	
		8	Moving machinery (eg TLB);	8,1	Struck by	Safety	Lack of warning alarm on machinery e.g. reverse hooter/alarm; Lack of observation operating TLB Failure to demarcate walk areas; Failure to appoint competent flagmen	Bush clearing team	PM	8 hours	Family	Operators shall be trained; Awareness training; Develop a site specific traffic plan; Provide trained flagmen and give them high visibility vests.	5	В		Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act Section 8 CR 22-1-d	TBA	Pending.	
		9	Noise & dust from bush/tree/branch shredder (wood chipper)	9,1	Noise induced hearing loss; Lunghespiratory diseases;	Health	Exposure to noise level above 85dB; Exposure to or inhalation of wood/saw dust.	Bush clearing team	PM	8 hours	LTI	Provide and train employees on use of PPE (ear protection); Conduct health risk assessment and surveys; Communicate survey results / recommendations to employees; Provide supervision.	4	С		Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	NHLR; Eskom's Medical Surveillance Procedure 240- 84733329.	TBA	Pending.	
		10	Extreme weather conditions (heat , cold, dust)	10,1	Frost bite / hypo and hyperthermia	Health	Failure to conduct health risk assessment; Failure to provide PPE (thermal gloves and jackets, wide brim hats etc)	Bush clearing team	PM	8 hours	Medical injury	Provide and train employees on use of PPE; Conduct health risk assessment and surveys; Communicate survey results / recommendations to employees; Provide supervision.	3	В	-	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	Environmental Regulations for Workplaces 2; Eskom's Personal Protective Equipment Specification 240- 44175132	TBA	Pending.	
Access road/offloading pad construction	N	11	Groundlearth grading equipment Le graders	11,1	Struck by: Notice: Notice: Description of the structure o	health	Failure to develop/iradequate ste Untrained inexperience operate. Failure to spoke competer flagmer, Failure to sloke instructions; Failure to sloke instructions; Failure to enforce the commendations of the CH recommendations of the CH PPE to use.	Civil team	PM	8 hours	Fatality	Contractor shall develop a site specific radiic plan, as per Section-8 of SHE Specification From 74 (Contraction From 54 SHE Specification From 74 (Contraction From 54 SHE Specification From 74 (Contraction From 54 SHE	5	С		Mostly effective	Contractor shall develop and implement additional contracts and strip post implementation of these additional contracts.	Eskom Inspections and Audits on Contractor	PMConstruction manager/lupen/stor	OHS Act Section 8 Exicur's Occupational Hygiene Management Guideline PDPMAN- GL-50, Section 4.4.2.1 on Medical Surveillance CR 23 (1)(d): Construction Vehicles & Mobile Plant;	TBA	Punding.	
		12	Excavaling equipment e.g. TLB	12,1	Overlanning/capaciting (Accidents)	Safety	Failure to develop/iradioguate site traffic plan.  Failure to appoint competent flagment.  Failure to specific competent flagment.  Failure to provide PPE and enforce the recommendations of the CPF unwep & members of the CPF unwep & memb	Civil team	PM	8 hours	Fatality	Contractor hall develop a die specific valle place, as per Section de 164 Septicalization Ford Part (Construction Verbicita and Mobile Plant);  (Construction Verbicita and Mobile Plant);  (Construction Verbicita and Mobile Plant);  (Construction Verbicita);  (Construction of entire that construction supervisors verbicitation of entire verbicitation verbici	5	В		Mostly effective	Contractor shall develop and implement additional additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction managestrupenisor	OHS Act Section 8 Eskom's Occupational Hygiene Marragement Guideline PDPMAN- GL-50, Section 4.4.2.1 on Medical Surveillance CR 23 (1)(d): Construction Vehicles & Mobile Plant;	TBA	Pending.	
Site Establishment	R	13	Mobile Plant, e.g. TLB	13,1	Struck by: Note: Note: Whole: Whole body whrations	Safety or	Failure to develop / iradioguate site traffic plar.  Untrained / irangerience operator, Failure to appoint competent flagment, Failure to conduct Occupation Hygiene surveys.  Failure to provide PPE and enforce the recommendations of the CPI surveys/link assessment	Site establishment team	PM	8 hours	Fatality	Comment of all directlys as the specific self-spine, as per discious self-offs Specification Ford Plan Specification Ford File Specification Ford File Specification Ford File Specification Ford File Specification File Spec	5	В		Mostly effective	Contractor shall develop and implement additional controls and sifting post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act Section 8 Exicum's Occupational Hygiene Marnagement Gusteline PDPMAN- GL-50, Section 4.4.2.1 on Medical Surveillance CR 23 (1)(d): Construction Vehicles 8 Mobile Plant;	TBA	Pending.	
		14	Electrical connections to prefabricated offices	14,1	Electrocution	Safety	Incorrect wiring: Lack of or inadequate Log Out-Tag-Out system; Lack of supervision; Failure to test before touching; Unskilled / untrained electrician;	Site establishment team	PM	8 hours	Fatality	Eskont's Life Saving Rules, Rule 1: Open, isolate, earth, test; bond, before touch; Electrical Installation Regulations 2, 5 and 6; Training and supervision	5	В		Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act EIR Eskom's Life Saving Rules	TBA	Pending.	
		15	Lifting operations (e.g. Offloading of Prefrabricated office)	15,1	Failure of the lifting equipment/ dislodgement of object	Safety	Use of understed / defective lifting equipment; Failure to maintain lifting equipment; Failure to follow safe work procedures; Lack of training of operator; Poor lifting methods/techniques	Site establishment team	PM	8 hours	Fatality	Appoint computent singer (SANS 12480-1 Section 5.4 (singer), Appoint computent came operator (SANS 12480-1 Section 5.2 Came driver & Section 5.3 : Develop a maintenance schedule as per manufacturer's manual. This supervisions, operators, employees on safe work procedures.	5	В		Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act SANS 12480-1	TBA	Pending.	
Surveying & Pegging	R	16	Hand tools, eg. Hammer ;	16,1	Hand / Finger struck by hand tools	Safety	Lack of attention; Incorrect work position; Defective tools.	Surveying Team	PM	8 hours	Medical injury	Awareness training of employees in the use of hand tools like hammers, spanners, chisels etc; Inspection of tools before use; Supervision.	3	В	-	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act	TBA	Pending.	
		17	Extreme weather conditions	17,1	Dehydration / Frost bite / hypo and hyperthermia	Health	Inadequate water supply, inadequate or failure to provide suitable PPE (thermal gloves and jackets, wide brim hats etc); ensure good ergonomic regime	Surveying Team	PM	8 hours	Medical injury	Work rotation, Regular work breaks; Overalls with long sleeve, safety boots; Warm thermal jackets for winter.	3	В	-	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/kepervisor	Environmental Regulations for Workplaces 2; Eskom's Personal Protective Equipment Specification 240- 44175132	TBA	Pending.	
		18	Biological hazards (snakes, bees, scorpions); Wild animals	18,1	Snake & spider bites, bee stings, etc; Animal attacks	Health	Contact with snakes, bees, scorpions, spiders etc. Contact with wild animals	Surveying Team	PM	8 hours	Fatality	Awareness training Induction training Appointment of trained snake handlers; Awareness staining on how to react when faced with wild animals. Pence off animals and prevent contact with workers.	5	В		Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act	TBA	Pending.	

R	Safety	1	A	Fully effective	
N	Health	2	В	Mostly effective	- 1
		3	c	Mostly ineffective	
		4		None	W
		5	E		
		6			



Platform / Terrace Earthworks	R	19	Mobile Plant, e.g. TLB	19,1	Streek by: Obset: Equipment vibrations	Safety o health	Failure to develop / inadioguate site traffic plan: Untrained / insequence operator; Failure to appoint competent flagmen; Failure to product of Congation Hygiene surveys: Failure to provide PPE and enforce the recommendations of the CM surveys that assessment	Earthworks Team	PM	8 h	iours	Fatality	October shall devise a sine specific staff plan, as presented and staff specific staff staff specific staff staff specific staff sta	5	8	Mostly effective	Contractor shall develop and implement additional controls and siting post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/bugservicor	OHS Act Section 8 Eskom's Occupational Hygiene Management Guideline PDPMM- GL-50, Section 4.2.1 on Medical Surveillance CR 23 (1)(d): Construction Vehicles & Mobile Plant,	TBA	Pending.	
		20	Noise	20,1	Noise induced hearing loss	Safety	Failure to provide and train and use hearing protection; Failure to supervise use of ear protection	Earthworks Team	PM	8 hours		ĽΠ	Provide and train employees on use of PPE (ear protection); Conduct health risk assessment and communicate to employees; Provide supervision.	4	с =	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	NHLR; Eskom's Medical Surveillance Procedure 240- 84733329.	TBA	Pending.	
		21	Oils and other petroleum material from mobile plant	21,1	Oil spillage leading to ground water contamination	Health	Failure to maintain 8 service equipment Failure to provide adequate dip trays Failure to perform regular inspection	Earthworks Team	PM	8 h	iours	ETI	Train / inform employees on the handling of HCS: Conduct continuous occupational hygiens surveys; Provide MSDS for all charriests in res. Provide adequate strongs facilities: Provide suitable PFE (respirators, PVC suits, depending on the HCS in question)	4	в	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act HCSR Eskom's Personal Protective Equipment Specification 240- 44175132	TBA	Pending.	
Excavation / trenching	R	22	Collapse of excavation walls (cave-in);	22,1	Entrapmentingulment of persons inside the excavation	Safety	Unotable excavation; Unotablized or unsupported excavation;	Excavation team; Members of the Public; Animals	PM	8 h	iours	Estelitu	The Contractor to submit the proposed foundation and soil type nomination schedules to the Design Engineer as per Esisten Procedure 260-47172520 in Contractor 260-4717250 in Contractor 260-4717250 in Contractor 260-4717250 in Contractor 260-4717250 in Contractor to ensure excavation is adequately shored and braced as per Construction Regulations 13	5	В	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom inspections and Audits on Contractor	PMConstruction minager/supervisor	OHS Act Eskom Procedure 240- 47172520 "The design and construction of overhead power lines", Section 6.5. (Excavations); Construction Regulations 13	TBA	Pending.	
		23	Underground services (services pipes eletrical & telecoms cables etc);	23,1	Damage to underground services; Electric shocks	Safety	Failure to perform or conduct correct underground scan; Failure to communicate results of tests for underground services to operator; Unavailability of plans for underground services.	Excavation team; Members of the Public; Animals	РМ	8 h	iours	Fatality	Use underground services detector (eg cable detector) to identify (frace underground services; Obtain and use underground service plan; Obtain and use underground service plan; Communicate the results of the tests to all employees.	5	в	Mostly effective	Contractor shall develop and implement additional controls and nating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act CR 13(2-g);	TBA	Pending.	
		24	Material / people/ animals falling into excavation	24,1	Injuries to employees / animals;	Safety	Failure to barricade the excavation area; Failure to warn of danger.	Excavation team; Members of the Public; Animals	PM	8 h	ours	LTI	Provide warning signs & barricading to warn and prevent people and animals from falling onto excavation.	4	в =	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act CR 13 (2-l)	TBA	Pending.	
		25	Moving machinery (e.g. TLB);	25,1	struck by	Safety	Lack of reverse alarm on machinery; Failure to train and provide a flagman; Untrained flagman; Inadequate supervision; No log-out-tag- out system in place leading to operation of machine by incompetent person.	Excavation team; Visitors;	PM	8 h	iours	Fatality	Ensure operators are competent, Provide trained flagmen; Supervision (remumb the moving machinery is at a safe distance from the excavation); Erect barricading around excavation.	5	В	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act; CR 13 (2-d)	TBA	Pending.	
		26	Oxygen deficiency in the excavation	26,1	Asphyxiation to operators in the excavation	Safety	Entering the excavation without performing oxygen tests.	Excavation team operators;	PM	8 h	iours	Fatality	Operators must be competent to operate the machinery, Ensure there are trained flagmen during operations; Provide adequate supervision; Provide high visibility PPE.	5	в	Mostly effective	Contractor shall develop and implement additional controls and nating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act; CR 23 (1-d-i); Eskom Procedure 39- 98 Section 2.6 & 2.18	TBA	Pending,	
		27	Dust from excavation process/activity	y 27,1	Dust inhalation leading to (lung) respiratory health diseases	Health	Exposure to dust without using respiratory protection equipment (RPE);	Excavation team;	PM	8 h	iours	Medical	Eskom's Occupational Hygiene Management Guideline PDPMAN-GL-50, Section 4.4.2.1 on Medical Surveillance; Conduct health risk assessment and communicate hazards to employees; Provide hearing and respiratory protection, and supervisor their users.	4	c =	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act; NHLR; Eskomis Medical Surveillance Procedure 240- 84733329.	TBA	Pending.	
		28	Possible collection of water (damming)	28,1	Drowning	Safety	Rain water and/or damage to under- surface services e.g. water line	Excavation team, Project team members; Visitors; animals; members of the public	Ptst	8 h	iours	Fatality	Solid barricading as per the Health and Safety specification.	5	в	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act Sec 8; Eskom Personal Protective Equipment Specification 240- 44175132:Eskom Medical Surveillance Procedure 240- 84733329.	ТВА	Pending.	
Working with Cement	R	29	Dust/Wet Cornent:	29.1	Mesothelioms, Cement burns and Dermatitis	Health	Failure to conduct health risk assessment and surveys: Pallure to inform employees of survey Failure to inform employees of hazard; Failure to provide suitable PPE	Construction team	PM	8 h	lours	LTI	Esionis Occupational Hyglene Management Guideline PDPMAN-GL-50, Section 4.4.2.1 on Medical Surveilland Policy Confection of A.2.1 on Medical Surveilland Policy Communicate surveys; Conduct health risk assessment and surveys; Communicate surveys results and hazards to employees. Provide sameness training for cement work; Provide sameness training for cement work; Persona mising concrete to use proper PPE rectuding gumbooks; safely prospects, safely gloves, respiratory protection etc.	4	C =	Mostly effective	Contractor shall develop and implement additional controls and rating pool implementation of these additional controls.	Eskom inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act Section 8; HCSR; Eskom's Personal Protective Equipment Specification 240- 44175132; Eskom's Medical Surveillance Procedure 240- 8473329.	TBA	Pending.	
		30	Ergonomics hazards	30.1	Body aches, muscles injuries, sprains, etc	Health	Inadequate workplace risk assessment to identify egornomic risks e.g. awkward positions, overexention, working in high temperatures, etc	Construction team	PM	8 h	ours		Exiconis Occupational Hygiene Management Guideline DPMAN-QL-60, Section 4.4.2.1 on Medical Surveilland Color Control Color Color Conduct health risk assessment surveys; Communicate survey results to employees; Communicate hazards to employees; Avairancess training on correct posture techniques; Job rotation and work rest periods	3	с =	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act; Eskom's Occupational Hygiene Management Guideline PDPMAN- GL-50.	TBA	Pending.	
Yardworks	R	31	Open excavation	31.1	Fall into	Safety	Failure to post warming signs; Failure to barricade excavation; Failure to make aware.	Yardworks Team	PM	8 h	nours Me	edical injury	OHS Act Sec 8, Construction Regulations 13, the project Health and Safety Specification; this Baseline Risk Assessment	3	с =	Mostly effective	Contractor to develop excavation procedure; Contractor to appoint excavation supervisor to inspect the excavations on regular basis; Contractor to protect the excavations with sold barricading accompanied by warning signs.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act; CR 13(2-j)	ТВА	Pending.	
		32	Mobile Plant (e.g. gradurs, TLB etc.):	32.1	Struck by: Notice Whole body vibrations	Safety o health	Failure to develop / Iradequate site traffic per. Pailure support competer flagment Failure to appoint competer flagment Failure to failure inschooling. Indicate the failure flagment surveys. Indicate flagment flagment flagment surveys. Indicate flagment flagment flagment surveys.	Yardworks Team	PM	8 h	oours Fat	tality	Construction Regulations 23 (1)(d): Health and construction National Party. Term 14 (Construction National Academy Per Pality Construction National Academy Per Pality Construction National Nat	5	C	Mostly effective	Contractor shall appoint competent operator, con the machinery, Contractor shall ensure a flagman is dissignated. Contractor shall ensure a flagman is dissignated. Contractor shall ensure effective shall contract the ensure Ling-Contractor shall ensure effective shall contract a result some shall contract the ensure Ling-Contractor shall conduct a risk assessment and communication the exists a Contract shall conduct the risk of the communication the exists a Contract shall conduct the risk of the contract shall conduct the risk of the contract the contract shall conduct the risk of the contract shall conduct the risk of the contract shall contract the risk of the contract shall be contracted by the contra	Eakom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act Heath & Safety Specification Form 74; Construction Regulations 23	TBA	Pending.	
		33	Roller / wacker (during compaction of filling material)	33.1	Struck by;	Safety	Use of equipment by incompetent operator; incorrect use of equipment; Failure to conduct risk assessment;	Yardworks Team	PM	8 h	ours LTI	ı	OHS Act Sec 8; Construction Regulations 24; the project Health and Safety Specification; this Baseline Risk Assessment	4	с п	Mostly effective	Contractor shall appoint a competent operator, Contractor to conduct equipment risk assessment and communicate results & recommended controls thereof to the operator.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act	TBA	Pending.	
				33.2	Repetitive strain injuries	Safety	Prolonged use of wacker machine; Inadequate training for operators; Use of compaction equipment without suitable and adequate PPE	Wacker operators	PM	8 h	ours LTI		OHS Act Sec 8; General safety Regulations 2; the project Health and Safety Specification; this Baseline Risk Assessment	4	с =		Contractor shall develop and implement additional controls and rating post implementation of these additional controls.						
		34	Trooler Machine	34.1	Exposure to radiation	Health	suitable and adequate PPE  Failure to train / inform; Failure to demacate no-go zone for unauthroited personnel; Failure to provide adequate storage facilities; Inadequate supenvision.	Yardworks Team	PM	8 h	iours LTI		Contractor half procure the services of a competent person to operate towler. Contractor half determine the level of radiation entitled by the trooker. Post stignage and demorates the area where the Provide defect supportation; Work rotation; Provide awareness on the trooker during toolbox table.	4	в	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PAIConstruction manager/supervisor	OHS Act HCSR	TBA	Pending,	
Foundations Works (e.g. Main bases, equipment bases, busbar support foundations, floodilights and earthwire supports)	R	35	Open Excavations	35.1	Collapse of excavation walls	Safety	Soft and unstable excavation walls. Unsupported or unstabilized weak excavation walls.	Foundation and other relevant teams	PM	8 h	iours Faf	tality	CHS Act Sec 8, Construction Regulations 9, Health and Safety Specification and this Baseline Risk Assessment	5	С	Mostly effective	Contractor shall ensure soil study before excandion activity. Contractor shall ensure be weak and soft executation is effectively stabilished and supported e.g. bracing, shoring, battering, etc.	Eskom Inspections and Audits on Contractor	PMConstruction minager/supervisor	OHS Act; Construction Regulations 13; this Baseline Risk Assessment; the project Health and Safety Specification	TBA	Pending.	
				35.2	Falling into	Safety	Unbarricaded open excavation; Failure to warm of danger	Foundation team; visitors and other project team memmbers	PM	8 h	iours LTI		OHS Act Sec 8, Health and Safety Specification, this Baseline Risk Assessment	4	С	Mostly effective	Contractor shall ensure that solid barricadings accompanied by saming signs are installed around the excavations.	Eskom inspections and Audits on Contractor	PM/Construction manager/supervisor	OHS Act; Construction Regulations 13; this Baseline Risk Assessment, the project Health and Safety Specification	TBA	Pending.	
				35.3	Accumulation of natural gasses leading to asphysiation to operators	Safety	Failure to perform Oxygen tests in the excavation	Foundation team; visitors and other project team memmbers	PM	8 h	iours Fat	iality	OHS Act Sec 8, Health and Safely Specification, this Baseline Risk Assessment	4	C II	Mostly effective	Contractor shall ensure that continuous crygen lests are performed before and during works in the excession	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act; Construction Regulations 13; this Baseline Risk Assessment; the project Health and Safety Specification	TBA	Pending.	

						Failure to train / warn of hazards; Lack of supervision; Lack of knowledge;					Persons mixing concrete to use proper PPE including gumboots safety gogggles, long PVC gloves, respiratory protection etc;						OHS Act Eskom's Personal			
		36 Wet Concrete/cement	36.1	Concrete burns	Safety	Lack of/Inadequate PPE.	Foundation and other relevant teams	PM	8 hours	LTI	Training of supervisors, and sweeness training of relevant employees on Eskinn Procedure 240- 4171250 "The design and construction of overhead power lines", Section 6.8 Concrete Foundations: Supervisor to be present during delivery to ensure that raw material delivered to site is up to specifications.	4 B	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supenvisor	Protective Equipment Specification 240- 44175132 Eskom's Medical Surveillance Procedure 240- 84733329.	TBA	Pending.	
		37 Dry Cement (dust)	37.1	Lungirespiratory infections/diseases	Health	inaloequate risk assessment; Failure to warm of danger Lack of supervision; Failure to use appropriate respiratory protective equipment.	Foundation and other relevant teams	PM	8 hours	L71	Contractor to conduct a health risk assessment, leform employees of hazards caused by concrete; Provide direct supervision; Provide suitable PPE (dust masks, full body PVC said).	4 B	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act GSR 2 Eskom's Personal Protective Equipment Specification 240- 44175132	TBA	Pending.	
		38 Pinch points from Formwork/shuttering	g 38.1	handfinger injuries	Safety	Inadequate/ineffective risk assessment, Failure to warn and inform workers of risks at hand; Failure to wear correct PPE recommended by the relevant risk assessment; Poor supervision.	Foundation and other relevant teams	PM	8 hours	LTI	OHS Act Section 8; General Safety Regulations 2; the project Health and Safety Specification; this Baseline Risk Assessment	4 C	Mostly effective	Contractor shall conduct risk assessment from which control and PPE shall be recommended and communicated with workers; Contractor shall ensure effective supervision.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act CR 13-2-i	TBA	Pending.	
		39 Flying objects and particles from Blasti	ing 30.1	figuries to persons and damage to property,	Safety	Fallure by Contrator / blasting service provides to determine the danger area, as well as authorised entry / ext points; Fallure to ensure that the safe datances are applied for the relevant explosive category; Fallure to use the services of a competent service provider for blasting, and appoint competent and certificated person. Fallure to communicate blasting reformation/waterning.	Foundation and other relevant teams	PM	8 hours	Fatality	Contractor / Masting service provider shall determine the danger area, as well as authorised service service of a comparator shall service of a compared service provider for basing; Contractor to engine for basing; Contractor to engine the service provider for basing; Contractor to engine the the said distances are applied for the relevant explosive category; Contractor to engine a teaming (information is contractor); Contractor to engine seaming (information in the contractor); Contractor to engine the third in the contractor of the contract	5 C	Mostly effective	Contractor shall develop and implement additional controls and sifting post implementation of these additional controls.	Eskiom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act; Explosives Regulations 6, 11 and 12	TBA	Pending.	
Erection/loading/off- loading/ installation of Fire Protection (fire walls) Manholes & sumps; piping; oil holding dams; transformer / Reactor bay;	R	Use of crarse (mechanical liftinglifor 40 loading/initialation/ eraction materials and equipment	of 40.1	Lifting equipment failure;	Safety	Indequate maintenance of lifting equipment; Using undersited lifting equipment (due to back of training of ragger); Untrained / inexperienced operator.	Fire fighting team	PM	8 hours	Fatality	Appoint competent singer (SANS 12480-1 Section 5.4 (singer); Appoint competent care operator (SANS 12480-1 Section 5.3.2 Training of care & Section 5.3.2 Training of care deliver); Section 5.3.2 Training of care deliver); Develop a maintanance schodule are per manufacturer manual; Collam free services of a competent person to test/ Obtain the services of a competent person to test/ Train appendions, operators, employees on safe sect, procedures.	5 B	II Mostly effective	Contractor shall develop and implement additional controls and rating-post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act SANS 12480-1	TBA	Pending.	
		41 Open excavation	41.1	Collapse; Fal into; Enguliment	Safety	Type of soil structure; Failure to batter sides and ends; Failure to support with finither, sheeting or other support systems; Inadequate / No shoring; Inadequate safety signage	Fire fighting team	PM	8 hours	Fatality	The Contractor to submit the proposed foundation and soil tipes remination schedules to the Design Engineer as per Estam Procedure 2404-4717260. The design and construction of overhead power lines'. Section 6.5.1: Contractor to ensure excavation is adequately shored and braced as per Construction Regulations 13	5 B	II Mostly effective	Contractor shall develop and implement additional controls and siting post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	Eskam Procedure 240- 47172520 "The design and construction of overhead power lines", Section 6.5.1 CR 13	TBA	Pending.	
		42 Moving-machinery (graders, TLB etc)	42.1	Struck by: Notice: Dust: Whole body vibrations	Safety or health	Falure to develop / inadequate site staffic plan; Untrained / insuperience operator; Falure to aportic competent flagmer; Falure to conduct Occupation Hygiene Falure to provide PPS and enforce the encommendations of the OH surveys	Fire fighting team	PM	8 hours	Fatality	Contractor shall develop a site specific traffic plans, as or Section 6 of 54% Specification From 74 or Section 6 of 54% Specification From 74 or Section 6 of 54% Specification From 74 or Section 6 of 54% Specification 74 (1)(6) Construction Seguitation 22 (1)(6) Construction Geographic 20 (2)(6) Construction From 74 (Construction From 74 (Constructi	5 B	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMContraction manager/supervisor	OHS Act. SHE Specification Form 74: Eskom's Coccupational Hygiene Management Guideline PDPMAN- GL-60; CR	TBA	Pending.	
Drainage system erection	R	43 Trenching	43.1	Collapse of trench; Fal into; Enguliment	Safety	Type of soil structure: Failure to batter sides and ends; Failure to or inadquate shoring.	Excavation team	PM	8 hours	Fatality	The Contractor to submit the proposed froundation and sail type nontimition solidades to the Design and South Processes 240-4715230  The design and construction of overhead power lines; Section 65.1; Contractor to ensure excavation is adequately shorted and braced as per Construction Regulations 13.	5 B	II Mostly effective	Contractor shall develop and implement additional controls and sifting post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supen/sor	OHS Act Eskom Procedure 240- 47172520 "The design and construction of overhead power lines", Section 6.5.1 CR 13	TBA	Pending.	
		44 Storm water pipe layling/storage	44.1	Pipe roll and crush employees	Safety	Inadequate risk assessment, Failure to train / inform employees to put stoppers underneath pipes.	Excavation team	PM	8 hours	LTI	Contractor shall develop a safe work procedure; Contractor shall instruct employees to put stoppers underneath pipes, as per risk assessment.  User of wacker shall be trained and competent to	4 B	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.  Contractor shall develop and implement additional	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act CR 9	ТВА	Pending.	
		45 Roller / wacker during compacting of filling material.	45.1	Crushing	Safety	Untrained operator; Lack of attention.	Excavation team	PM	8 hours	LTI	use it; Regular breaks and job rotation.	4 B	Mostly effective	controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act	TBA	Pending.	
Construction of Transformer / Reactor Plinths	R	Moving machinery (Cranes, constructive vehicles, etc.)	ion 46.1	Struck by; Failure of lifting equipment	Safety	Failure to develop / inadequate site traffic plarc Unfrained / inexperience operator; Failure to appoint competer flagmen; indequate maintenance of titing equipment; Using understeed lifting equipment.	Reactor Plinth team	PM	8 hours	Fatality	Contractor shall develop a the specific traffic plans appression of sof SHE Specification Four 74 (Construction Vehicles and Mobile Plant); Construction Selection persisters shall be trained Construction Regulations 22 (1)(e); Construction Social Construction Selection Select	5 B	II Mostly effective	Contractor shall develop and implement additional controls and safing post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supsir/sor	OHS Act SHE Specification Form 74 CR 23 (1)(d)	ТВА	Pending.	
		Offloading material using lifting equipment	47.1	Struck by: Failure of lifting equipment:	Safety	Untrained / inexperience operator: Failure to appoint competent flagmen; indequate maintenance of fitting equipment. Using understed lifting equipment.	Reactor Plinth team	PM	8 hours	Fatality	Appoir competent stinger (SANS 12480-1 Section 4,4 (singer), 4 paper) competent rame apoprator (SANS 12480-1 Section 5.3 Crane driver & Section 5.3.3 Training of carne driver). Develop a maintenance schoolde as per market laure in found a competent person to test / maintain lifting equipment. Train supervision, operators, employees on safe work procedures.	5 B	II Mostly effective	Contractor shall develop and implement additional controls and saling post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act SANS 12480-1	TBA	Pending.	
		48 Ergonomics (during assembly of steel structure)	48.1	Muscular skeletal disorders	Safety	Awkward body position Repetitive body motion caused by bending and testing actions Inadequate training and underlying medical conditions	Reactor Plinth team	PM	8 hours	נח	Eslom's Occupational Hygiene Management Outdeline PDPMAN-61.00, Section 4.2.1 on Ocndech beath risk assessment and communicate huzards to employeess: Awareness training on cornect lifting techniques; Job rotation and work rest periods	4 B	Mostly effective	Contractor shall develop and implement additional controls and railing post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	Eskom's Occupational Hygiene Management Guideline PDPMAN- GL-50, Section 4-42.1 on Medical Surveillance CR 9	TBA	Pending.	
Digging cable trenches, ducts, junctions and ramps	R	49 Picks, shovels, etc	49.1	Struck by	Safety	Lack of attention / concentration; Awkward position Inadequate hand tool inspection / maintanance	Trenching team	PM	8 hours	LTI	Supervision; Job rotation and regular work rest periods.	4 B	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act	TBA	Pending.	
Installation of support steel	R	Moving machinery (Cranes, construction vehicles, etc.)	ion 50.1	Struck by	Safety	Failure to develop / inadequate site traffic plar. Untrained / inexperience operator; Failure to appoint competer flagmer, Lack of operator training; Lack of concentration; Failure to demarcate walk areas.	Installation team	PM	8 hours	Fatality	Contractor shall develop a site specific traffic plan, as per Section 44 of 54% Seporicions Form 74 (Construction Vehicles and Mobile Plant); Construction vehicles and Mobile Plant (Construction Vehicles and Mobile Plant (Construction Vehicles (Construction Vehicles & Mobile Plant; College Construction Vehicles & Mobile Plant; Construction Vehicles (Vehicles Vehicles Vehicles & Mobile Plant); Construction Vehicles (Vehicles Vehicles & Mobile Plant); Construction Vehicles (Vehicles Vehicles Vehicles & Mobile Plant); Construction Vehicles (Vehicles Vehicles Vehicles Vehicles Vehicles Vehicles Vehicles Vehicles Vehicles Vehicles (Vehicles Vehicles (Vehicles Vehicles (Vehicles Vehicles Ve	5 B	II Mostly effective	Contractor shall develop and implement additional controls and stifting post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act CR 23-1-d SHE Specification Form 74	TBA	Pending.	
		51 Offloading material using lifting equipment	51.1	Struck by: Failure of lifting equipment	Safety	Untrained / Inexperience operator; Failure to appoint competent flagmen; Indequate maintenance of thing equipment; Using underated lifting equipment.	Installation team	PM	8 hours	Fatality	5.4 (singer); Appoint competent crane operator (SANS 12480-1 Section 5.3.2 Training of crane driver); Train and appoint competent flagmen; Develop a maintenance schedule as per manufacturer's manual; Train supenvisors, operators, employees on safe	5 B	II Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PM/Construction manager/supenvisor	OHS Act SANS 12480-1	TBA	Pending.	
		52 Engonomics (during assembly of steel structure)	52.1	Muscular skeletal disorders	Health	Awkward body position; Repetitive body motion caused by bending and twisting actions; Inadequate training and underlying medical conditions.	Installation team	PM	8 hours	LTI	Esiom's Occupational Hygiene Management Guideline PDPMAN-GL-50, Section 4.4.2.1 on Medical Surveillance; Conduct health risk assessment and communicate hazards to employees; Awareness training on cornect lifting techniques; Job rotation and work rest periods	4 B	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act Eskom's Occupational Hygiene Management Guideline PDPMAN- GL-50	TBA	Pending.	
		53 Lifting equipment eg cranes (during erection of support steel	53.1	Failure of lifting equipment	Safety	Untrained / inexperience operator; Indequate maintenance of litting equipment; Failure to follow or inadequate safe such sprocedures; Using understated litting equipment (due to untrained rigger).	Installation team	PM	8 hours	Fatality	Appoint competent singer (SANS 12480-1 Section 5.4 (singer). 5.4 (singer). 5.4 (singer). 5.5 (singer). 5.6 (singer). 5.7 (singer). 6.7 (singer	5 B	II Mostly effective	Contractor shall develop and implement additional controls and railing gost implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act SANS 12480-1	TBA	Pending.	
Erection/installation of light mast	R	Moving machinery (Craries, constructive vehicles, etc.)	ion 54.1	Sinuck by	Safety	Failure to develop / inadequate site staffic plan. Untrained // inaperience operator, Failure to apport competent flagmen; Failure to democrate walk areas; Lack of attention / concentration; Failure to compete sale staffic plan.	Erection team	PM	8 hours	Fatality	Contractor shall develop a site specific traffic plan, as an election of of Set Speciation From TA section of the Set Speciation From TA section of the Set Speciation From TA section From TA	5 B	II Mostly effective	Contractor shall develop and implement additional controls and safe post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/bups relical	OHS Act SHE Specification Form 74 CR 23 (1)(d)	TBA	Pending,	

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		55	Offloading of material	55.1	Material falls onto employees, resulting in injuries	Safety	Use of understed / defective lifting equipment; Failure to maintain lifting equipment; Failure to follow written safe work procedures; Lack of training of operator.	Erection team	PM	8 hours	Fatality	Appointment of valued and competent riggers and operators; Ensure lifting equipment is tested and maintained by an accredited entity; Training of supervisors and employees on safe work procedures; Ensure machine operators are adequately trained.	5	В	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act SANS 12480-1 Eskom Procedure 39- 98	TBA	Pending,	
		56	Ergonomics (during assembling of steel structure)	56.1	Musculor skeletal disorders	Health	Awkward body position Repetitive body motion caused by bending and twisting actions Inadequate training and underlying medical conditions	Erection team	PM	8 hours	LTI	Awareness training on correct lifting techniques; Job rotation and work rest periods	4	В	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act	TBA	Pending.	
Installation of lighting and power reticulation	R	57	Working at height	57.1	Fall from height	Safety	Failure to identify suitable anchor points; Failure to inspect safety harmesses before use; Failure to secure properly (persons and objects) Lack of training	Erection team	PM	8 hours	Fatality	Eskom's Life Saving Rules, Rule 1: Open, isolate, earth, test, bond, before touch; Electrical Installation Regulations 2, 5 and 6  The Contractor to submit the proposed foundation	5	В	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act CR 10 Eskom Procedure 32- 418	TBA	Pending.	
		58	Electrical reticulation	58.1	Electric shocks	Safety	Failure to test before touching; Unskilled / untrained electrician;	Erection team	РМ	8 hours	Fatality	Into Lottractor os submit the proposed rolundarion and soil type nomination schedules to the Design Engineer as per Eskom Procedure 240-47172520 The design and construction of everthead power lines', Section 6.5.1; Contractor to ensure excavation is adequately shored and braced as per Comstruction Regulations 13	5	В	Mostly effective	Contractor shall develop and implement additional coetics and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act EIR Eskom's Life Saving Rules	ТВА	Pending.	
Erection of fencing (inner and outer security fences)	R	59	Digging/Excavating (manual/mechanical	l) 59.1°	Physical injuries e.g. muscle sprains	Safety	Incorrect use of digging/excavating equipment/bod;	Fence erection team	PM	8 hours	Fatality	OHS Act Section 8; General Safety Regulations 2; the project Health and Safety Specification; this Baseline Risk Assessment	4	С	Mostly effective	Contractor shall develop a Health and Safety Plan and submit it to the Client for evaluation/veiling. Contractor to conduct effective risk assessment which among others will give guidance on correct training and PPE required or to be provided to workers.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act Health & Safety Specification; this Baseline Risk Assessment; CR 13	TBA	Pending.	
		60	Wet Concrete	60.1	Concrete burns;	Safety	Direct skin contact with wet concrete; Failure to train / warn of hazards; Lack of supervision; Lack of supervision; Lack of supervision; Failure to put on correct PPE.	Fence erection team	PM	8 hours	ĽΠ	OHS Act Section 8: General Safety Regulations 2: the project Health and Safety Specification; this Baseline Risk Assessment	4	С	Mostly effective	Contractor shall develop a rick assessment and communicate its results and controls is workers. Connect PRE Shall be provided to workers by the contractor.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	Eskom's Occupational Hygiene Management Guideline PDPMAN- GL-50 Eskom's Personal Protective Equipment Specification 240- 44175132	TBA	Pending.	
		61	Planting of fence poles	61.1	Struck by swinging pole	Safety	Failure to ensure a controlled planting o poles; Poor communication; Incorrect method of planting poles; Lack of attention / concentration.	f Fence erection team	PM	8 hours	Medical Injury	OHS Act Section 8; General Safety Regulations 2; the project Health and Safety Specification; this Baseline Risk Assessment	3	С	Mostly effective	Contractor shall develop a Health and Safety Plan in which correct methods of planting poles/fence erection shall be outlined; Effective rick assessment for the activity shall be developed and communicated with workers;	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act; Health & Safety Specification Form 74; this Baseline Risk Assessment	ТВА	Pending.	
		62	Handrools, e.g. pilers	62.1	Caught-in between	Safety	Lack of attention / concentration; Awkward position; Inadequate hand tool inspection / maintanance	Erection team	PM	8 hours	LTI	Supervision; Job rotation and regular work rest periods; Supervisor to ensure that tools being used are properly maintained; Ensure proper work design to eliminate awkward positions.	4	В	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act	TBA	Pending,	
		63	Erganomic hazards	63,1	Musculoskeletal disorders		Award body position Repetitive body motion caused by bending and twesting actions; bandquards training and underlying landquarter large and underlying landquarter large and underlying tecomerci filting techniques; Overexertion.	Construction team	PM	8 hours	LTI	OHS Act Section 8: General Safety Regulations 2: to project Health and Safety Specification: this Baseline Sold Assessment	4	В	Mostly effective	Contractor shall develop agamente risk assessmen and communicate its results and recommendations with workers. Contractor shall adopt good agamente regimes such as jib rotation;	Eskom Inspections and Audits on Contractor	PMConstruction managet/kupetr/sor	OHS Act Health and safety Specification Form 74 Eskom's Cocquasional Hygiene Maragement Guideline PDPMAN- GL-50 This Baseline Risk Assessment, Eskom's Personal Protective Equipment Specification 240- 44175132	TBA	Pending.	
Building works	R	64	Offloading of equipment / material	64,1	Equipment / material dislodged and fall onlo employees	Safety	Failure to secure equipment / material property; Untrained inexperienced lifting equipment operator; Failure to follow safe work procedure.	Construction team	PM	8 hours	Fatality	Supervisor shall ensure that pipes are properly secured before lifting. Only trained and experienced lifting equipment operators shall do the lifting, under direct supervisor. Contractor shall develop safe work procedures for lifting, and train / inform employees accordingly.	5	В	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act SANS 12480-1	TBA	Pending.	
		65	Working at heights	65,1	Fall from height	Safety	Failure to identify suitable anchor points; Failure to inspect safety hamesses before use; Failure to secure proprety (persons and objects) Lack of / inadequate training	Construction team	PM	8 hours	Fatality	Ensure direct competent supervision for work at height activities: Supervisor shall identify suitable anchor points; Appoint competent gear controller to manage all safety harmesses and ensure they are inspected before use; Ensure all climbers are trained by an accredited service provider.	5	В	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act Eskom Working at Heights Procedure 32- 418	TBA	Pending.	
		66	Moving machinery (Crares, constructions etc.)	n 66,1	Shuck by: Dutc hease	Safety	Failure to develop / inadequate site traffic pier.  Detailed Frequentions operator.  Failure to follow retroctions.  Failure to follow retroctions.  Failure to conduct Congount Infegere schene.  John State Conduction of the Child State of th	Construction team	PM	8 hours	Fatally	Contractor shall develop a site specific traffic plans as per Sociative 8 of 5 ME Specification Form 74 (Contraction) Vehicles and Robbs Plant (Contraction Plant (Contraction) Vehicles (Contraction Plant (Contraction) Vehicles (Contra	5	8 11	Mostly effective	Contractor shall develop and implement additional controls and saling post implementation of these additional controls.	Estam Inspections and Audits on Contractor	PAECuratuction manager/layer/stor	OHS Act Set Specification Form 72 (1)(d) Estions' Occupation Hygens Management Guideline PDPMAN- GL-50	TBA	Pending.	
		67	Ergonomics	67,1	Musculoskeletal disorders	Health	Aukanard body position: Repetitive body motion caused by bending and twisting actions; bending and twisting actions; medical conditions, flower ordinary and underlying medical conditions. Overessertion.	Construction team	РМ	8 hours	LTI	Eslacris Occapational Hygiene Management Guistiene PDPMAN-GL-00, Section 4.2.1 on Medical Surveillacris to determine any underlying Medical Surveillacris to determine any underlying Conduct health field assessment and communicate hazards to employees on good ergonomics. Train I ridem employees on good ergonomics. Train I ridem employees on good ergonomics Train I ridem employees on good ergonomics Train I ridem employees on good ergonomics Jab rodation; Persons emiling concrete to use proper PPE exclusing grantoos, sufley progress, temp PVC Glovers, tempelation set.	4	8	Mostly effective	Coreactor shall develop and implement additional controls and saling post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act SHE Specification Form 74 CR 23 (1)(d) Eskom's Occupational Hygiene Management Guidoline PDPMAN- GL-51	TBA	Pending,	
External works	R	68	Offloading of equipment	68,1	Equipment dislodged and fall onto employees	Safety	Failure to secure equipment / material properly; Untrained / inexperienced lifting equipment operator; Failure to follow safe work procedure.	Construction team	PM	8 hours	Fatality	Awareness training on use of HCS; Provide MSDS for at HCS used on site: Provide HCS with adequate storage facilities; Provide subtable PPE (repirators, PVC suits, as may be applicable.	5	В	Mostly effective	Contractor shall develop and implement additional coefficis and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act SANS 12480-1	ТВА	Pending.	
		69	Ergonomic hazards	69,1	Musculoskeletal disorders	Health	Aukward body position: Repetitive body motion caused by bending and besting actions: tradequate training and underlying two properties of the properties of two correct litting behinques; Overexention.	Construction team	PM	8 hours	LTI	Estoris Occupational Hygiene Management Outsides PDPMANG-0.03 Section 4.2.1 on Medical Survisibuco. In other many underlying reactions conditions and underlying sections of the section of the section of the section hazards to employees. Train I reform employees on good emporations. Provide supervision and awareness training for cement such. Presents maning concerns to use groups PSE and the section of the section of the section of the Section of Section of	4	8	Mostly effective	Contractor shall develop and implement additional common and rating goal implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction managet/supervisor	OHS Act SHE Specification Form 74 CR 23 (1)(d) Eskom's Occupational Hygiene Management Guideline PDPMAN- GL-50	TBA	Pending.	
		70	Weedvillers under yardstone	70,1	Chemical poisoning		Failure to train / inform; Failure to provide MSDS; Failure to provide adequate storage facilities; Failure to provide PPE	Construction team	PM	8 hours	LTI	Guideline PDPMAN-GL-93, Section 4.4.2.1 on Medical Survince, to determine any underlying medical conditions; Conduct health risk assessment and communicate hazards to employees; Anders descriptions of the properties of the provided with suitable PPE (hearing protection, etc)	4	В	Mostly effective	Contractor shall develop and implement additional controls and rating post implementation of these additional controls.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act HCSR Eskom's Personal Protective Equipment Specification 240- 44175132	TBA	Pending,	
Laying of kerbs and channels	R	71	Kerb Works:Handlinglcarrying	71,1	Muscle injuries backaches	Safety	Awkward body position; Incorrect lifting lechniques; Overexention.	Construction team	PM	8 hours	LTI	Eskon's Occupational Hygiene Management Guideline PDPMAN-GL-00, Section 4.2.2 to Medical Surveillance, CHS sct Sec 8, Good litting/cam/ring techniques.	4	8	Mostly effective	Contractor shall ensure good ergonomic regimes e.g. pib intalion, register treats ett; Contractor to ensure good filtrigicarrying techniques training to his employees.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act Eskom's Occupational Hygiene Maragement Guideline PDPMAN- GL-50 Eskom's Personal Protective Equipment Specification 240- 44175132	TBA	Pending.	
		72	Cutting-breaking kerbs	72,1	Noise induced hearing loss: Lung/respiratory diseases;	Health	Exposure to equipment notes over 8548; Phalaton of dust allica.	Construction team	PM	8 hours	SI	Eslacets Occupational Hygiene Management Guideline PDPMM-M du do Section 4.2.1 on Meath and Sulfey Specification. Set the preport Meath and Sulfey Specification.	4	8	Mostly effective	Core actor shall develop adequate risk assessment and communicate the results and control thereof to contrightening regioner stat for produce Core actor shall provide to his sorbers training on mapping productive device/equipment () PPD/RPE) and the productive device/equipment () PPD/RPE)	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act Eskom's Occupational Hygiene Management Guideline PDPMAN- GL-50 Eskom's Personal Protective Equipment Specification 240- 44175132	TBA	Pending.	

Reinforcement (rebar) installation	R	73	Rebar works (Manual workhandling)	73,1	Injury to hands/lingers (cuts & pinches)	Safety	Sharp ends of the rebars; Wires; cutting tools e.g. piler	Construction team	PM	8 hours	LTI	OHS Act Sec 8; the project Health and Safety Specification	4	В	m eff	fostly to	orbractor shall conduct adequate risk assessment identify all hazards & form employees of the associated risks and how to not of the state of the st	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act Sec 8; Construction Regulations 9; Eskom's Personal Protective Equipment Specification 240- 44175132	TBA	Panding,	
				73,2	Trips	Safety	Bad housekeeping for rebars	Construction team	PM	8 hours	LTI	CHS Act Sec B. General Safety Regulations B. Construction Regulations 28 and the project Health and Safety Specification	4	В	m eff	lostly C	orthactor shall adopt and maintain good useskeeping practice.	Eskom Inspections and Audits on Contractor	PMConstruction manager/aupsin/sor	OHS Act Sec 8; Construction Regulations 9; Eskom's Personal Protective Equipment Specification 240- 44175132	TBA	Pending,	
				73,3	Muscle injuries.backaches	Safety	Aukinard tody position e.g. body bending: carrying heavy rebar systemisets e.g. rebar cage or bunde	Construction team	РМ	8 hours	LTI	CHS Act Sec 8: the project Health and Safety Specification: Good lifting/carrying techniques	4	С	■ M eff	lostly co	Contractor shall adopt and practice good ergonomic orgines; Contractor shall use mechanical means for myringfilling heavy rebars; Contractor shall provide training to his employees on good fillingicamying techniques.	Eskom Inspections and Audits on Contractor	PMConstruction manager/supervisor	OHS Act Sec 8; Eskom Occupational Hygiene Management Guideline PDPMAN- GL-50 Eskom Personal Protective Equipment Specification 240-	TBA	Panding.	
Interaction between persons	R	74	COVID 19 (Corona Virus)	74,1	Cross infection	Health	Corning into contact with an infected person / contaminated surface; Contact with airborne particles; Lack of awareness on the disease; Poor hygiene practices	Construction team	Responsible Managers & all employees	8 hours	Epidomological treatment case	Tactical Command Centre (TCC) Eskom Emergency Protocols activated; Work from home; Home / hospital quarantine; Restrict unnecessary visits / contacts;	4	С	- M	fostly fective	External medical services (Public and private); Hand and surface sanitisers	Statistics from Health and Wellness; NCID- National Centre for Infectious Diseases	Responsible Managers	A4175132  Outbreak, Pandemic or Epidemic Disaster Response Plan; Disaster Management Act 57 of 2002	TBA	Pending.	
Voltage transformers  Check for equipment manual	N	19	Improper assembly	19,1	Defective equipment	Safety	Lack of concentration Non- compliance to procedures Inadequate supervision Inadequate inspection	Civil team	PM	8 hours daily	Fatality	SHE Specification Form 74	5	С	II M	flostly of active ac	ontractor shall develop and implement additional introis and rating post implementation of these didtional controls.	Eskom Inspections and Audits on Contractor		OHS Act, Act 85 of 1993 and its Regulations			
Connect Sterm	N	20	Hand tools	20,1	Contact with	Safety	Lack of concentration Non- compliance to procedures Inadequate supervision Inadequate inspection PPE not wom Inadequate experience/training	Civil Team	PM	8 hours daily	Medical Incident	SHE Specification Form 74 Eskom Presonal Protective Equipment (240- 44175132) SANS 1200 ALL PARTS Project specific drawings	3	С	II M	, cc	ontractor shall develop and implement additional introis and rating post implementation of these idditional controls.	Eskom Inspections and Audits on Contractor		OHS Act, Act 85 of 1993 and its Regulations			
Sing first part of the CVT, Lift up, Connect to middle part, Lift complete CVT, connect to base and secure	N	21	Deviation from approved lifting methodology	21,1	Falling material Load shifting Failure of equipment / tackle	Safety	Incorrect singing Exceeding load limits Inadequate inspection Inadequate training Lack of supervision	Operators Riggers Erection team Bystanders	PM	8 hours daily	Fatality	SHE Specification Form 74 Medical Surveillance Procedure (240-84733329) Safe use of lifting machines and lifting tackles (39- 98) Employee's right of refusal to work in an unsafe situation Procedure (240-43848327)	5	С	II M	flostly Confective and	ontractor shall develop and implement additional ontrois and rating post implementation of these distinctions of controls.	Eskom Inspections and Audits on Contractor		OHS Act, Act 85 of 1993 and its Regulations			
			Inexperienced equipment operator(s)(Applicable to all substation work)	21,2	Lose control of equipment Falling material	Safety	Inadequate training / experience Lack of supervision Underlying medical condition	(Applicable to all substation work)	PM	8 hours daily	Fatality	SHE Specification Form 74 Medical Surveillance Procedure (32-282) Safe use of Iffire machines and lifting tackles (39- 98) Project specific drawings SANS 1200 ALL PARTS Employee's right of refusal to work in an unsafe sha	5	c	II M	flostly Consideration and Constitution a	contractor shall develop and implement additional introduction and rading post implementation of these diditional controls.	Eskom Inspections and Audits on Contractor		OHS Act, Act 85 of 1993 and its Regulations			
			Suspended load	21,3	Exposure to falling objects Falling from height	Safety	Failure of lifting equipment Improperly secured load Elevated position following procedures Inadequate training	Erection Team Bystanders	PM	8 hours daily	Fatality	SHE Specification Form 74 Medical Surveillance Procedure (240-84733329) Safe use of lifting martines and lifting tackles (39- Propert Specific drawings SANS 1000 ALL PARTS Employer's 1976 of refusal to work in an unsafe situation Procedure (240-43843327)	5	с	II M	fostly confective as	ontractor shall develop and implement additional introis and rating post implementation of these ditional controits.	Eskom Inspections and Audits on Contractor		OHS Act, Act 85 of 1993 and its Regulations			
			Unstable terrace / platform	21,4	Crane overturn	Safety	Sinking terrace Poor compaction Fill material used not according to specification Inadequate method statement or Noncompliance to method statement	Operation Riggers Bystanders	PM	8 hours daily	Fatality	Mandatory SHE Specification to be met by contractors and suppliers during refurbishment and construction (PPIAMN-ST-001) SANS 1200 ALL PARTS Project specific drawings	5	с	II M	lostly Confective and	contractor shall develop and implement additional interest and rating post implementation of these diditional controls.	Eskom Inspections and Audits on Contractor		OHS Act, Act 85 of 1993 and its Regulations			
Earth wire  Drums placement and storage	N	32	Rotten Drums	32,1	Collapsed drums	Safety	Untreated wood Wood rot Improper storage	Installers Bystanders Crane operators	PM	8 hours daily	LTI	SHE Specification Form 74 Safe use of lifting machines and lifting tackles (39- 98)	4	С		factive C	ontractor shall develop and implement additional ontrois and rating post implementation of these diditional controls.	Eskom Inspections and Audits on Contractor		OHS Act, Act 85 of 1993 and its Regulations			
			Unsecured Drums	32,2	Drums may roll over	Safety	Stop blocks/ Wedge / Chocks not in place Uneven surface	Installers Bystanders	PM	8 hours daily	Fatality	SHE Specification Form 74 Safe use of lifting machines and lifting tackles (39- 98)	5	с	II M	testive co	ontractor shall develop and implement additional introis and rating post implementation of these dditional controls.	Eskom Inspections and Audits on Contractor		OHS Act, Act 85 of 1993 and its Regulations			
Place drums on cable Jacks	N	33	Unsecured Drums	33,1	Drums may fall from jacks	Safety	Incorrect Lifting techniques Uneven surface	Installers	PM	8 hours daily	LTI	SHE Specification Form 74 Safe use of lifting machines and lifting tackles (39- 98)	4	с	II M	terebra CC	ontractor shall develop and implement additional introis and rating post implementation of these dditional controls.	Eskom Inspections and Audits on Contractor		OHS Act, Act 85 of 1993 and its Regulations			
			Jack Failure	33,2	Jack and drum collapse	Safety	Exceeding safe workload Lack of inspections / maintenance Uneven surface incorrect Lifting techniques Defective Jacks	Installers Bystanders	PM	8 hours daily	LTI	SHE Specification Form 74 Safe use of lifting machines and lifting tackles (39- 98)	4	с	II M	fective C	ortractor shall develop and implement additional introls and rating post implementation of these dditional controls.	Eskom Inspections and Audits on Contractor		OHS Act, Act 85 of 1993 and its Regulations			
Remove cover material (Wood)	N	34	Fragmented Wood splinters	34,1	Contact with splinters	Safety	Lack of PPE; Lack of concentration	Installer	PM	8 hours daily	Medical Incident	SHE Specification Form 74 Medical Surveillance Procedure (240-84733329) Safe use of lifting machines and lifting tackles (39- 38)	3	С	II M	fostly fective	ontractor shall develop and implement additional ontrols and rating post implementation of these dditional controls.	Eskom Inspections and Audits on Contractor		OHS Act, Act 85 of 1993 and its Regulations			
			Protruding nails	34,2	Stepping on nails	Safety	Incorrect PPE Lack of concentration Poor housekeeping Non- Compliance to Procedure Inadequate Risk assessment	Installer	РМ	8 hours daily	Medical Incident	SHE Specification Form 74 Eskom Personal Protective Equipment (240- 44175132)	3	с	II M	lostly fective	ontractor shall develop and implement additional netrols and rating post implementation of these ditional controls.	Eskom Inspections and Audits on Contractor		OHS Act, Act 85 of 1993 and its Regulations			
Dismartling old busbars and insatt new busbars / isolators/ breakers	N	41	Cherry Picker	41,1	Equipment failure	Safety	Improper maintenance; Failure to train operator; Inadequate supervision; Inadequate safe work procedute; Inadequate risk assessment;	Installation team	РМ	8 hours daily		Eskom Work ar Height Procedure; Proper training of operators; Adaquate supervison; Develop adequate safe work procedute; Conduct adequate risk assessment;	5	В	II M	lostly confective as	ontractor shall develop and implement additional introls and rating post implementation of these difficult controls.	Eskom Inspections and Audits on Contractor		OHS Act, Act 85 of 1993 and its Regulations			
			Working in close proximity to live equipment	41,2	Electrical contact	Safety	relater to Joseph and observe safely caracterize. Fallare to haricade: hari	installation team	PM	8 hours daily	Fatality	identify and observe selfer (secrance; Exect effective bearring; install adequate earthing; region and produce of the property of the region from and old introduction between POP region; from and old introduction; Provide adequate PPE; Provide adequate PPE; Provide adequate region; and provide adequate supervision; landequate old interpretation; landequate old interpretation; landequate old interpretation; landequate old interpretation and communication prior to work commencement; Adequate formal fact assessment and communication prior to work commencement; landequate formal old practice earths relevant to responsible person, prior to commencement of work; Chry the Engineering Assistant (EA) may remove /relocate the control earths.	5	8	m eff	lostly Confective of	ortractor shall develop and implement additional enter and implementation of these distorral coresis.	Estam Inspections and Audits on Contractor		OHS Act, Act 85 of 1993 and its Regulations			

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