

## BASELINE RISK ASSESSMENT

RISK ASSESSMENT:	Baseline Risk Assessment	DATE:	05/11/2021
CLIENT:	KwaZulu Natal Province- Agriculture and Rural Development Republic of South Africa	PROJECT LOCATION:	<b>MAKHATHINI IRRIGATION SCHEME, BLOCK 6 AT UMKHANYAKUDE DISTRICT</b>
ENGINEERS:			
HEALTH & SAFETY:		EST START DATE:	
CONTRACT NUMBER:		EST COMPLETION DATE:	
BRIEF DESCRIPTION OF WORK/ACTIVITY:	INSTALLATION OF SUB-SURFACE DRAINAGE AT MAKHATHINI IRRIGATION SCHEME, BLOCK 6 AT UMKHANYAKUDE DISTRICT		

RISK ASSESSMENT TEAM:			APPROVALS:		
INITIALS & SURNAME	DESIGNATIONS	SIGNATURE	INITIALS & SURNAME	DESIGNATIONS	SIGNATURE
	<b>CONSTRUCTION HEALTH AND SAFETY MANAGER</b>		SE Ndlela	CLIENT REPRESENTATIVE	
			Tahir Jasat	PROJECT ENGINEER	

**REQUIRED AND EXISTING CONTROL MEASURES: (SUBMIT AND ATTACH TO RISK ASSESSMENT)**

	AVAILABLE		ADEQUATE		REMARKS
	Yes	No	Yes	No	
Scope of Work (logical steps on how task will be performed)	X				
Procedures: (WI / SOP / Vendor Spec)					
Training (induction) / Competency certificates? Specific training identified / other (instructions)					
Special permits required (specify)					
Equipment / Tool Registers / Others (specify)					
Code of Practice:					
Other:					

FREQUENCY SCALE		SEVERITY SCALE		PROBABILITY SCALE		
Frequent occurrence / daily	(3)	<b>Catastrophic</b>	(Many fatalities / > 10 Million damage)	(8)	Has happened before	(3)
It has happened / monthly	(2)	<b>Disaster</b>	(Fatal injury / > 1 Million damage)	(7)	Quite possible	(2)
Could occur / yearly	(1)	<b>Very Serious</b>	(Reportable Accident / > R100,000 damage)	(6)	Unusual but possible	(1)
		<b>Serious</b>	(Disability Injury (LTI) / > R100,000 damage)	(5)		
		<b>Important</b>	(Non-disabling Injury / > R1,000 damage)	(4)		
		<b>Of Concern</b>	(Minor injury / > R100 damage)	(3)		

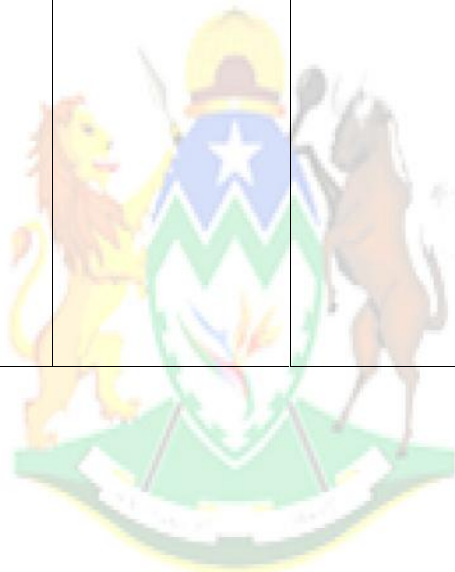
RISK RANKING / PRIORITY FACTOR		
If score is 61 to 72	<b>AA</b>	<b>Potentially Catastrophic – action needed immediately.</b>
If score is 49 to 60	<b>A</b>	<b>Potentially Major – action to be taken within 24 hours.</b>
If score is 37 to 48	<b>B</b>	<b>Potentially Serious – action to be taken within 48 hours.</b>
If score is 01 to 36	<b>C</b>	<b>Potentially Minor – action to be taken within 7 days.</b>

### BASELINE RISK ASSESSMENT

No	LIST ITEMS/TASKS WITH ALL TASK STEPS (WHO WILL DO WHAT, WHERE AND WHEN)	POTENTIAL AND EXISTING HAZARDS	RISK (CONSEQUENCE OF THE HAZARDS)	PROB OF OCCUR 1/2/3	SEV OF OCCUR 3/4/5 1/6/7/8	FREQ OF OCCUR 1/2/3	SCORE TOTAL PxSxF	RISK RANK / PRIORITY FACTOR	PREVENTATIVE MEASURES AND CONTROLS
1.	Human contact	<ul style="list-style-type: none"> <li>• Corona virus</li> <li>- Epidemic</li> <li>- Pandemic</li> </ul>	<ul style="list-style-type: none"> <li>• Fever</li> <li>• cough</li> <li>• difficulty breathing</li> <li>• sore throat</li> <li>• Death</li> </ul>	3	8	3	72	AA	<ul style="list-style-type: none"> <li>• Don't shake hands or hug one another.</li> <li>• Keep social distancing 1.5 m apart</li> <li>• Wash your hands every 20 min with soap and water or with hands sanitiser with 70% alcohol content.</li> <li>• Stay at home when you dint feel well</li> <li>• Report to the supervisor if you have symptoms.</li> <li>• Eat healthy and improve hygiene practises</li> <li>• There is no cure to this disease so far</li> </ul>
	Sharing of tools	<ul style="list-style-type: none"> <li>• Transportation of the virus from one tool to the next by human contact.</li> </ul>	<ul style="list-style-type: none"> <li>• Fever</li> <li>• cough</li> <li>• difficulty breathing</li> <li>• sore throat</li> <li>• Death</li> </ul>						<ul style="list-style-type: none"> <li>• Sanitise tools with sanitiser with 70% alcohol content.</li> <li>• Wash your hands every after work and during the breaks and after sharing tools with soap and water or with hands sanitiser with 70% alcohol content.</li> </ul>
	Working in the same offices	Transportation of the virus from one surface to the next by human contact	<ul style="list-style-type: none"> <li>• Fever</li> <li>• cough</li> <li>• difficulty breathing</li> <li>• sore throat</li> <li>• Death</li> </ul>						<ul style="list-style-type: none"> <li>• Clean all office surfaces, door handles and any other equipment frequently used (phone, printer, copying machine)</li> <li>• Wash your hands every 20 min with soap and water or with hands sanitiser with 70% alcohol content.</li> </ul>

No	LIST ITEMS/TASKS WITH ALL TASK STEPS (WHO WILL DO WHAT, WHERE AND WHEN)	POTENTIAL AND EXISTING HAZARDS  <ul style="list-style-type: none"> <li>• SAFETY</li> <li>• HEALTH</li> <li>• ENVIRONMENT</li> </ul>	RISK (CONSEQUENCE OF THE HAZARDS)  <ul style="list-style-type: none"> <li>• DEATH</li> <li>• LOSS</li> <li>• DAMAGED EQUIP</li> <li>• SPILLAGE, ETC</li> </ul>	PROB OF OCCUR 1/2/3	SEV OF OCCUR 3/4/5 1/6/7/8	FREQ OF OCCUR 1/2/3	SCORE TOTAL PxSxF	RISK RANK / PRIORITY FACTOR	PREVENTATIVE MEASURES AND CONTROLS  <ul style="list-style-type: none"> <li>• ELIMINATE RISK</li> <li>• CONTROL AT SOURCE</li> <li>• PUT/FOLLOW PROCEDURE</li> <li>• PROVIDE PPE</li> </ul>	SITE SPECIFIC PHOTOGRAPHS RELATING TO ITEMS
2.	Driving to and from site.	<ul style="list-style-type: none"> <li>• Driving on dangerous steep road.</li> <li>• Dirt Roads.</li> <li>• Pot Holes/ road</li> <li>• High speeds/ Driving Recklessly.</li> <li>• Fatigue.</li> <li>• Other vehicles driving unsafely.</li> <li>• Exposure to Dust.</li> <li>• Slow moving plant obstructing traffic movement/flow</li> <li>• Animals on the road</li> </ul>	<ul style="list-style-type: none"> <li>• Severe Injuries (broken bones, lacerations, etc)</li> <li>• Death.</li> <li>• Dust being inhaled/ getting in eyes.</li> <li>• Dust obscuring the drivers view while driving.</li> <li>• Damage to Vehicles, Equipment/ Property.</li> <li>• Vehicle Collision &amp; Damage</li> <li>• Hydrocarbon Spills cause ground water, rivers and water way contamination.</li> <li>• Hydrocarbon Spills Creating Slippery road surfaces.</li> <li>• Motorist collisions with slow moving plant.</li> <li>• Motor colliding with animals on the road.</li> </ul>	2	8	3	48	B	<ul style="list-style-type: none"> <li>• All Drivers to have in possession a valid Licences in order to drive any vehicle.</li> <li>• All drives are to be warned about the road conditions.</li> <li>• All passengers are to remain seated at all times with seatbelts fastened.</li> <li>• At no time will passengers be allowed to ride on the back of an open van, truck or trailer.</li> <li>• Riding on Plant will not be permitted.</li> <li>• Drivers are to be wide awake and should not be allowed to drive if they are feeling tired or sleepy. Regular breaks at least 2 hourly.</li> <li>• Recommended to have an alternative driver available to share driving time (where required on long commutes).</li> <li>• Do Not exceed Speed Limits, and ensure speeds are kept to a safe limit giving the driver enough time to make an emergency stop (i.e. drive to the conditions, not to the speed limit of the road, and keep your distance from the vehicle in front of you using the 2-3 second rule).</li> <li>• Keep to safe speed limit of 15km/h when driving on site.</li> <li>• Drivers are to drive a safe distance away from the roads edge to avoid the vehicle losing control (Includes no Yellow Line Driving).</li> </ul>	


									<ul style="list-style-type: none"> <li>• If visibility is impaired your headlights must be on to see and to be seen.</li> <li>• Vehicles must have Warning Triangles and reflective vests in the event of a breakdown.</li> <li>• All Vehicles and Plant must be regularly serviced and in good working order.</li> <li>• Inspection Records must be kept for all vehicles and plant.</li> <li>• All workers, Drivers and Operator must have a valid Medical Certificate of Fitness as conducted by an occupational medical practitioner (including a completed and Annexure 3 form).</li> <li>• No drivers/Operators to be under the influence of alcohol or drugs of any kind.</li> <li>• Rotating Orange Flashing Light to be on all vehicles and must be in good working order.</li> <li>• "Construction Vehicle" Sign to be placed on rear of vehicle.</li> </ul>
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KWAZULU-NATAL PROVINCE  
 AGRICULTURE AND RURAL DEVELOPMENT  
 REPUBLIC OF SOUTH AFRICA



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3.	Site Establishment: - Collect & Deliver materials and equipment. - Loading & Offloading by Hand - Loading & Offloading using Mechanical Aids. - Building offices and workshops: using hand tools, ladders, portable electric drill, electrician to install temporary electrical connections, etc.	<ul style="list-style-type: none"> <li>• SAFETY</li> <li>• HEALTH</li> <li>• ENVIRONMENT</li> <li>• Manual Handling of equipment and materials.</li> <li>• Dust.</li> <li>• Snakes.</li> <li>• Bees &amp; Wasps.</li> <li>• Ticks:               <ul style="list-style-type: none"> <li>- Cattle (on site accessing through gaps in fence)</li> </ul> </li> <li>• Moving vehicles.</li> <li>• Materials/Objects in the walkways.</li> <li>• Uneven surfaces between vehicle and lay down area.</li> <li>• Driving on dangerous and undulating terrain.</li> <li>• Dirt Roads on site.</li> <li>• Pot Holes.</li> <li>• Excessive speeds/ Driving Recklessly.</li> <li>• Fatigue.</li> <li>• Other vehicles driving unsafely.</li> <li>• Movement of Mechanical aids including mobile cranes and plant.</li> </ul>	<ul style="list-style-type: none"> <li>• DEATH</li> <li>• LOSS</li> <li>• DAMAGED EQUIP</li> <li>• SPILLAGE, ETC</li> <li>• Manual handling injuries.</li> <li>• Dust being inhaled/ getting in eyes.</li> <li>• Snake Bites (Common venomous Kwa-Zulu Natal Snakes: Black mamba, Puff Adder, Boomslang, Rinkhals, Green Mamba, Forest/Black Cobra, Night Adder, etc).</li> <li>• Bee &amp; Wasp Stings causing Anaphylaxis (allergic reaction)</li> <li>• Tick Bites causing tick bit fever/ Lyme disease.</li> <li>• Vehicle Collision &amp; Damage.</li> <li>• Collisions with Pedestrians.</li> <li>• Material Damage.</li> <li>• Equipment Damage.</li> <li>• Collision/impacts of mobile lifting equipment, loads and dropped loads with process plant,</li> </ul>	2	7	3	42	B	<ul style="list-style-type: none"> <li>• ELIMINATE RISK</li> <li>• CONTROL AT SOURCE</li> <li>• PUT/FOLLOW PROCEDURE</li> <li>• PROVIDE PPE</li> <li>• Responsible Supervisor to ensure Instructions are given on Manual handling using Safe Work Procedure (SWP) for Manual Handling: Where load is lifted, bending at the knees, not the back. Don't twist body with load in hands, always carry load close to the body, adhere to the recommended weight limit (RWL = 1/3 body weight or 25kg).</li> <li>• Contractor to conduct DSTI's (Daily Safety Task Instruction) to be conducted and communicated at the beginning of the shift on a daily basis. DSTI close out to be conducted and attendance registered signed by all staff.</li> <li>• Ensure Off-loading area is clear, level, secure and free from slip trip and falling hazards.</li> <li>• Stacking &amp; Storage Supervisor to be appointed to control lay down areas.</li> <li>• All workers to have valid medicals with annexure 3 documents signed and stamped by Occupational Medical Practitioner.</li> <li>• Stacking and Storing to only be in designated areas and Contractor to develop and implement Stacking &amp; Storing Guidelines to cover items such as Ventilation, Lighting, Manoeuvring Space, Stacking Requirements, Emergency Exits, Access &amp; egress, etc.</li> </ul>	

		<ul style="list-style-type: none"> <li>• Broken Glass from existing buildings on site.</li> <li>• Old equipment/pumps left on site.</li> <li>• Movement of public to and from a Residential Property in close proximity to site area.</li> <li>• Fuel (Petrol &amp; Diesel)</li> <li>• Noise.</li> <li>• Cement.</li> <li>• Working at heights/ From a Fall Risk Position.</li> <li>• Temporary Electrical Feeds.</li> <li>• Inclement Weather.</li> <li>• Smoking/ Open Fires</li> <li>• Sun</li> <li>• Vibration (vibrating concrete).</li> </ul>	<p>pipe work, electrical cables and people.</p> <ul style="list-style-type: none"> <li>• Mechanical Aids Overturning causing death, injury or damage to equipment/ materials.</li> <li>• Cuts, lacerations and eye injuries from broken glass.</li> <li>• Slips, trips and falls from uneven surfaces, piles of rubble and soft sand.</li> <li>• Injury and possible vehicle collisions between site camp operations and residents living in house near in site camp area.</li> <li>• Hydrocarbon spills from refuelling area &amp; or vehicle/plant leaks.</li> <li>• Pinch points from plan: Crushing and Batching Plant.</li> <li>• NIHL (Noise induced hearing loss).</li> <li>• Chemical burns/ contact dermatitis from cement and eye injuries from cement splashes.</li> </ul>					<ul style="list-style-type: none"> <li>• Keep to safe speed limit 15km/h when driving on site.</li> <li>• Supervisors to brief staff on snake awareness and First Aid Officers must be familiar with contractor's snake bite procedures.</li> <li>• Supervisors to brief staff on bee and wasp awareness and First Aid Officers must be familiar with contractor's bee and wasp sting procedures.</li> <li>• Supervisors to brief staff on tick bite awareness and First Aid Officers must be familiar with contractor's tick bite procedures (i.e. If ticks are found, be patient when removing a tick from your skin, follow these steps: 1. Use Tweezers to grab the tick close to your skin, 2. Gently pull back, making sure the tick's head is not left in your skin. 3. Don't Squeeze the ticks body, if you do the bacteria may enter your skin. 4. After removing the tick, wash the bite with soap and water. See a Doctor right away if you notice any symptoms of Tick Bite Fever or Lyme Disease).</li> <li>• Supervisors to be training in capturing and releasing snakes (snakes must not be killed).</li> <li>• Flag man to be provided to ensure vehicles are guided onto site.</li> <li>• All Drivers Licences must be valid in order to drive any vehicle.</li> <li>• Only Licensed and Appointed Mechanical Aids Operators (i.e. Crane Operators, TLB operators, Bobcat Operators, etc) to operate plant on site.</li> <li>• as far as is reasonably practicable, <b>ensure that machinery, plant or work systems</b></li> </ul>	
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			<ul style="list-style-type: none"> <li>• Worker falling from heights/ Fall risk positions causing death or serious injury.</li> <li>• Possible Electrocutation for working/installing temporary electrical feed.</li> <li>• Lightning Strike causing death, or severe burns/injuries.</li> <li>• Rain causing slippery conditions.</li> <li>• Heat stroke from being exposed to the sun for too long and sun burn.</li> <li>• Bush Fires caused by cigarettes/open fires causing smoke inhalation, possible death, burns, and damage to property.</li> <li>• HAVs (Hand Arm Vibration: permanent damage to dexterity of fingers, finger blanching) and WBV (Whole Body Vibration: back pain, long term can cause lumbar spinal damage also including the neck and shoulder region, musculoskeletal</li> </ul>					<p><b>optimise human well-being and overall system performance;</b></p> <ul style="list-style-type: none"> <li>• as far as is reasonably practicable, supply machinery, plant or work systems that can be <b>transported, received, stored and handled</b> in a manner that optimises human well-being and overall system performance;</li> <li>• provide <b>information, instruction and training</b> as deemed necessary to allow potential users to achieve optimal human well-being and overall system performance during use of machinery, plant or work systems;</li> <li>• Inspection &amp; Maintenance records must be maintained for all mechanical aids on site.</li> <li>• Mechanical Aids must be operated in accordance with the operators training and manufacturers guidelines (e.g.: outriggers must be fully extended, Safe Work Loads (SWL) must be observed, work area below lifts must be clear and nobody is to walk under load or load be lifted over people, etc).</li> <li>• Suitably qualified and competent riggers must be appointed. Riggers certificates must indicate level of rigging competency and must be an accredited course.</li> <li>• Rigging study (where required) must be in place and signed off by the rigging team.</li> <li>• All drives are to be warned about the road conditions.</li> <li>• All passengers are to remain seated at all times with seatbelts fastened.</li> <li>• At no time will passengers be allowed to ride on the back of an open van, truck or trailer.</li> <li>• Riding on Plant will not be permitted.</li> </ul>	
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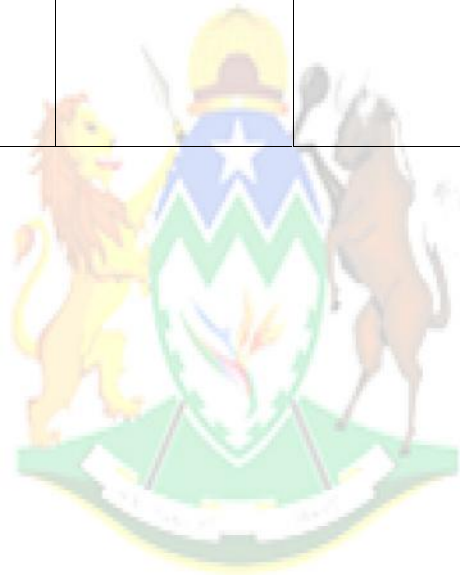
			<p>disorders, and motion sickness).</p>					<ul style="list-style-type: none"> <li>• Drivers are to be wide awake and should not be allowed to drive if they are feeling tired or sleepy. Regular breaks at least 2 hourly.</li> <li>• Recommended to have an alternative driver available to share driving time (where required on long commutes).</li> <li>• Do Not exceed Speed Limits, and ensure speeds are kept to a safe limit giving the driver enough time to make an emergency stop (i.e. drive to the conditions, not to the speed limit of the road, and keep your distance from the vehicle in front of you using the 2-3 second rule).</li> <li>• Drivers are to drive a safe distance away from the roads edge to avoid the vehicle losing control (Includes no Yellow Line Driving).</li> <li>• If visibility is impaired your headlights must be on to see and to be seen.</li> <li>• Vehicles must have Warning Triangles and reflective vests in the event of a breakdown.</li> <li>• All Vehicles and Plant must be regularly serviced and in good working order.</li> <li>• Inspection Records must be kept for all vehicles and plant.</li> <li>• Drivers and Operator must have a valid Medical Certificate of Fitness as conducted by an occupational medical practitioner (including a completed and Annexure 3 form).</li> <li>• No drivers/Operators to be under the influence of alcohol or drugs of any kind.</li> <li>• Rotating Orange Flashing Light to be on all vehicles and must be in good working order.</li> </ul>	
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								<ul style="list-style-type: none"> <li>•“Construction Vehicle” Sign to be placed on rear of vehicle.</li> <li>•All Broken glass to be cleaned up and disposed of in suitable containers.</li> <li>•All old, broken and un-used equipment, pumps, etc that are lying about are to be either removed from site or placed in a fenced off demarcated area.</li> <li>•Site Camp area must be fenced off, sign posted with Mandatory PPE signage, contact details and “no Unauthorised entry signage”. Access is to be controlled by Security to safe guard the site camp and to ensure no unauthorised entry into site camp area.</li> <li>•Access roads to site camp will need to be watered to avoid dust clouds. Stone may also be required to counter the soft sand and will help with the dust in light of water shortages in the area.</li> <li>•Refuelling area must comply with EIA and ROD requirements. Area to be bunded with 110% capacity, sumps built in, spill kits available, fire extinguishers available, correct signage, etc.</li> <li>•Contractor ensure the Noise Induced Hearing Loss (NIHL) 2003 Regulations are complied with when working with or near noise generating equipment/plant – Hearing Protection to be worn by all workings in the immediate vicinity of the noise generating equipment/plant.</li> <li>•Supervisor to instruct the operator of the portable electric tools on the correct way to use them. Safe Operating Procedures are to be drawn up per Portable Electric Tool by contractor.</li> </ul>	
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						<ul style="list-style-type: none"> <li>• Fall Protection Plan must be drafted, communicated and Implemented an appointed, competent and qualified Fall Protection Planner (CR10.1a) who holds a valid certificate accredited by SAQA US229998 &amp; 229994 and must be registered with a professional body such as the IWH (Institute for Working at Height).</li> <li>• All employees working at heights to have valid fall arrest certificate as detailed in the Fall Protection Plan (SAQA US: 229998 as minimum).</li> <li>• All ladders are to be numbered, labelled, inspected and recorded.</li> <li>• While someone is on the ladder someone is to be holding the ladder at all times. Safe Working Procedure for use of ladders is to be drawn up by contractor.</li> <li>• All hand tools are to be inspected prior to use and inspected at least once per month. Inspections must be recorded on tool inspection check sheets.</li> <li>• Qualified Electrician to be appointed as Temporary Electrical Installations Controller &amp; Inspector (CR24(c)&amp;(d) and Registered Electrician (EIR6&amp;11).</li> <li>• Supervisor to ensure that the Qualified, Competent and Appointed Electrician supervise all electrical installations.</li> <li>• Supervisor to ensure that the Qualified, Competent and Appointed Electrician implements a lock out procedure, where required, and that a SWP and checklist or permit to work system is in place and used.</li> <li>• Supervisor to ensure that the Qualified, Competent and Appointed Electrician</li> </ul>	
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									<p>conducts weekly inspections of all Temporary and Permanent Electrical Installations and records the findings on the relevant inspection registers for the duration of the project until the temporary electrical feed has been isolated and disconnected. Depending on the voltage</p> <ul style="list-style-type: none"> <li>• Smoking Areas must be set up in demarcated areas with signage, sand filled bucket/drum and a fire extinguisher.</li> <li>• Fire Extinguishers/ fire-fighting equipment (such as water carts) must be available on site in sufficient quantity.</li> <li>• Fire Marshals must be appointed and emergency procedures to deal with Fires and other emergencies to be communicated to all staff.</li> <li>• A Safe Work Procedure dealing with Lightning must be developed by the contractors dealing with the 30-30 Rule, what must be done, when work must be stopped, first aid, etc.</li> <li>• An MSDS Register must be maintained for all chemicals on site along with the respective MSDS documents. This includes MSDS for cement, fuel, oils, cleaning products, emulsions, chemical anchors, etc. All MSDS must be readily available to all staff on site. All chemical products must be kept and stored in accordance with the MSDS requirements.</li> <li>• During Hot periods, regular breaks must be taken. Drinking water must be made available on site close to work areas. Sun block lotion must be provided and applied to exposed skin, long sleeve overalls to be worn and brim hats fitted to hard hats made available.</li> </ul>	
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									<ul style="list-style-type: none"> <li>• Resting and eating areas must be provided near at site camp area.</li> <li>• Employee/operator exposure to vibrating equipment/plant to be kept within the machine/plants EAV (Exposure Action Value) and ELV (Exposure Limit Value).</li> <li>• Ensure mechanical controls are maintained to prevent WBV (e.g. suspension seats in good working order, vehicle suspension maintained, etc).</li> <li>• Provide PPE: Safety Boots/Shoes, Hard Hat, Dust Mask, Eye Protection, Reflective Vest, 2 Piece Long Sleeve Overall, Gloves, double lanyard safety harness.</li> </ul>	
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# KWAZULU-NATAL PROVINCE

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 REPUBLIC OF SOUTH AFRICA



No	LIST ITEMS/TASKS WITH ALL TASK STEPS (WHO WILL DO WHAT, WHERE AND WHEN)	POTENTIAL AND EXISTING HAZARDS	RISK (CONSEQUENCE OF THE HAZARDS)	PROB OF OCCUR 1/2/3	SEV OF OCCUR 3/4/5 /6/7/8	FREQ OF OCCUR 1/2/3	SCORE TOTAL PXSXF	RISK RANK / PRIORITY FACTOR	PREVENTATIVE MEASURES AND CONTROLS	SITE SPECIFIC PHOTOGRAPHS RELATING TO ITEMS
4.	Site Fencing: - Clearing bush using bush knives. - Digging Holes using pick and spades. - Concreting fence poles. - Mounting fencing using hand tools & portable electric drill and ladders (where required).	<ul style="list-style-type: none"> <li>• Manual Handling of materials.</li> <li>• Dust.</li> <li>• Snakes.</li> <li>• Bees &amp; Wasps.</li> <li>• Ticks.</li> <li>• Moving vehicles.</li> <li>• Movement of Mechanical aids including mobile cranes and plant.</li> <li>• Movement of public to and from a Residential Property in close proximity to site area.</li> <li>• Cement.</li> <li>• Noise</li> <li>• Working at heights: Ladder work.</li> <li>• Underground services.</li> <li>• Inclement Weather.</li> <li>• Smoking/ Open Fires</li> <li>• Sun</li> </ul>	<ul style="list-style-type: none"> <li>• Manual handling injuries.</li> <li>• Dust being inhaled/ getting in eyes.</li> <li>• Snake Bites (Common venomous Kwa-Zulu Natal Snakes: Black mamba, Puff Adder, Boomslang, Rinkhals, Green Mamba, Forest/Black Cobra, Night Adder, etc).</li> <li>• Bee &amp; Wasp Stings causing Anaphylaxis (allergic reaction)</li> <li>• Tick Bites causing tick bit fever/ Lyme disease.</li> <li>• Vehicle Collision &amp; Damage.</li> <li>• Collisions with Pedestrians.</li> <li>• Ergonomics issues</li> <li>• Material Damage.</li> <li>• Equipment Damage.</li> <li>• Cuts, lacerations and eye injuries from</li> </ul>	2	6	3	36	C	<ul style="list-style-type: none"> <li>• Responsible Supervisor to ensure Instructions are given on Manual handling using Safe Work Procedure (SWP) for Manual Handling: Where load is lifted, bending at the knees, not the back. Don't twist body with load in hands, always carry load close to the body, adhere to the recommended weight limit (RWL = 1/3 body weight or 25kg).</li> <li>• Contractor to conduct DSTI's (Daily Safety Task Instruction) to be conducted and communicated at the beginning of the shift on a daily basis. DSTI close out to be conducted and attendance registered signed by all staff.</li> <li>• Ensure Off-loading area is clear, level, secure and free from slip trip and falling hazards.</li> <li>• All workers to have valid medicals with annexure 3 documents signed and stamped by Occupational Medical Practitioner.</li> <li>• Stacking and Storing to only be in designated areas and Contractor to develop and implement Stacking &amp; Storing Guidelines to cover items such as Ventilation, Lighting, Manoeuvring Space, Stacking Requirements, Emergency Exits, Access &amp; egress, etc.</li> <li>• Keep to safe speed limit 15km/h when driving on site.</li> </ul>	

			<p>clearing bush and placing fencing.</p> <ul style="list-style-type: none"> <li>• Slips, trips and falls from causing sprains and minor injuries.</li> <li>• Chemical burns/ contact dermatitis from cement and eye injuries from cement splashes.</li> <li>• Noise Induced hearing loss.</li> <li>• Falls from ladders causing death or serious bodily injury</li> <li>• Possible electrocution from existing underground services.</li> <li>• Damage to underground services.</li> <li>• Lightning Strike causing death, or severe burns/injuries.</li> <li>• Rain causing slippery conditions.</li> <li>• Heat stroke from being exposed to the sun for too long and sun burn.</li> <li>• Bush Fires caused by cigarettes/open fires causing smoke inhalation, possible</li> </ul>					<ul style="list-style-type: none"> <li>• as far as is reasonably practicable, <b>ensure that machinery, plant or work systems optimise human well-being and overall system performance;</b></li> <li>• (b)as far as is reasonably practicable, supply machinery, plant or work systems that can be <b>transported, received, stored and handled</b> in a manner that optimises human well-being and overall system performance;</li> <li>• (c)provide <b>information, instruction and training</b> as deemed necessary to allow potential users to achieve optimal human well-being and overall system performance during use of machinery, plant or work systems;</li> <li>• Supervisors to brief staff on snake awareness and First Aid Officers must be familiar with contractor's snake bite procedures.</li> <li>• Supervisors to be training in capturing and releasing snakes (snakes must not be killed).</li> <li>• Supervisors to brief staff on bee and wasp awareness and First Aid Officers must be familiar with contractor's bee and wasp sting procedures.</li> <li>• Supervisors to brief staff on tick bite awareness and First Aid Officers must be familiar with contractor's tick bite procedures (i.e. If ticks are found, be patient when removing a tick from your skin, follow these steps: 1. Use Tweezers to grab the tick close to your skin, 2. Gently pull back, making sure the tick's head is not left in your skin. 3. Don't Squeeze the ticks body, if you do the bacteria may enter your skin. 4. After</li> </ul>	
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			<p>death, burns, and damage to property.</p>					<p>removing the tick, wash the bite with soap and water. See a Doctor right away if you notice any symptoms of Tick Bite Fever or Lymes Disease).</p> <ul style="list-style-type: none"> <li>• Flag man to be provided to ensure vehicles are guided onto site.</li> <li>• All Drivers Licences must be valid in order to drive any vehicle.</li> <li>• All passengers are to remain seated at all times with seatbelts fastened.</li> <li>• At no time will passengers be allowed to ride on the back of an open van, truck or trailer.</li> <li>• Riding on Plant will not be permitted.</li> <li>• All Vehicles and Plant must be regularly serviced and in good working order.</li> <li>• Inspection Records must be kept for all vehicles and plant.</li> <li>• Drivers and Operator must have a valid Medical Certificate of Fitness as conducted by an occupational medical practitioner (including a completed and Annexure 3 form).</li> <li>• No drivers/Operators to be under the influence of alcohol or drugs of any kind.</li> <li>• Rotating Orange Flashing Light to be on all vehicles and must be in good working order.</li> <li>• "Construction Vehicle" Sign to be placed on rear of vehicle.</li> <li>• All hand tools are to be inspected prior to use and inspected at least once per month. Inspections must be recorded on tool inspection check sheets.</li> <li>• Contractor ensure the Noise Induced Hearing Loss (NIHL) 2003 Regulations are complied with when working with or near</li> </ul>	
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								<p>noise generating equipment/plant – Hearing Protection to be worn by all workings in the immediate vicinity of the noise generating equipment/plant.</p> <ul style="list-style-type: none"> <li>• Supervisor to instruct the operator of the portable electric tools on the correct way to use them. Safe Operating Procedures are to be drawn up per Portable Electric Tool by contractor.</li> <li>• All ladders are to be numbered, labelled, inspected and recorded.</li> <li>• While someone is on the ladder someone is to be holding the ladder at all times. Safe Working Procedure for use of ladders is to be drawn up by contractor.</li> <li>• Emergency contact numbers for service providers (i.e. electricity and water department) must be available on site in the event that underground service is damaged.</li> <li>• Identify underground services using layout drawings from the municipality or make use CAT tool or manually digging to locating evidence of existing underground services.</li> <li>• Look for evidence of <b>underground</b> or overhead <b>services</b> that may be connected to any property.</li> <li>• Contractors to conduct daily toolbox talks on power cables in the ground dangers.</li> <li>• Ensure emergency procedure including flooding is in place to prevent drowning.</li> <li>• Smoking Areas must be set up in demarcated areas with signage, sand filled bucket/drum and a fire extinguisher.</li> <li>• Fire Extinguishers/ fire-fighting equipment (such as water carts) must be available on site in sufficient quantity.</li> </ul>	
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								<ul style="list-style-type: none"> <li>• Fire Marshals must be appointed and emergency procedures to deal with Fires and other emergencies to be communicated to all staff.</li> <li>• A Safe Work Procedure dealing with Lightning must be developed by the contractors dealing with the 30-30 Rule, what must be done, when work must be stopped, first aid, etc.</li> <li>• During Hot periods, regular breaks must be taken. Drinking water must be made available on site close to work areas. Sun block lotion must be provided and applied to exposed skin, long sleeve overalls to be worn and brim hats fitted to hard hats made available.</li> <li>• An MSDS Register must be maintained for all chemicals on site along with the respective MSDS documents. This includes MSDS for cement, fuel, oils, cleaning products, emulsions, chemical anchors, etc. All MSDS must be readily available to all staff on site. All chemical products must be kept and stored in accordance with the MSDS requirements.</li> <li>• Resting and eating areas must be provided near at site camp area.</li> <li>• Provide PPE: Safety Boots/Shoes, Hard Hat, Dust Mask, Eye Protection, Reflective Vest, 2 Piece Long Sleeve Overall, Gloves.</li> </ul>	
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No	LIST ITEMS/TASKS WITH ALL TASK STEPS (WHO WILL DO WHAT, WHERE AND WHEN)	POTENTIAL AND EXISTING HAZARDS  <ul style="list-style-type: none"> <li>• SAFETY</li> <li>• HEALTH</li> <li>• ENVIRONMENT</li> </ul>	RISK (CONSEQUENCE OF THE HAZARDS)  <ul style="list-style-type: none"> <li>• DEATH</li> <li>• LOSS</li> <li>• DAMAGED EQUIP</li> <li>• SPILLAGE, ETC</li> </ul>	PROB OF OCCUR 1/2/3	SEV OF OCCUR 3/4/5 1/6/7/8	FREQ OF OCCUR 1/2/3	SCORE TOTAL PxSxF	RISK RANK / PRIORITY FACTOR	PREVENTATIVE MEASURES AND CONTROLS  <ul style="list-style-type: none"> <li>• ELIMINATE RISK</li> <li>• CONTROL AT SOURCE</li> <li>• PUT/FOLLOW PROCEDURE</li> <li>• PROVIDE PPE</li> </ul>	SITE SPECIFIC PHOTOGRAPHS RELATING TO ITEMS
5.	Site Access Road Construction: - Gravel service roads for use during construction.	<ul style="list-style-type: none"> <li>• Manual Handling of equipment and materials.</li> <li>• Dust.</li> <li>• Snakes.</li> <li>• Bees &amp; Wasps.</li> <li>• Ticks.</li> <li>• Sun</li> <li>• Moving vehicles.</li> <li>• Movement of Mechanical aids including mobile cranes and plant.</li> <li>• Noise.</li> <li>• Underground services.</li> <li>• Inclement Weather.</li> <li>• Smoking/ Open Fires</li> <li>• Vibration (rolling compactors)</li> <li>• Uneven grounds</li> <li>• Fall risks</li> <li>• Trips and slips</li> </ul>	<ul style="list-style-type: none"> <li>• Manual handling injuries.</li> <li>• Dust being inhaled/ getting in eyes.</li> <li>• Snake Bites (Common venomous Kwa-Zulu Natal Snakes: Black mamba, Puff Adder, Boomslang, Rinkhals, Green Mamba, Forest/Black Cobra, Night Adder, etc).</li> <li>• Bee &amp; Wasp Stings causing Anaphylaxis (allergic reaction)</li> <li>• Tick Bites causing tick bit fever/ Lyme disease.</li> <li>• Ergonomics issues</li> <li>• Vehicle Collision &amp; Damage.</li> <li>• Collisions with Pedestrians.</li> <li>• Material Damage.</li> <li>• Equipment Damage.</li> <li>• Mechanical Aids Overturning causing death, injury or</li> </ul>	2	7	3	42	B	<ul style="list-style-type: none"> <li>• Responsible Supervisor to ensure Instructions are given on Manual handling using Safe Work Procedure (SWP) for Manual Handling: Where load is lifted, bending at the knees, not the back. Don't twist body with load in hands, always carry load close to the body, adhere to the recommended weight limit (RWL = 1/3 body weight or 25kg).</li> <li>• Contractor to conduct DSTI's (Daily Safety Task Instruction) to be conducted and communicated at the beginning of the shift on a daily basis. DSTI close out to be conducted and attendance registered signed by all staff.</li> <li>• Supervisor to control the delivery of aggregate to site, ensuring the delivery is placed in the predetermined demarcated area. Aggregate stock piles must not be higher than 2m.</li> <li>• Stacking and Storing to only be in designated areas and Contractor to develop and implement Stacking &amp; Storing Guidelines to cover items such as Ventilation, Lighting, Manoeuvring Space, Stacking Requirements, Emergency Exits, Access &amp; egress, etc.</li> <li>• All workers to have valid medicals with annexure 3 documents signed and stamped by Occupational Medical Practitioner.</li> </ul>	

			<p>damage to equipment/ materials.</p> <ul style="list-style-type: none"> <li>• Slips, trips and falls from uneven surfaces and soft sand.</li> <li>• Vehicles getting stuck in access roads and site areas causing delays and potential accidents.</li> <li>• NIHR (Noise Induced Hearing Loss).</li> <li>• Possible electrocution from existing underground services.</li> <li>• Damage to underground services.</li> <li>• Lightning Strike causing death, or severe burns/injuries.</li> <li>• Rain causing slippery conditions.</li> <li>• Heat stroke from being exposed to the sun for too long and sun burn.</li> <li>• Bush Fires caused by cigarettes/open fires causing smoke inhalation, possible</li> </ul>					<ul style="list-style-type: none"> <li>• Keep to safe speed limit 15km/h when driving on site.</li> <li>• Supervisors to brief staff on snake awareness and First Aid Officers must be familiar with contractor's snake bite procedures.</li> <li>• Supervisors to be training in capturing and releasing snakes (snakes must not be killed).</li> <li>• Supervisors to brief staff on bee and wasp awareness and First Aid Officers must be familiar with contractor's bee and wasp stinging procedures.</li> <li>• Supervisors to brief staff on tick bite awareness and First Aid Officers must be familiar with contractor's tick bite procedures (i.e. If ticks are found, be patient when removing a tick from your skin, follow these steps: 1. Use Tweezers to grab the tick close to your skin, 2. Gently pull back, making sure the tick's head is not left in your skin. 3. Don't Squeeze the ticks body, if you do the bacteria may enter your skin. 4. After removing the tick, wash the bite with soap and water. See a Doctor right away if you notice any symptoms of Tick Bite Fever or Lymes Disease).</li> <li>• Flag man to be provided to ensure vehicles are guided onto site.</li> <li>• All Drivers Licences must be valid in order to drive any vehicle.</li> <li>• Only Licensed and Appointed Mechanical Aids Operators (i.e. TLB operators, Bobcat Operators, etc) to operate plant on site.</li> </ul> <p>as far as is reasonably practicable, <b>ensure that machinery, plant or work systems</b></p>	
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			<p>death, burns, and damage to property.</p> <ul style="list-style-type: none"> <li>•HAVs (Hand Arm Vibration: permanent damage to dexterity of fingers, finger blanching) and WBV (Whole Body Vibration: back pain, long term can cause lumbar spinal damage also including the neck and shoulder region, musculoskeletal disorders, and motion sickness).</li> <li>• Multiple fatality</li> <li>• Multiple injuries due to person falling</li> <li>• Disablement</li> <li>• Property damage</li> </ul>					<p><b>optimise human well-being and overall system performance;</b></p> <p>(b)as far as is reasonably practicable, supply machinery, plant or work systems that can be <b>transported, received, stored and handled</b> in a manner that optimises human well-being and overall system performance;</p> <ul style="list-style-type: none"> <li>• (c)provide <b>information, instruction and training</b> as deemed necessary to allow potential users to achieve optimal human well-being and overall system performance during use of machinery, plant or work systems;</li> <li>• Inspection &amp; Maintenance records must be maintained for all mechanical aids on site.</li> <li>• Mechanical Aids must be operated in accordance with the operators training and manufacturers guidelines (e.g.: outriggers must be fully extended, Safe Work Loads (SWL) must be observed, work area below lifts must be clear and nobody is to walk under load or load be lifted over people, etc).</li> <li>• All passengers are to remain seated at all times with seatbelts fastened.</li> <li>• At no time will passengers be allowed to ride on the back of an open van, truck or trailer.</li> <li>• Riding on Plant will not be permitted.</li> <li>• If visibility is impaired your headlights must be on to see and to be seen.</li> <li>• All Vehicles and Plant must be regularly serviced and in good working order.</li> <li>• Inspection Records must be kept for all vehicles and plant.</li> </ul>	
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								<ul style="list-style-type: none"> <li>• Drivers and Operator must have a valid Medical Certificate of Fitness as conducted by an occupational medical practitioner (including a completed and Annexure 3 form).</li> <li>• No drivers/Operators to be under the influence of alcohol or drugs of any kind.</li> <li>• Rotating Orange Flashing Light to be on all vehicles and must be in good working order.</li> <li>• “Construction Vehicle” Sign to be placed on rear of vehicle.</li> <li>• Contractor ensure the Noise Induced Hearing Loss (NIHL) 2003 Regulations are complied with when working with or near noise generating equipment/plant – Hearing Protection to be worn by all workings in the immediate vicinity of the noise generating equipment/plant.</li> <li>• Contractors to conduct daily toolbox talks on power cables in the ground dangers.</li> <li>• A Safe Work Procedure dealing with Lightning must be developed by the contractors dealing with the 30-30 Rule, what must be done, when work must be stopped, first aid, etc.</li> <li>• During Hot periods, regular breaks must be taken. Drinking water must be made available on site close to work areas. Sun block lotion must be provided and applied to exposed skin, long sleeve overalls to be worn and brim hats fitted to hard hats made available.</li> <li>• Resting and eating areas must be provided near at site camp area.</li> <li>• Chemical toilets are to be provided close to work area as per CR30 (1)(b) in the correct ratio of 30:1 per sex.</li> </ul>	
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						<ul style="list-style-type: none"> <li>• Emergency contact numbers for service providers (i.e. electricity and water department) must be available on site in the event that underground service is damaged.</li> <li>• Identify underground services using layout drawings from the municipality or make use CAT tool or manually digging to locating evidence of existing underground services.</li> <li>• Look for evidence of <b>underground</b> or overhead <b>services</b> that may be connected to any property.</li> <li>• Contractors to conduct daily toolbox talks on power cables in the ground dangers.</li> <li>• Ensure emergency procedure including flooding is in place to prevent drowning.</li> <li>• Smoking Areas must be set up in demarcated areas with signage, sand filled bucket/drum and a fire extinguisher.</li> <li>• Fire Extinguishers/ firefighting equipment (such as water carts) must be available on site in sufficient quantity.</li> <li>• Fire Marshals must be appointed and emergency procedures to deal with Fires and other emergencies to be communicated to all staff.</li> <li>• Contractor to conduct DSTI's (Daily Safety Task Instruction) to be conducted and communicated at the beginning of the shift on a daily basis. DSTI close out to be conducted and attendance registered signed by all staff.</li> <li>• Emergency Assembly points must be set up for each work area and for the site camp area.</li> <li>• Detailed Traffic Management Plan required for each situation where traffic</li> </ul>	
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								<p>interacts with the work area (work area specific Traffic Management Plan).</p> <ul style="list-style-type: none"> <li>• Delineators required with appropriate signage to redirect traffic flow on site.</li> <li>• Employee/operator exposure to vibrating equipment/plant to be kept within the machine/plants EAV (Exposure Action Value) and ELV (Exposure Limit Value).</li> <li>• Ensure mechanical controls are maintained to prevent WBV (e.g. suspension seats in good working order, vehicle suspension maintained, etc).</li> <li>• Where load is lifted, bending at the knees, not the back. Don't twist body with the load in hands, always carry load close to the body, adhere to the recommended weight limit (RWL =1/3 body weight or 25 kg)</li> </ul> <p>as far as is reasonably practicable, <b>ensure that machinery, plant or work systems optimise human well-being and overall system performance;</b></p> <p>(b) as far as is reasonably practicable, supply machinery, plant or work systems that can be <b>transported, received, stored and handled</b> in a manner that optimises human well-being and overall system performance;</p> <ul style="list-style-type: none"> <li>• (c) provide <b>information, instruction and training</b> as deemed necessary to allow potential users to achieve optimal human well-being and overall system performance during use of machinery, plant or work systems;</li> <li>• No smoking or naked flames / sources of sparks, heat etc. will be permitted in or near the vehicle transporting explosives or the charging area.</li> </ul>	
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									<ul style="list-style-type: none"> <li>• Provide PPE: Safety Boots/Shoes, Hard Hat, Dust Mask, Eye Protection, Reflective Vest, 2 Piece Long Sleeve Overall, Rain Suits, Gloves.</li> </ul>	
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# KWAZULU-NATAL PROVINCE

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## AGRICULTURE AND RURAL DEVELOPMENT

### REPUBLIC OF SOUTH AFRICA

No	LIST ITEMS/TASKS WITH ALL TASK STEPS (WHO WILL DO WHAT, WHERE AND WHEN)	POTENTIAL AND EXISTING HAZARDS  <ul style="list-style-type: none"> <li>• SAFETY</li> <li>• HEALTH</li> <li>• ENVIRONMENT</li> </ul>	RISK (CONSEQUENCE OF THE HAZARDS)  <ul style="list-style-type: none"> <li>• DEATH</li> <li>• LOSS</li> <li>• DAMAGED EQUIP</li> <li>• SPILLAGE, ETC</li> </ul>	PROB OF OCCUR 1/2/3	SEV OF OCCUR 3/4/5 1/6/7/8	FREQ OF OCCUR 1/2/3	SCORE TOTAL PxSxF	RISK RANK / PRIORITY FACTOR	PREVENTATIVE MEASURES AND CONTROLS  <ul style="list-style-type: none"> <li>• ELIMINATE RISK</li> <li>• CONTROL AT SOURCE</li> <li>• PUT/FOLLOW PROCEDURE</li> <li>• PROVIDE PPE</li> </ul>
6.	Expose by digging test holes and Identify Existing Pipeline: - Hand tool excavation only. - Demarcate and barricade once exposed route is identified (can be backfilled once exposed to allow pedestrians and light motor vehicles to cross over ( <i>note</i> : no heavy vehicles/ plant to cross over pipeline).	<ul style="list-style-type: none"> <li>• Manual Handling.</li> <li>• Dust.</li> <li>• Snakes.</li> <li>• Bees &amp; Wasps.</li> <li>• Ticks.</li> <li>• Moving vehicles.</li> <li>• Movement of Mechanical aids on site.</li> <li>• Underground services.</li> <li>• Inclement Weather.</li> <li>• Smoking/ Open Fires</li> <li>• Sun</li> <li>• Excavations.</li> </ul>	<ul style="list-style-type: none"> <li>• Manual handling injuries.</li> <li>• Dust being inhaled/ getting in eyes.</li> <li>• Snake Bites (Common venomous Kwa-Zulu Natal Snakes: Black mamba, Puff Adder, Boomslang, Rinkhals, Green Mamba, Forest/Black Cobra, Night Adder, etc).</li> <li>• Bee &amp; Wasp Stings causing Anaphylaxis (allergic reaction)</li> <li>• Tick Bites causing tick bit fever/ Lyme disease.</li> <li>• Ergonomic issues/exposure</li> <li>• Vehicle/ Plant Collisions with workers.</li> <li>• Slips, trips and falls causing sprains and minor injuries.</li> <li>• Possible electrocution from existing</li> </ul>	2	7	3	42	B	<ul style="list-style-type: none"> <li>• Responsible Supervisor to ensure Instructions are given on Manual handling using Safe Work Procedure (SWP) for Manual Handling: Where load is lifted, bending at the knees, not the back. Don't twist body with load in hands, always carry load close to the body, adhere to the recommended weight limit (RWL = 1/3 body weight or 25kg).</li> <li>• Contractor to conduct DSTI's (Daily Safety Task Instruction) to be conducted and communicated at the beginning of the shift on a daily basis. DSTI close out to be conducted and attendance registered signed by all staff.</li> <li>• as far as is reasonably practicable, ensure that machinery, plant or work systems optimise human well being and overall system performance</li> <li>(b)as far as is reasonably practicable, supply machinery, plant or work systems that can be transported, received, stored and handled in a manner that optimises human wellbeing and overall system performance</li> <li>(c)provide information, instruction and training as deemed necessary to allow potential users to achieve optimal human well</li> </ul>

			<p>underground services.</p> <ul style="list-style-type: none"> <li>• Damage to underground services.</li> <li>• Lightning Strike causing death, or severe burns/injuries.</li> <li>• Rain causing slippery conditions.</li> <li>• Heat stroke from being exposed to the sun for too long and sun burn.</li> <li>• Bush Fires caused by cigarettes/open fires causing smoke inhalation, possible death, burns, and damage to property.</li> <li>• Excavation collapse causing death or serious injury and equipment damage.</li> <li>• Falls into excavations causing death or serious injury.</li> <li>• Pipeline rupture/damage</li> </ul>					<p>being and overall system performance during use of machinery, plant or work systems;</p> <ul style="list-style-type: none"> <li>• All workers to have valid medicals with annexure 3 documents signed and stamped by Occupational Medical Practitioner.</li> <li>• Vehicles and plant to keep to safe speed limit 15km/h when driving on site.</li> <li>• Supervisors to brief staff on snake awareness and First Aid Officers must be familiar with contractor's snake bite procedures.</li> <li>• Supervisors to be training in capturing and releasing snakes (snakes must not be killed).</li> <li>• Supervisors to brief staff on bee and wasp awareness and First Aid Officers must be familiar with contractor's bee and wasp stinging procedures.</li> <li>• Supervisors to brief staff on tick bite awareness and First Aid Officers must be familiar with contractor's tick bite procedures (i.e. If ticks are found, be patient when removing a tick from your skin, follow these steps: 1. Use Tweezers to grab the tick close to your skin, 2. Gently pull back, making sure the tick's head is not left in your skin. 3. Don't Squeeze the tick's body, if you do the bacteria may enter your skin. 4. After removing the tick, wash the bite with soap and water. See a Doctor right away if you notice any symptoms of Tick Bite Fever or Lymes Disease).</li> <li>• Flag man to be provided to ensure vehicles are guided onto site especially when reversing.</li> </ul>	
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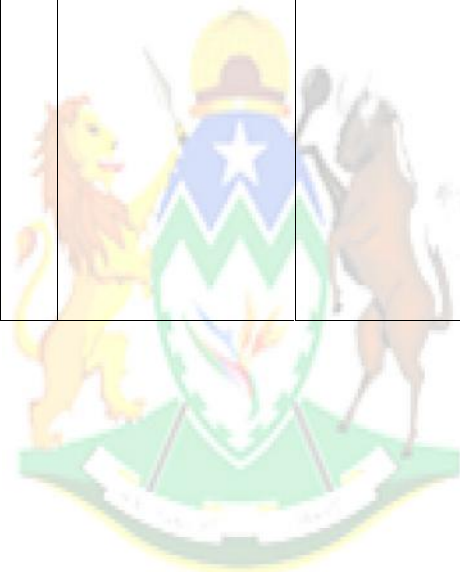
								<ul style="list-style-type: none"> <li>• All Drivers Licences must be valid in order to drive any vehicle.</li> <li>• All passengers are to remain seated at all times with seatbelts fastened.</li> <li>• At no time will passengers be allowed to ride on the back of an open van, truck or trailer.</li> <li>• Riding on Plant will not be permitted.</li> <li>• All Vehicles and Plant must be regularly serviced and in good working order.</li> <li>• Inspection Records must be kept for all vehicles and plant.</li> <li>• Drivers and Operator must have a valid Medical Certificate of Fitness as conducted by an occupational medical practitioner (including a completed and Annexure 3 form).</li> <li>• No drivers/Operators to be under the influence of alcohol or drugs of any kind.</li> <li>• Rotating Orange Flashing Light to be on all vehicles and must be in good working order.</li> <li>• "Construction Vehicle" Sign to be placed on rear of vehicle.</li> <li>• All hand tools are to be inspected prior to use and inspected at least once per month. Inspections must be recorded on tool inspection check sheets.</li> <li>• Spoil must be placed at lease 1.5m from the edge of the excavation.</li> <li>• Shoring may be required depending on depth, soil type and if required by engineer.</li> <li>• Safe access and egress must be provided to the excavation.</li> </ul>	
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								<ul style="list-style-type: none"> <li>• Physical solid barricading must be placed on all sides of the excavation (rigid poles with shade cloth/ snow netting will be permitted and must be at least 1.5m from excavation edge) if 1.5m not possible, solid “speed fencing” type barricading must be used (edge of excavation may be unstable and this must be taken into account when placing the barricading, the Clients Safety Consultant will have the right to instruct the contractor which barricading is to be used (based on safest option).</li> <li>• Barricading must be numbered and tagged and must be inspected daily with inspection records kept on file.</li> <li>• Emergency contact numbers for service providers (i.e. electricity and water department) must be available on site in the event that underground service is damaged.</li> <li>• Emergency contact numbers for service providers (i.e. electricity and water department) must be available on site in the event that underground service is damaged.</li> <li>• Identify underground services using layout drawings from the municipality or make use CAT tool or manually digging to locating evidence of existing underground services.</li> <li>• Look for evidence of <b>underground</b> or overhead <b>services</b> that may be connected to any property.</li> <li>• Contractors to conduct daily toolbox talks on power cables in the ground dangers.</li> <li>• Ensure emergency procedure including flooding is in place to prevent drowning.</li> </ul>	
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						<ul style="list-style-type: none"> <li>• Contractors to conduct daily toolbox talks on power cables in the ground dangers.</li> <li>• Smoking Areas must be set up in demarcated areas with signage, sand filled bucket/drum and a fire extinguisher.</li> <li>• Fire Extinguishers/ fire-fighting equipment (such as water carts) must be available on site in sufficient quantity.</li> <li>• Fire Marshals must be appointed and emergency procedures to deal with Fires and other emergencies to be communicated to all staff.</li> <li>• A Safe Work Procedure dealing with Lightning must be developed by the contractors dealing with the 30-30 Rule, what must be done, when work must be stopped, first aid, etc.</li> <li>• During Hot periods, regular breaks must be taken. Drinking water must be made available on site close to work areas. Sun block lotion must be provided and applied to exposed skin, long sleeve overalls to be worn and brim hats fitted to hard hats made available.</li> <li>• Resting and eating areas must be provided near at site camp area.</li> <li>• Hygiene must be at the heart of the contractor's safety awareness campaigns. Washing hands with soap and water, using gloves, not eating or drinking in work areas, etc. A Hygiene policy and plan must be drafted and communicated to all workers. It must be maintained and implemented with daily focus on it.</li> <li>• Medical surveillance of workers who work close to or in contaminated areas must be conducted. Reporting procedures for ill-health must be established and workers</li> </ul>	
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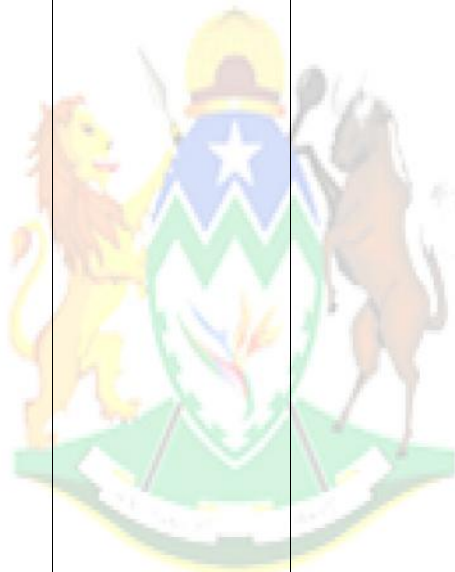
									<p>must be encouraged to report on ill-health. The contractor's occupational healthcare practitioner should advise on who the medical surveillance should be conducted on.</p> <ul style="list-style-type: none"> <li>• Exposure of pipeline to identify its exact location must be conducted so that markers can be placed and restrictions put in place to only allow pedestrians and light motor vehicles to cross over the pipeline.</li> <li>• Procedure to deal with pipeline rupture in the event of accidental damage along with spare pipe and equipment to repair any leaks/ ruptures to pipeline must be on site. Reporting procedure and key personnel must be identified and communicated to all staff (including sub-contractors).</li> <li>• Provide PPE: Safety Boots/Shoes, Hard Hat, Dust Mask, Eye Protection, Reflective Vest, 2 Piece Long Sleeve Overall, Gloves.</li> </ul>	
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KWAZULU-NATAL PROVINCE

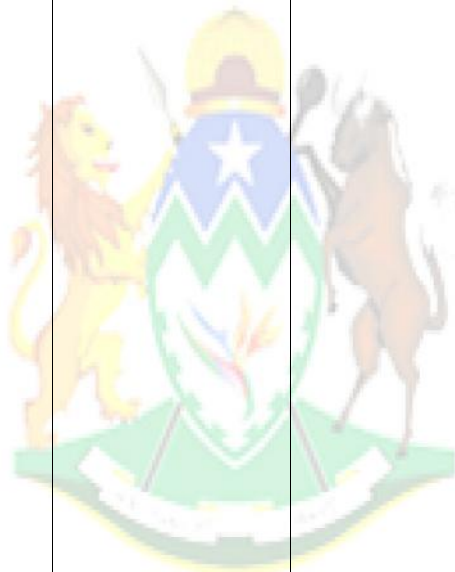
AGRICULTURE AND RURAL DEVELOPMENT  
 REPUBLIC OF SOUTH AFRICA

No	LIST ITEMS/TASKS WITH ALL TASK STEPS (WHO WILL DO WHAT, WHERE AND WHEN)	POTENTIAL AND EXISTING HAZARDS	RISK (CONSEQUENCE OF THE HAZARDS)	PROB OF OCCUR 1/2/3	SEV OF OCCUR 3/4/5 /6/7/8	FREQ OF OCCUR 1/2/3	SCORE TOTAL PXSXF	RISK RANK / PRIORITY FACTOR	PREVENTATIVE MEASURES AND CONTROLS	SITE SPECIFIC PHOTOGRAPHS RELATING TO ITEMS
7.	<p>New Pipeline:</p> <ul style="list-style-type: none"> <li>- Pipeline excavations.</li> <li>- Placement of pipes using cranes.</li> <li>- Manhole construction.</li> <li>- Compact ground using whackers/rolling compactors, plate compactors, etc.</li> </ul>	<ul style="list-style-type: none"> <li>• Manual Handling.</li> <li>• Dust.</li> <li>• Snakes.</li> <li>• Bees &amp; Wasps.</li> <li>• Ticks.</li> <li>• Animals (dogs)</li> <li>• Traffic/ Road crossing</li> <li>• Pedestrians/ Public</li> <li>• Movement of Mechanical aids on site.</li> <li>• Underground services.</li> <li>• Inclement Weather.</li> <li>• Smoking/ Open Fires</li> <li>• Sun.</li> <li>• Excavations.</li> <li>• Live Overhead Power lines.</li> <li>• Noise.</li> <li>• Cement.</li> <li>• Confined Spaces.</li> <li>• Vibration (compacting earth).</li> </ul>	<ul style="list-style-type: none"> <li>• DEATH</li> <li>• LOSS</li> <li>• DAMAGED EQUIP</li> <li>• SPILLAGE, ETC</li> </ul> <ul style="list-style-type: none"> <li>• Manual handling injuries.</li> <li>• Dust being inhaled/ getting in eyes.</li> <li>• Snake Bites (Common venomous Kwa-Zulu Natal Snakes: Black mamba, Puff Adder, Boomslang, Rinkhals, Green Mamba, Forest/Black Cobra, Night Adder, etc.).</li> <li>• Bee &amp; Wasp Stings causing Anaphylaxis (allergic reaction)</li> <li>• Tick Bites causing tick bit fever/ Lyme disease.</li> <li>• Vehicle/ Plant Collisions with workers/ public/animals.</li> <li>• Slips, trips and falls causing sprains and minor injuries.</li> <li>• Possible damage existing underground services causing</li> </ul>	3	7	3	63	AA	<ul style="list-style-type: none"> <li>• ELIMINATE RISK</li> <li>• CONTROL AT SOURCE</li> <li>• PUT/FOLLOW PROCEDURE</li> <li>• PROVIDE PPE</li> </ul> <ul style="list-style-type: none"> <li>• Responsible Supervisor to ensure Instructions are given on Manual handling using Safe Work Procedure (SWP) for Manual Handling: Where load is lifted, bending at the knees, not the back. Don't twist body with load in hands, always carry load close to the body, adhere to the recommended weight limit (RWL = 1/3 body weight or 25kg).</li> <li>• Contractor to conduct DSTI's (Daily Safety Task Instruction) to be conducted and communicated at the beginning of the shift on a daily basis. DSTI close out to be conducted and attendance registered signed by all staff.</li> <li>• All workers to have valid medicals with annexure 3 documents signed and stamped by Occupational Medical Practitioner.</li> <li>• Contractor ensure the Noise Induced Hearing Loss (NIHL) 2003 Regulations are complied with when working with or near noise generating equipment/plant – Hearing Protection to be worn by all workings in the immediate vicinity of the noise generating equipment/plant.</li> <li>• Supervisors to brief staff on snake awareness and First Aid Officers must be familiar with contractor's snake bite procedures.</li> </ul>	

			<p>electrocution (death or serious injury).</p> <ul style="list-style-type: none"> <li>• Damage to underground services.</li> <li>• Slipping and falling of plant and employees causing damage to property and injuries to employees.</li> <li>• NIHR (Noise Induced Hearing Loss).</li> <li>• Lightning Strike causing death, or severe burns/injuries.</li> <li>• Rain causing slippery conditions.</li> <li>• Heat stroke from being exposed to the sun for too long and sun burn.</li> <li>• Bush Fires caused by cigarettes/open fires causing smoke inhalation, possible death, burns, and damage to property.</li> <li>• Vehicle Collision &amp; Damage.</li> <li>• Material Damage.</li> <li>• Equipment Damage.</li> <li>• Collision/impacts of mobile lifting equipment, loads</li> </ul>					<ul style="list-style-type: none"> <li>• Supervisors to be training in capturing and releasing snakes (snakes must not be killed).</li> <li>• Supervisors to brief staff on bee and wasp awareness and First Aid Officers must be familiar with contractor's bee and wasp sting procedures.</li> <li>• Supervisors to brief staff on tick bite awareness and First Aid Officers must be familiar with contractor's tick bite procedures (i.e. If ticks are found, be patient when removing a tick from your skin, follow these steps: 1. Use Tweezers to grab the tick close to your skin, 2. Gently pull back, making sure the tick's head is not left in your skin. 3. Don't Squeeze the tick's body, if you do the bacteria may enter your skin. 4. After removing the tick, wash the bite with soap and water. See a Doctor right away if you notice any symptoms of Tick Bite Fever or Lymes Disease).</li> <li>• All hand tools are to be inspected prior to use and inspected at least once per month. Inspections must be recorded on tool inspection check sheets.</li> <li>• Spoil must be placed at lease 1.5m from the edge of the excavation.</li> <li>• Shoring may be required depending on depth, soil type and if required by engineer.</li> <li>• Safe access and egress must be provided to the excavation.</li> <li>• Physical solid barricading must be placed on all sides of the excavation (rigid poles with shade cloth/ snow netting will be permitted and must be at least 1.5m from excavation edge) if 1.5m not possible,</li> </ul>	
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			<p>and dropped loads with process plant, electrical cables and people.</p> <ul style="list-style-type: none"> <li>• Mechanical Aids Overturning causing death, injury or damage to equipment/ materials.</li> <li>• Loads falling on top of people causing death or serious injury.</li> <li>• Loads falling causing damage to plant, material &amp; equipment.</li> <li>• Mechanical Aids/ Plant coming into contact with Overhead Power lines causing death, serious injury or damage.</li> <li>• Ergonomics issues/exposure.</li> <li>• Excavation collapse causing death or serious injury and equipment damage.</li> <li>• Falls into excavations causing death or serious injury.</li> <li>• Chemical burns/ contact dermatitis from cement and</li> </ul>					<p>solid “speed fencing” type barricading must be used (edge of excavation may be unstable and this must be taken into account when placing the barricading, the Clients Safety Consultant will have the right to instruct the contractor which barricading is to be used (based on safest option).</p> <ul style="list-style-type: none"> <li>• Barricading must be numbered and tagged and must be inspected daily with inspection records kept on file.</li> <li>• Slipping and falling of plant and employees causing damage to property and injuries to employees.</li> <li>• Fall Protection Plan must be drafted, communicated and Implemented an appointed, competent and qualified Fall Protection Planner (CR10.1a) who holds a valid certificate accredited by SAQA US229998 &amp; 229994 and must be registered with a professional body such as the IWH (Institute for Working at Height).</li> <li>• All employees working at heights to have valid fall arrest certificate as detailed in the Fall Protection Plan (SAQA US: 229998 as minimum).</li> <li>• Emergency contact numbers for service providers (i.e. electricity and water department) must be available on site in the event that underground service is damaged.</li> <li>• Emergency contact numbers for service providers (i.e. electricity and water department) must be available on site in the event that underground service is damaged.</li> <li>• Identify underground services using layout drawings from the municipality or</li> </ul>	
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			<p>eye injuries from cement splashes and other chemical products such as chemical anchors, etc.</p> <ul style="list-style-type: none"> <li>• Death or serious injury from confined space entries:           <ul style="list-style-type: none"> <li>- Reduced oxygen levels.</li> <li>- Increased levels of Carbon Monoxide and possible traces of other gasses (process dependant).</li> </ul> </li> <li>• HAVs (Hand Arm Vibration: permanent damage to dexterity of fingers, finger blanching) and WBV (Whole Body Vibration: back pain, long term can cause lumbar spinal damage also including the neck and shoulder region, musculoskeletal disorders, and motion sickness).</li> </ul>					<p>make use CAT tool or manually digging to locating evidence of existing underground services.</p> <ul style="list-style-type: none"> <li>• Look for evidence of <b>underground</b> or overhead <b>services</b> that may be connected to any property.</li> <li>• Ensure the excavator does not touch the overhead power lines, the supervisor to guide and direct the operator. Ensure no one is working below the load.</li> <li>• Contractors to conduct daily toolbox talks on power cables in the ground dangers.</li> <li>• Ensure emergency procedure including flooding is in place to prevent drowning.</li> <li>• Contractors to conduct daily toolbox talks on power cables in the ground dangers.</li> <li>• Smoking Areas must be set up in demarcated areas with signage, sand filled bucket/drum and a fire extinguisher.</li> <li>• Fire Extinguishers/ fire-fighting equipment (such as water carts) must be available on site in sufficient quantity.</li> <li>• Fire Marshals must be appointed and emergency procedures to deal with Fires and other emergencies to be communicated to all staff.</li> <li>• A Safe Work Procedure dealing with Lightning must be developed by the contractors dealing with the 30-30 Rule, what must be done, when work must be stopped, first aid, etc.</li> <li>• During Hot periods, regular breaks must be taken. Drinking water must be made available on site close to work areas. Sun block lotion must be provided and applied to exposed skin, long sleeve overalls to be worn and brim hats fitted to hard hats made available.</li> </ul>	
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								<ul style="list-style-type: none"> <li>• Resting and eating areas must be provided near at site camp area.</li> <li>• Hygiene must be at the heart of the contractor's safety awareness campaigns. Washing hands with soap and water, using gloves, not eating or drinking in work areas, etc. A Hygiene policy and plan must be drafted and communicated to all workers. It must be maintained and implemented with daily focus on it.</li> <li>• Keep to safe speed limit 15km/h when driving on site.</li> <li>• Flag man to be provided to ensure vehicles are guided onto site.</li> <li>• All Drivers Licences must be valid in order to drive any vehicle.</li> <li>• Only Licensed and Appointed Mechanical Aids Operators (i.e. Crane Operators, TLB operators, Bobcat Operators, etc) to operate plant on site.</li> <li>• Drivers and Operator must have a valid Medical Certificate of Fitness as conducted by an occupational medical practitioner (including a completed and Annexure 3 form).</li> <li>• Inspection &amp; Maintenance records must be maintained for all mechanical aids on site.</li> <li>• Mechanical Aids must be operated in accordance with the operators training and manufacturers guidelines (e.g.: outriggers must be fully extended, Safe Work Loads (SWL) must be observed, work area below lifts must be clear and nobody is to walk under load or load be lifted over people, etc).</li> <li>• Suitably qualified and competent riggers must be appointed. Riggers certificates</li> </ul>	
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								<p>must indicate level of rigging competency and must be an accredited course.</p> <ul style="list-style-type: none"> <li>• Rigging study (where required) must be in place and signed off by the rigging team.</li> <li>• Tag lines must be used to control loads so that there is no need for anyone to be near or under the load.</li> <li>• All passengers are to remain seated at all times with seatbelts fastened.</li> <li>• At no time will passengers be allowed to ride on the back of an open van, truck or trailer.</li> <li>• Riding on Plant will not be permitted.</li> <li>• All Vehicles and Plant must be regularly serviced and in good working order.</li> <li>• Inspection Records must be kept for all vehicles.</li> <li>• No drivers/Operators to be under the influence of alcohol or drugs of any kind.</li> <li>• Rotating Orange Flashing Light to be on all vehicles and must be in good working order.</li> <li>• “Construction Vehicle” Sign to be placed on rear of vehicle.</li> </ul> <p>as far as is reasonably practicable, <b>ensure that machinery, plant or work systems optimise human well-being and overall system performance;</b></p> <p>(b) as far as is reasonably practicable, supply machinery, plant or work systems that can be <b>transported, received, stored and handled</b> in a manner that optimises human well-being and overall system performance;</p>	
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						<ul style="list-style-type: none"> <li>• (c)provide <b>information, instruction and training</b> as deemed necessary to allow potential users to achieve optimal human well-being and overall system performance during use of machinery, plant or work systems;</li> <li>• Passageway barriers (height restricting barriers) to be erected near power line work.</li> <li>• Principal contractor to appoint a competent and qualified designer to design and sign off on formwork structures and on specialised scaffolding (where required).</li> <li>• Scaffolding to be built to SANS10085 specification. Erected and Inspected by appointed, qualified and competent persons.</li> <li>• Fall Protection Plan must be drafted, communicated and Implemented an appointed, competent and qualified Fall Protection Planner (CR10.1a) who holds a valid certificate accredited by SAQA US229998 &amp;229994 and must be registered with a professional body such as the IWH (Institute for Working at Height).</li> <li>• All employees working at heights to have valid fall arrest certificate as detailed in the Fall Protection Plan (SAQA US: 229998 as minimum).</li> <li>• An MSDS Register must be maintained for all chemicals on site along with the respective MSDS documents. This includes MSDS for cement, fuel, oils, cleaning products, emulsions, chemical anchors, etc. All MSDS must be readily available to all staff on site. All chemical</li> </ul>	
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								<p>products must be kept and stored in accordance with the MSDS requirements.</p> <ul style="list-style-type: none"> <li>• Permit to Work system is to be implemented for all Confined Space Work and must be controlled by the contractors Health and Safety Manager.</li> <li>• A confined space entry procedure must be drafted and submitted to the client for approval prior to any confined space entries.</li> <li>• Contractor must comply with the Occupational Health and Safety Act 85 of 1993, General Safety Regulation 5. All employees entering a confined space must be appropriately trained.</li> <li>• Confined Space must be continuously monitored, trained rescue teams must be in place during confined space work, radio communication &amp; adequate ventilation and resuscitation equipment must be provided. Air monitoring must be conducted with a calibrated device suited to the type of hazards present in the confined space.</li> <li>• Employee/operator exposure to vibrating equipment/plant to be kept within the machine/plants EAV (Exposure Action Value) and ELV (Exposure Limit Value).</li> <li>• Ensure mechanical controls are maintained to prevent WBV (e.g. suspension seats in good working order, vehicle suspension maintained, etc).</li> <li>• Provide PPE: Safety Boots/Shoes, Hard Hat, FFP3 Dust Mask, Eye Protection, Reflective Vest, 2 Piece Long Sleeve Overall, Rain Suits, Gloves and Double Lanyard Harnesses (where required).</li> </ul>	
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No	LIST ITEMS/TASKS WITH ALL TASK STEPS (WHO WILL DO WHAT, WHERE AND WHEN)	POTENTIAL AND EXISTING HAZARDS  <ul style="list-style-type: none"> <li>• SAFETY</li> <li>• HEALTH</li> <li>• ENVIRONMENT</li> </ul>	RISK (CONSEQUENCE OF THE HAZARDS)  <ul style="list-style-type: none"> <li>• DEATH</li> <li>• LOSS</li> <li>• DAMAGED EQUIP</li> <li>• SPILLAGE, ETC</li> </ul>	PROB OF OCCUR 1/2/3	SEV OF OCCUR 3/4/5 16/7/1 8	FREQ OF OCCUR 1/2/3	SCORE TOTAL PxSxF	RISK RANK / PRIORITY FACTOR	PREVENTATIVE MEASURES AND CONTROLS  <ul style="list-style-type: none"> <li>• ELIMINATE RISK</li> <li>• CONTROL AT SOURCE</li> <li>• PUT/FOLLOW PROCEDURE</li> <li>• PROVIDE PPE</li> </ul>	
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# KWAZULU-NATAL PROVINCE

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8.	<p><b>Site Close Out:</b></p> <ul style="list-style-type: none"> <li>- Removing Materials and Equipment.</li> <li>- Loading by Hand</li> <li>- Loading using Mechanical Aids.</li> <li>- Rehabilitating Site Camp back to original state.</li> </ul>	<ul style="list-style-type: none"> <li>• Manual Handling of equipment and materials.</li> <li>• Dust.</li> <li>• Snakes.</li> <li>• Bees &amp; Wasps.</li> <li>• Ticks.</li> <li>• Moving vehicles.</li> <li>• Materials/Objects in the walkways.</li> <li>• Uneven surfaces between vehicle and lay down area.</li> <li>• Excessive speeds/ Driving Recklessly.</li> <li>• Fatigue.</li> <li>• Other vehicles driving unsafely.</li> <li>• Movement of Mechanical aids including mobile cranes and plant.</li> <li>• Fuel (Petrol &amp; Diesel)</li> <li>• Inclement Weather.</li> <li>• Smoking/ Open Fires</li> <li>• Sun</li> </ul>	<ul style="list-style-type: none"> <li>• Manual handling injuries.</li> <li>• Dust being inhaled/ getting in eyes.</li> <li>• Snake Bites (Common venomous Kwa-Zulu Natal Snakes: Black mamba, Puff Adder, Boomslang, Rinkhals, Green Mamba, Forest/Black Cobra, Night Adder, etc).</li> <li>• Bee &amp; Wasp Stings causing Anaphylaxis (allergic reaction)</li> <li>• Tick Bites causing tick bit fever/Lymes disease.</li> <li>• Vehicle Collision &amp; Damage.</li> <li>• Ergonomics exposure/issues</li> <li>• Collisions with Pedestrians.</li> <li>• Material Damage.</li> <li>• Equipment Damage.</li> <li>• Collision/impacts of mobile lifting equipment, loads and dropped loads with process plant, pipe work, electrical cables and people.</li> <li>• Mechanical Aids Overturning causing</li> </ul>	2	8	3	48	B	<ul style="list-style-type: none"> <li>• Responsible Supervisor to ensure Instructions are given on Manual handling using Safe Work Procedure (SWP) for Manual Handling: Where load is lifted, bending at the knees, not the back. Don't twist body with load in hands, always carry load close to the body, adhere to the recommended weight limit (RWL = 1/3 body weight or 25kg).</li> <li>• Contractor to conduct DSTI's (Daily Safety Task Instruction) to be conducted and communicated at the beginning of the shift on a daily basis. DSTI close out to be conducted and attendance registered signed by all staff.</li> <li>• Ensure Off-loading area is clear, level, secure and free from slip trip and falling hazards.</li> <li>• Stacking &amp; Storage Supervisor to be appointed to control lay down areas.</li> <li>• All workers to have valid medicals with annexure 3 documents signed and stamped by Occupational Medical Practitioner.</li> <li>• Stacking and Storing to only be in designated areas and Contractor to develop and implement Stacking &amp; Storing Guidelines to cover items such as Ventilation, Lighting, Manoeuvring Space, Stacking Requirements, Emergency Exits, Access &amp; egress, etc.</li> <li>• Keep to safe speed limit 15km/h when driving on site.</li> <li>• Supervisors to brief staff on snake awareness and First Aid Officers must be familiar with contractor's snake bite procedures.</li> </ul>	
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			<p>death, injury or damage to equipment/ materials.</p> <ul style="list-style-type: none"> <li>• Slips, trips and falls from uneven surfaces, piles of rubble and soft sand.</li> <li>• Hydrocarbon spills from refuelling area &amp; or vehicle/plant leaks.</li> <li>• Lightning Strike causing death, or severe burns/injuries.</li> <li>• Rain causing slippery conditions.</li> <li>• Heat stroke from being exposed to the sun for too long and sun burn.</li> <li>• Bush Fires caused by cigarettes/open fires causing smoke inhalation, possible death, burns, and damage to property.</li> </ul>					<ul style="list-style-type: none"> <li>• Supervisors to brief staff on bee and wasp awareness and First Aid Officers must be familiar with contractor's bee and wasp stinging procedures.</li> <li>• Supervisors to brief staff on tick bite awareness and First Aid Officers must be familiar with contractor's tick bite procedures.</li> <li>• Flag man to be provided to ensure vehicles are guided onto site.</li> <li>• All Drivers Licences must be valid in order to drive any vehicle.</li> <li>• Only Licensed and Appointed Mechanical Aids Operators (i.e. Crane Operators, TLB operators, Bobcat Operators, etc) to operate plant on site.</li> <li>• Inspection &amp; Maintenance records must be maintained for all mechanical aids on site.</li> <li>• Mechanical Aids must be operated in accordance with the operators training and manufacturers guidelines (e.g.: outriggers must be fully extended, Safe Work Loads (SWL) must be observed, work area below lifts must be clear and nobody is to walk under load or load be lifted over people, etc).</li> <li>• as far as is reasonably practicable, ensure that machinery, plant or work systems optimise human well being and overall system performance</li> <li>• (b)as far as is reasonably practicable, supply machinery, plant or work systems that can be transported, received, stored and handled in a manner that optimises human well being and overall system performance</li> </ul>	
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						<ul style="list-style-type: none"> <li>• (c)provide information, instruction and training as deemed necessary to allow potential users to achieve optimal human well being and overall system performance during use of machinery, plant or work systems;</li> <li>• Suitably qualified and competent riggers must be appointed. Riggers certificates must indicate level of rigging competency and must be an accredited course.</li> <li>• Rigging study (where required) must be in place and signed off by the rigging team.</li> <li>• All drives are to be warned about the road conditions.</li> <li>• All passengers are to remain seated at all times with seatbelts fastened.</li> <li>• At no time will passengers be allowed to ride on the back of an open van, truck or trailer.</li> <li>• Riding on Plant will not be permitted.</li> <li>• Drivers are to be wide awake and should not be allowed to drive if they are feeling tired or sleepy. Regular breaks at least 2 hourly.</li> <li>• Recommended to have an alternative driver available to share driving time (where required on long commutes).</li> <li>• Do Not exceed Speed Limits, and ensure speeds are kept to a safe limit giving the driver enough time to make an emergency stop (i.e. drive to the conditions, not to the speed limit of the road, and keep your distance from the vehicle in front of you using the 2-3 second rule).</li> </ul>	
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								<ul style="list-style-type: none"> <li>• Drivers are to drive a safe distance away from the roads edge to avoid the vehicle losing control (Includes no Yellow Line Driving).</li> <li>• If visibility is impaired your headlights must be on to see and to be seen.</li> <li>• Vehicles must have Warning Triangles and reflective vests in the event of a breakdown.</li> <li>• All Vehicles and Plant must be regularly serviced and in good working order.</li> <li>• Inspection Records must be kept for all vehicles and plant.</li> <li>• Drivers and Operator must have a valid Medical Certificate of Fitness as conducted by an occupational medical practitioner (including a completed and Annexure 3 form).</li> <li>• No drivers/Operators to be under the influence of alcohol or drugs of any kind.</li> <li>• Rotating Orange Flashing Light to be on all vehicles and must be in good working order.</li> <li>• “Construction Vehicle” Sign to be placed on rear of vehicle.</li> <li>• Site Office fenced area to be the last item to be removed from site to ensure site is still secure during de-establishment, sign posts with Mandatory PPE signage, contact details and “no Unauthorised entry signage” to remain as well. Access is to be controlled by Security to safe guard the site camp and to ensure no unauthorised entry into site camp area during de-establishment.</li> <li>• Refuelling area must comply with EIA and ROD requirements. Area to be bunded</li> </ul>	
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								<p>with 110% capacity, sumps built in, spill kits available, fire extinguishers available, correct signage, etc.</p> <ul style="list-style-type: none"> <li>•Smoking Areas must be set up in demarcated areas with signage, sand filled bucket/drum and a fire extinguisher.</li> <li>•Fire Extinguishers/ fire-fighting equipment (such as water carts) must be available on site in sufficient quantity.</li> <li>•Fire Marshals must be appointed and emergency procedures to deal with Fires and other emergencies to be communicated to all staff.</li> <li>• A Safe Work Procedure dealing with Lightning must be developed by the contractors dealing with the 30-30 Rule, what must be done, when work must be stopped, first aid, etc.</li> <li>•During Hot periods, regular breaks must be taken. Drinking water must be made available on site close to work areas. Sun block lotion must be provided and applied to exposed skin, long sleeve overalls to be worn and brim hats fitted to hard hats made available.</li> <li>•Resting and eating areas must be provided near at site camp area.</li> <li>•Hygiene must be at the heart of the contractor's safety awareness campaigns. Washing hands with soap and water, using gloves, not eating or drinking in work areas, etc. A Hygiene policy and plan must be drafted and communicated to all workers. It must be maintained and implemented with daily focus on it.</li> <li>•Provide PPE: Safety Boots/Shoes, Hard Hat, Dust Mask, Eye Protection, Reflective</li> </ul>	
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