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**BASELINE RISK ASSESSMENTS FOR THE CONSTRUCTION OF  
TEMPORARY DECANTING CLASSROOMS AT MAKAULA SSS  
FOR THE EASTERN CAPE DEPARTMENT OF EDUCATION**

**RFP277/2023**

<b>BASELINE RISK ASSESSMENT</b>	Reference Number	
	Implementation Date	
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<b>BRIEF DESCRIPTION OF WORK / ACTIVITY :Makaula SSS- Construction of Classroom Blocks and Additional Hostel Accommodation</b>							
RA Reference No.	BR/A001	RA Submission Date	28 January 2017	COMPANY :	Kimopax Pty Ltd	SD Approval Date	
RA Revision	REV 005	RA Revision Date		LOCATION :			
RISK ASSESSMENT TEAM		TITLE / APPOINTMENT		SIGNATURE		COMMENTS	
Initials & Surname							
Lesiba Ramatladi, Siyanda Mtshakasi, Shaun Norris		Client's Safety Managers,CHSO's,CHSA's					

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1	<b>DELIVERY OF EQUIPMENT / MATERIAL</b>	<ul style="list-style-type: none"> <li>Interaction with other vehicles and school people</li> </ul>	<ul style="list-style-type: none"> <li>Vehicle Accidents</li> <li>Property Damage</li> <li>Physical Injuries</li> <li>Partial or permanent disability</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Designated delivery areas to be restricted to only delivery vehicles and offloading workforce.</li> <li>Training to be provided to drivers and Flagman/ Spotter in the form of DSTI's for an effective communication system.</li> <li>Emphasis to be put on the segregation of pedestrians, light vehicles and heavy mobile equipment through tool box talks and DSTI's, this will help to achieve optimum results from the system.</li> <li>Vehicles will not be allowed to depart from loading zone with an unsecure load, this will be ensured by the supervisor that</li> </ul>	4	2	14	16(2) Appointee	

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							<ul style="list-style-type: none"> <li>is supervising the activity.</li> <li>Delivery arrangements to be communicated to supervisor so that proper procedures maybe followed and delivery areas prepared for delivery.</li> <li>Task specific safe work procedures and DSTI's to be communicated to all employees assisting with deliveries to reinforce the existing controls.</li> </ul>					
		<ul style="list-style-type: none"> <li>Driver not certified / competent / appointed</li> </ul>	<ul style="list-style-type: none"> <li>Vehicle Accidents / Possible collisions</li> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Drivers to produce proof competency with ID copies and proof of medical fitness upon arrival.</li> </ul>	4	2	14	16(2) Appointee	
		<ul style="list-style-type: none"> <li>Sub-standard vehicles / not inspected</li> </ul>	<ul style="list-style-type: none"> <li>Vehicle Accidents / Possible collisions</li> <li>Property Damage</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Formal communication to be made to dedicated suppliers on inspections and records.</li> </ul>	4	2	14	16(2)	

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			<ul style="list-style-type: none"> <li>Physical Injuries</li> <li>Fatality</li> </ul>				<ul style="list-style-type: none"> <li>Safety Practitioner to ensure measures are in place to communicate all relevant requirements to dedicated suppliers.</li> <li>All deliveries shall be made on appointment and arrangements to be made in advance.</li> <li>Task specific risk assessments, safe work procedures to be communicated to concerned employees.</li> </ul>				Appointee	
		<ul style="list-style-type: none"> <li>Load not properly secured / overloaded</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Suppliers to be warned of overloading and careless loading as this will not be accepted onsite.</li> <li>Supervisor to be present and</li> </ul>	4	2	14	16(2) Appointee	

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							supervising offloading. Activity.					
		<ul style="list-style-type: none"> <li>Man-machine interface</li> </ul>	<ul style="list-style-type: none"> <li>Vehicle Accidents / Possible collisions</li> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Forewarning or formal communication to be made to all delivery personnel and dedicated suppliers.</li> </ul>	4	2	14	16(2) Appointee	
		<ul style="list-style-type: none"> <li>Unsecured Area</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Only approved netting (orange snow netting) shall be used for barricading to identify potential hazards or to control/restrict access due to hazardous operations or activities.</li> <li>All barriers shall have a</li> </ul>	4	2	14	16(2) Appointee	

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							barricade tag attached at all designated accesses points if applicable. • No persons shall be allowed in the delivery zones which will be ensured by communication through inductions and toolbox talks.					
		• Unauthorised personnel in area	• Property Damage • Physical Injuries • Fatality	4	3	18	• Drivers and delivery personnel to undergo site induction upon arrival. • Daily inspections to be done to ensure DSTI's are completed and signed by all and kept on record.	4	2	14	16(2) Appointee	
		• Inadequate communication between Operator / Flagman	• Vehicle Accidents / Possible collisions • Property Damage • Physical Injuries • Fatality	4	3	18	• Employees involved to be trained on the system and follow up to be done through toolbox talks and DSTI's.	4	2	14	16(2) Appointee	

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		<ul style="list-style-type: none"> <li>Area not inspected</li> </ul>	<ul style="list-style-type: none"> <li>Vehicle Accidents / Possible collisions</li> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Safety practitioner to suspend any activity carried out without completion of DSTI's.</li> </ul>	4	2	14	16(2) Appointee	
2	<b>OFF LOADING OF EQUIPMENT / MATERIAL BY MEANS OF MANUAL HANDLING</b>	Pinching / scratching	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	3	3	13	<ul style="list-style-type: none"> <li>PPE Survey to be conducted and issue adequate and relevant PPE and make sure that employees sign for the PPE Issued, records to be kept on record.</li> <li>Inspections on all equipment should mechanical aid be utilised.</li> <li>Supervisors to ensure use / enforce use of proper and complete PPE.</li> </ul>	3	2	9	16(2) Appointee	



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							<ul style="list-style-type: none"> <li>Risk assessments to be communicated together with DSTI's to all employees. Supervisor to ensure the load size is known to employees and does not exceed 1/3 of an employee's body weight.</li> </ul>					
		Back injuries	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	3	3	13	<ul style="list-style-type: none"> <li>DSTI's to be done before activities commence. Tool box talks to be communicated to all employees involved and supervisor to be present.</li> <li>Safe lifting procedures to be followed and safe work procedures to be communicated to all employees.</li> </ul>	3	2	9	16(2) Appointee	
3	<b>STACKING AND</b>	Sub-standard / unsafe stacking	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Designated areas for stacking to be identified and stacking and storage supervisor to</li> </ul>	4	2	14	16(2)	

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	STORAGE	practices					monitor. • Training to be provided on stacking and storage in through toolbox talks and DSTI's. • Inspections to be carried out and unsafe equipment to be removed from the premises. • Stacking and storage supervisor to monitor and enforce safe stacking procedures. • Good housekeeping to be ensured through daily inspections which will be conducted twice a day. • DSTI's to be conducted by supervisor and proof of communication to be kept on record.				Appointee	

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							<ul style="list-style-type: none"> <li>After stacks are completed an inspection should be carried out to ensure stacking and storage procedures are followed.</li> <li>Toolbox talks to be done and all employees to attend and records to be kept.</li> <li>Observe correct lifting technique i.e. use legs and not back for lifting operations. Observe safe stacking practices i.e. even stacks, max height 3 X shortest base (stacking supervisor). Deliveries are to be supervised by site supervisor. Continually monitor the erection and dismantling of stacks (stacking supervisor). Required PPE:</li> </ul>					

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							Overalls, safety shoes, hard hat, leather gloves and glasses.					
		Insufficient / incorrect dunnage	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Supervisor to ensure proper stacking methods and material is used.</li> <li>Employees to be trained in safe stacking practices. Dunnage to</li> </ul>	4	2	14	16(2) Appointee	

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							be used to support loads.					
		Sub-standard Housekeeping practices	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Stacking and storage supervisor to do daily inspections.</li> <li>Daily housekeeping inspections to be done.</li> </ul>	4	2	14	16(2) Appointee	
4.	<b>ELECTRICAL EQUIPMENT (LEADS / PORTABLE ELECTRICAL TOOLS)</b>	Electrical fire	<ul style="list-style-type: none"> <li>Fire</li> <li>Burns</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Correct signage's to be displayed that power tool are in use.</li> <li>Housekeeping checklist to be done daily to check for any water in the area that will be reported to the Client's site management / supervisor immediately.</li> <li>PTOs to be conducted by Management / Supervisor and Safety officer.</li> <li>All DSTI and risk assessments</li> </ul>	4	2	14	16(2) Appointee	

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							<p>and SWP to be communicated to all workers proof to be kept in Safety file.</p> <ul style="list-style-type: none"> <li>Appointed Portable electrical tool inspector will do daily check register and proof will be kept on record. Any deviations on the check list will be reported to Client's management / Supervisors to be actioned</li> <li>PPE analyses will be checked to confirm correct PPE to be used by workers on site.</li> <li>All workers will be trained on PPE use through tool box talks and site specific Induction.</li> </ul>					

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		Electrical energy / Faulty Equipment	<ul style="list-style-type: none"> <li>• Damage to equipment</li> <li>• Physical Injuries</li> <li>• Electrocutation</li> <li>• Burns</li> <li>• Superficial burns</li> <li>• Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>• All mains that power portable electrical equipment operating above extra low voltage shall be protected by a Residual Current Devices RCD.</li> <li>• Portable Electrical Equipment shall be double insulated, registered on the contractors equipment register and tagged showing the date of the last inspection. RCD's shall be numbered and registered. The frequency of inspection shall be monthly.</li> <li>• Faulty Portable Electrical Equipment shall be withdrawn from service immediately when it is regarded faulty or doubtful, or the equipment has failed the inspection or testing, approved</li> </ul>	4	2	14	16(2) Appointee	

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							tag has expired and there is no approval tag on the equipment (quarantine area). <ul style="list-style-type: none"> <li>• Make provision for numbering portable electrical equipment to correspond to the numbers on register</li> <li>• Electrical Tools to be protected by earth leakage</li> <li>• All extension cords, portable tools and electrical plan supplied at a voltage above 32 volts are inspected, tested and tagged by a licensed and appointed Electrician at regular monthly intervals. Details of inspections and tests shall be kept in logbooks available for inspection by the Project Management Representative or any other</li> </ul>					



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							authorised officer of Project Management. • Electrical Extension leads will not be permitted to run across or be placed where possible across walkways or floor where people are working. • Electrical Cables / hoses and electrical leads must be suspended and routed orderly at least 2m above walkways and working areas. • Test for "Zero Energy" in any situation where unexpected motion of equipment undergoing repair, installation etc. Could result in an accident or injury. • Implement Safe Operating Procedure • Portable Electrical Equipment					

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							shall not be used on site unless it is registered and has a current approval tag. Hand-held mains powered portable tools shall be the double insulated type. <ul style="list-style-type: none"> <li>All contractors and hired portable electrical equipment shall be tested, inspected and tagged by the contractor or the hiring company before being brought on site. The project shall not be responsible for the testing, inspection and tagging of this equipment.</li> </ul>					
		Rotating parts on Portable	<ul style="list-style-type: none"> <li>Physical Injuries</li> <li>Fatality</li> <li>Electrocution</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Safe and proper storage procedures to be followed for the storage of all tools and</li> </ul>	4	2	14	16(2)	

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		Electrical Tools	<ul style="list-style-type: none"> <li>Damage to equipment</li> </ul>				equipment. <ul style="list-style-type: none"> <li>Daily pre-start inspections of equipment to be conducted by an appointed, competent person.</li> <li>Utilise correct PPE as per PPE needs analysis.</li> <li>Only competent and authorised personnel to utilise electrical tools / electrical equipment.</li> <li>PPE inspected daily</li> <li>Portable electrical equipment shall be adequately guarded and maintained in a good state of repair</li> </ul>				Appointee	

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		<ul style="list-style-type: none"> <li>Sub-standard Portable Electrical Equipment</li> </ul>	<ul style="list-style-type: none"> <li>Damage to equipment</li> <li>Physical Injury</li> <li>Electrocution</li> <li>Burns</li> <li>Superficial burns</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Only competent , trained and certified employees will be allowed to utilise electrical equipment as well as repair and maintain the portable electrical equipment</li> <li>All portable electrical equipment will be identified individually and a maintenance plan will be followed and implemented</li> <li>All electrical equipment supplied to site to must be fit for purpose with regards to voltage, power and electrical environment conditions</li> <li>All unsafe electrical equipment to be switched off and reported to management or supervisor immediately.</li> </ul>	4	2	14	16(2) Appointee	

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							<ul style="list-style-type: none"> <li>Visual inspections will be carried out before work commences.</li> <li>Electrical Leads and electrical extension cables will be routed so as to minimise the likelihood of damage and trip hazards.</li> <li>No work shall commence without an appointed electrical supervisor.</li> <li>Operators will be trained in the procedures and safe use of portable electrical equipment.</li> </ul>					
5.	<b>USE OF HANDTOOLS</b>	<ul style="list-style-type: none"> <li>Sub-standard hand tools utilised</li> </ul>	<ul style="list-style-type: none"> <li>Damage to property</li> <li>Physical Injuries</li> </ul>	3	3	13	<ul style="list-style-type: none"> <li>Daily tool inspection to be carried out by an appointed competent person and records submitted to the SD</li> </ul>	3	2	9	16(2) Appointee	

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							<p>Department for record keeping. If any deviations are noted, tools must be repaired or replaced.</p> <ul style="list-style-type: none"> <li>Supervisors to conduct PTO's on different activities to ensure task are executed properly and safe.</li> <li>Tools found with serious defects during daily inspections to be removed from the premises immediately.</li> <li>Only competent employees to be allowed to use tools with</li> </ul>					

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							sharp blades <ul style="list-style-type: none"> <li>DSTI's to be done for every activity as per Client's standards and employees to be trained in safe work procedures.</li> <li>Toolbox talks must be conducted on task specific topics.</li> <li>Tools must not be allowed to deteriorate to an extent of mushroom heads in case of chisels and exposed tags for hammers; this can be ensured by daily inspections and reporting of unsafe tools to supervisors.</li> <li>Safe work procedures to be developed and communicated as a follow up on the crafts</li> </ul>					

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							<p>training and induction to ensure safe use of tools and encourage employees to inspect their own tools and report any defects.</p> <ul style="list-style-type: none"> <li>Ensure employees understand their basic duties as stipulated in the OHS Act 85 of 1993.</li> </ul>					



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6.	<b>EXCAVATIONS</b>	No Excavation Permit	<ul style="list-style-type: none"> <li>Accidents</li> <li>Injuries</li> <li>Property damage</li> </ul>	2	2	5	<ul style="list-style-type: none"> <li>Relevant issue based risk assessments shall be completed and submitted for permits application well in advance.</li> <li>No work shall be carried out without relevant work permit.</li> </ul>	2	1	3	16(2) Appointee	
		Sub-Standard Barricading	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Client's barricading standards must be complied with. Inspections on all well barricaded excavations shall be done twice a day and any noted deviations rectified immediately. Manager, supervisor and Safety Practitioner to perform deviation recording on a daily basis.</li> </ul>	4	2	14	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							<ul style="list-style-type: none"> <li>Supervisor and Safety practitioner to ensure that safety equipment like barricading is not misused by employees. Barricading shall not be removed by any employee unless instructed or under the supervision of management.</li> </ul>					
		Sub-Standard Notices / Signs	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Excavation supervisor to ensure relevant signs are correctly positioned all the time and Safety practitioner to inspect and report any deviations.</li> </ul>	4	2	14	16(2) Appointee	
		Slip / Trip and Fall	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>DSTI's to be done after a physical inspection has been conducted in areas where activities will take place. Whenever necessary Risk assessments will be reviewed and</li> </ul>	4	2	14	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							re-communicated to the employees.					
		Sub-Standard Access and Egress	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Regular inspections to be carried out on all excavation access ladders and no one to be allowed to access excavations by any other means.</li> </ul>	4	2	14	16(2) Appointee	
		Underground Services	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Plans and permits to be obtained from the client indicating where there are underground services. Where services are identified, ensure marking is done by a competent client representative before commencing excavation activities.</li> <li>Supervisor to ensure adherence to the laid down excavation</li> </ul>	4	2	14	<b>16(2) Appointee</b>	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							procedures. Where there are existing services employees must exercise caution during excavations.					

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							<ul style="list-style-type: none"> <li>Competent and qualified professionals to be engaged in using detection equipment to identify service locations.</li> <li>Digging by hand in service areas to be done by competent personnel with excavation supervisor present.</li> </ul>					
		Excavation collapse	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Excavation work will not be carried without the supervision of a competent person who is appointed in writing.</li> <li>Supervisor to inspect and ensure there is no material or people inside excavations before</li> </ul>	4	2	14	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							backfilling can be done. • All shoring and bracing to be done by a competent person and inspected before any person can be allowed to work in any excavation. • Toolbox talks and DSTI's to be given to all employees working in excavations. • 5 m rule must be observed at all times and walking on edges of excavations must be avoided. • Inspections to be done twice a day on all site activities by Safety Practitioner and any deviations to be rectified immediately. After inclement weather excavations must be inspected before employees can be allowed to carry out any work.					

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							<ul style="list-style-type: none"> <li>Supervisor to ensure good housekeeping is maintained onsite and no material shall be removed inside excavations.</li> </ul>					
7.	<b>Steel fixing</b>	<ul style="list-style-type: none"> <li>Inspections and hazard identification not conducted prior to work commencement</li> </ul>	<ul style="list-style-type: none"> <li>Damage to property</li> <li>Damage to equipment</li> <li>Physical Injuries</li> </ul>	3	3	13	<ul style="list-style-type: none"> <li>Risk assessments to be done and communicated to all employees.</li> <li>Good communication between all team members and supervisor to be upheld at all times</li> <li>No work to commence without the presence of a competent and appointed supervisor.</li> <li>Safe Operating Procedures / Safe Working Procedures to be communicated and supervisor to ensure implementation.</li> <li>Ensure good housekeeping is maintained to prevent trips and</li> </ul>	3	2	9	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							falls.					
		Working without proper PPE	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	3	3	13	<ul style="list-style-type: none"> <li>PPE survey to be conducted and necessary PPE issued to all employees. Employees must sign for PPE and the records shall be kept on record.</li> <li>Supervisor to ensure PPE is utilised and not misused by employees.</li> <li>No employee to be allowed to carry out any activity without the relevant PPE.</li> <li>All defects on tools to be rectified by either repair or replacement.</li> <li>Daily tool inspections to be carried out by an appointed competent person and records submitted to the Safety Department. All unsafe tools to be repaired or replaced.</li> </ul>	3	2	9	<b>16(2) Appointee</b>	



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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							•Supervisor to conduct PTO's on the task, monitor and enforce safe use of tools.					
		Use of incorrect tools /defects on tools/ no tools	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	3	3	13	Supervisor to ensure correct tools are issued and used by trained employees. Tool inspections to be done before shift commences and after the shift.  All defects on tools to be rectified by either repair or replacement. . Daily tool inspection to be carried out by an appointed competent person and records submitted to	3	2	9	<b>16(2) Appointee</b>	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							the Safety Department. If any defects are noted tools to be repaired or replaced. Supervisor to conduct PTOs on the task, monitor and enforce safe work procedures.					
		Laying Steel manually without correct PPE	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	3	3	13	<ul style="list-style-type: none"> <li>PPE survey to be done and correct PPE issued to employees. Employees to sign for PPE and inspections on PPE to be carried out before and after the task.</li> <li>Supervisor to conduct PTOs, monitor and initiate re-training if necessary.</li> <li>No task is to commence without DSTI and relevant Risk Assessments being communicated to employees.</li> </ul>	3	2	9	<b>16(2) Appointee</b>	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
		Laying Steel in 600mm deep excavated foundation	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injury</li> </ul>	3	3	13	<ul style="list-style-type: none"> <li>No work to be done without proper PPE.</li> <li>Site specific inductions to be done when workers start on site</li> <li>Employees to be issued with correct type of hand gloves for the task and inspections done on all PPE before and after work.</li> </ul> DSTI's and safe work procedures to be carried out with all the employees involved in the task. Proof of communication of	3	2	9	<b>16(2) Appointee</b>	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							hazards and risk must be available in records. <ul style="list-style-type: none"> <li>• Communication of safe lifting procedures to be done before commencement of task.</li> <li>• Safe Working Practice (SWP) to be communicated before task commences</li> <li>• PTO to be conducted every day by supervisor and records to be kept on record</li> <li>• DSTI's, safe work procedures, Risk assessments and toolbox talks to be communicated to the employees signed and records kept.</li> <li>• Task to be performed under supervision. Housekeeping to be ensured, no tools or material to</li> </ul>					

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							be removed inside foundations as this could cause trips and falls resulting in injuries.					
		<ul style="list-style-type: none"> <li>Slip / Trip and Fall</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Implement the DSTIs as per the DSTI procedure.</li> <li>Ensure the Risk Assessment is developed for the task and communicated to all employees.</li> </ul>	4	2	14	16(2) Appointee	
		<ul style="list-style-type: none"> <li>Sub-Standard Access and Egress</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Ensure convenient and safe means of access to every excavation in which persons are required to work and such access shall not be further than 6m from the point where any worker within the excavation is working</li> </ul>	4	2	14	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
		<ul style="list-style-type: none"> <li>Pinching / scratching</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	3	3	13	<ul style="list-style-type: none"> <li>Proper and adequate PPE to be utilised as identified in the PPE needs analysis</li> <li>Utilise mechanical aid where possible</li> <li>Risk Assessments must be conducted on manual handling tasks.</li> <li>Conduct a DSTI</li> </ul>	3	2	9	16(2) Appointee	
8.	<b>EARTHWORKS AND CIVIL CONSTRUCTION WORK</b>	Employees not competent to perform Manual Excavation and allocated duties	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>(SWP) Safe working procedures and Risk Assessments to be conducted and communicated to all employees.</li> <li>Client's skills transfer form to be done by supervisor and copy's to</li> </ul>	4	2	14	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							be available on request  • Task specific Inductions and tool box talks to be given to relevant groups.  • PTOs must be conducted by a competent person and initiate training for the employees.					
		<ul style="list-style-type: none"> <li>Sub-Standard Access and Egress</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Ensure convenient and safe means of access to every excavation in which persons are required to work and such access shall not be further than 6m from the point where any worker within the excavation is working.</li> </ul>	4	2	14	16(2) Appointee	



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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
		<ul style="list-style-type: none"> <li>Pinching / scratching</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	3	3	13	<ul style="list-style-type: none"> <li>Proper and adequate PPE to be utilised as identified in the PPE needs analysis</li> <li>Utilise mechanical aid where possible</li> <li>Risk Assessments shall be conducted on manual handling tasks</li> <li>Conduct a DSTI as per the Specifications</li> </ul>	3	2	9	16(2) Appointee	
		<ul style="list-style-type: none"> <li>Slip / Trip and Fall</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Implement the DSTIs</li> <li>Ensure Risk Assessments are developed for the task and communicated to all employees.</li> </ul>	4	2	14	16(2) Appointee	
9.	<b>Concrete Discharge work</b>	Employees not competent to perform Manual discharge of concrete into small (500mm)	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>SWP Safe working procedures and risk assessments must be conducted with all the employees involved in the task before the</li> </ul>	4	2	14	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
		excavated foundations.					commencement of the task. PTOs (Plan Task Observations) to be conducted and training initiated for the poor performers.					
		<ul style="list-style-type: none"> <li>Slip / Trip and Fall</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Implement the DSTI process as per the DSTI procedure</li> <li>Ensure the Risk Assessment is developed for the tasks associated.</li> </ul>	4	2	14	16(2) Appointee	
		<ul style="list-style-type: none"> <li>Inspections and hazard identification not conducted prior to work commencement</li> </ul>	<ul style="list-style-type: none"> <li>Damage to property</li> <li>Damage to equipment</li> <li>Physical Injuries</li> </ul>	3	3	13	<ul style="list-style-type: none"> <li>A Spotter / Brakeman with a whistle to be utilised in order to suspended the cable pullers in time if needed</li> <li>Good communication between all team members and team members and supervisor / spotter / brakeman to be upheld</li> </ul>	3	2	9	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							at all times <ul style="list-style-type: none"> <li>Over stressing of the cable to be prevented by close supervision and monitoring of all work</li> <li>Cable pulls will be smooth and maintained at a reasonable rate to ensure control and tension requirements are met</li> <li>No work to commence without proper, appointed supervision</li> <li>Safe Operating Procedures / Safe Working Procedures to be implemented and rolled-out</li> </ul>					
		Employees working with or inside concrete not wearing	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	3	3	13	<ul style="list-style-type: none"> <li>PPE survey to be done and correct PPE issued to employees. Employees to sign for PPE and inspections on PPE to be carried</li> </ul>	3	2	9	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
		correct PPE					out before and after work. • Supervisor to ensure correct tools are issued and used by employees. Tool inspections to be done before commences and after work. • Supervisors to conduct PTO's on the activity and monitor the use of tools • Task specific induction on PPE use must be conducted • Issue based risk assessments to be communicated • SWP to be conducted and communicated.					
		Sub-standard Tools And Equipment	• Property Damage • Physical Injuries	4	3	18	• Only competent and authorised personnel to utilise tools / equipment • Tools and equipment inspected daily / prior to use and in accordance to SANS requirement	4	2	14	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							standards By the Appointed hand tool inspector <ul style="list-style-type: none"> <li>Task specific Inductions to be conducted on all worker forming part of the task</li> <li>All defects on tools to be rectified by either repair or replacement. .</li> <li>Daily tool inspection to be carried out by an appointed competent person and records submitted to be kept on site.</li> </ul>					
		<ul style="list-style-type: none"> <li>Sub-Standard Access and Egress</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Ensure convenient and safe means of access to every excavation in which persons are required to work and such access shall not be further than 6m from the point where any worker within the excavation is working</li> </ul>	4	2	14	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
		<ul style="list-style-type: none"> <li>Pinching / scratching</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	3	3	13	<ul style="list-style-type: none"> <li>Proper and adequate PPE to be utilised as identified in the PPE needs analysis</li> <li>Utilise mechanical aid where possible</li> <li>Risk Assessments shall be conducted on manual handling tasks</li> <li>Conduct a DSTI</li> </ul>	3	2	9	16(2) Appointee	
10.	<b>Brick work and Plastering</b>	Employees not competent to perform brickwork and plastering and allocated duties	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injury</li> </ul>	3	3	13	<ul style="list-style-type: none"> <li>Risk Assessment communicated to all team members</li> <li>Task specific Inductions to be conducted.</li> <li>SWP Safe working procedures and Risk assessments to be conducted. PTO (Plan Task Observations) to be conducted by</li> </ul>	3	2	9	16.2 Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							supervisor and re-induction or training given to poor performers.					
		Employees working with Plaster and bricks without correct PPE	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	3	3	13	<ul style="list-style-type: none"> <li>PPE survey to be done and correct PPE issued to employees. Employees to sign for PPE and inspections on PPE to be carried out before and after work.</li> <li>Supervisors to conduct PTO's on the activity and monitor the use of tools</li> <li>Task specific induction on PPE use must be conducted</li> <li>Issue based risk assessments to be communicated</li> <li>SWP to be implemented and communicated</li> </ul>	3	2	9	16(2) Appointee	
		Sub-standard Tools And	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Supervisor to ensure only competent and authorised personnel utilise tools /</li> </ul>	4	2	14	16(2)	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
		Equipment					equipment. • Tools and equipment inspected daily / prior to use and in accordance to SANS requirement standards by an appointed hand tool inspector. • Supervisor to ensure correct tools are issued and enforce the correct use of tools. • All unsafe tools to be repaired or replaced.				Appointee	
		• Sub-Standard Access and Egress	• Property Damage • Physical Injuries	4	3	18	• Ensure convenient and safe means of access to every excavation in which persons are required to work and such access	4	2	14	16(2) Appointee	



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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							shall not be further than 6m from the point where any worker within the excavation is working					
		<ul style="list-style-type: none"> <li>Pinching / scratching</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	3	3	13	<ul style="list-style-type: none"> <li>Proper and adequate PPE to be utilised as identified in the PPE needs analysis</li> <li>Utilise mechanical aid where possible</li> <li>Risk Assessments shall be conducted on manual handling tasks</li> <li>Conduct a DSTI</li> </ul>	3	2	9	16(2) Appointee	
		<ul style="list-style-type: none"> <li>Slip / Trip and Fall</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Implement the DSTI process as per the DSTI procedure</li> <li>Ensure the Risk Assessment is developed for the tasks associated.</li> </ul>	4	2	14	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							<ul style="list-style-type: none"> <li>Supervisor must enforce good housekeeping.</li> </ul>					
		Environmental Contamination/impact	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	3	3	13	<ul style="list-style-type: none"> <li>Environmental plan to be discussed with all site management / supervisors.</li> <li>Site specific inductions on environmental issues to be communicated to all employees.</li> <li>Supervisor to ensure waste disposal procedures are adhered to.</li> <li>Different colour skips must be provided for disposal of waste.</li> <li>Solid waste to be separated from liquids.</li> <li>Hazardous waste to be separated from non-hazardous waste.</li> </ul>	3	2	9	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
11.	<b>Form and support work</b>	Employees working with Form and support work material not wearing correct PPE	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	3	3	13	<ul style="list-style-type: none"> <li>PPE survey to be done and correct PPE issued to employees. Employees to sign for PPE and inspections on PPE to be carried out before and after work.</li> <li>Supervisors to conduct PTO's on the activity and monitor the use of tools</li> <li>Task specific induction on PPE use must be conducted</li> <li>Issue based risk assessments to be communicated</li> <li>SWP to be implemented and communicated</li> </ul>	3	2	9	16(2) Appointee	
		Sub-standard Tools And Form and support work Equipment	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Only competent and authorised personnel to utilise tools / equipment</li> </ul>	4	2	14	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							<ul style="list-style-type: none"> <li>Tools and equipment inspected daily / prior to use and in accordance to SANS requirement standards by an appointed hand tool inspector</li> <li>Supervisor to ensure correct tools are issued and used by competent, trained employees.</li> <li>All defects on tools and formwork equipment to be rectified by either repair or replacement. .</li> <li>Daily tool inspection and form and support equipment to be carried out by an appointed competent person and records kept on site. All defects to be reported and rectified. Unsafe tools must be repaired or replaced.</li> </ul>					

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							<ul style="list-style-type: none"> <li>Supervisors to conduct PTO's on the activity monitor and enforce safe use of tools where necessary poor performers must be re-inducted or trained.</li> </ul>					
		<ul style="list-style-type: none"> <li>Slip / Trip and Fall</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Implement the DSTIs</li> <li>Ensure Risk Assessments and safe work procedures are communicated to all employees involved in the task.</li> </ul>	4	2	14	16(2) Appointee	
		Employees not competent to perform allocated duties	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injury</li> <li>fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Risk Assessments and safe work procedures to be communicated to all employees.</li> <li>PTO (Plan Task Observations) to be conducted and poor performers to be re-inducted or trained in the execution of task.</li> </ul>	4	3	14	16(2) appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							<ul style="list-style-type: none"> <li>Correct PPE to be used PPE survey to be done.</li> <li>Incompetent employees must not be allowed to carry out activities.</li> </ul>					
		<ul style="list-style-type: none"> <li>Inspections and hazard identification not conducted prior to work commencement</li> </ul>	<ul style="list-style-type: none"> <li>Damage to property</li> <li>Damage to equipment</li> <li>Physical Injuries</li> </ul>	3	3	13	<ul style="list-style-type: none"> <li>Employees must sign the acknowledgement form in acceptance of the communicated risk assessments and safe work procedures.</li> <li>Adequate PPE to be utilised for the activity.</li> <li>Edge protection to be installed</li> <li>Employees must be encouraged to report any hazardous situations as soon as reasonable practicable.</li> </ul>	3	2	9	16.2 Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
12.	<b>WORKING AT HEIGHTS / WORKING ON SCAFFOLDING / ROOF WORK</b>	<ul style="list-style-type: none"> <li>Inability to identify hazards associated with work in elevated positions</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Unmarked scaffold will not be allowed onsite,</li> <li>Project specific Fall Protection plan to be communicated to all employees.</li> <li>Safety Officer to control inspections and SWP</li> <li>Fall relief procedure to be communicated to all managers and workers working at heights.</li> <li>Registers to be kept on record as proof of communication.</li> <li>Emergency drills to be done periodically.</li> <li>A buddy system to be utilised, employees to work in pairs or groups.</li> </ul>	4	2	14	16(2) appointee	
		<ul style="list-style-type: none"> <li>Falling Objects</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Stacks to be inspected twice a day by the Safety Practitioner and findings to be noted with</li> </ul>	4	2	14	16(2)	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
			<ul style="list-style-type: none"> <li>Fatality</li> </ul>				deviations corrected immediately.				Appointee	
		<ul style="list-style-type: none"> <li>Inadequate "Working at heights" training</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Training in the use of Safety harnesses and inspection to be given to all employees performing tasks at heights. Fall Protection Plan to be communicated and records kept in file.</li> </ul>	4	2	14	16(2) Appointee	
		<ul style="list-style-type: none"> <li>Sub-Standard Housekeeping practices</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	3	3	13	<ul style="list-style-type: none"> <li>Site inspections shall be conducted twice a day as per client specifications for the project</li> <li>Waste management plan to be communicated to all and adherence to be ensured.</li> <li>Safety Practitioner to inspect and ensure waste bins meet waste</li> </ul>	3	2	9	16(2) Appointee	



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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							management standards as stipulated in the plan. • Waste management plan to be communicated to all employees.					
		• Sub-Standard Scaffolding	• Property Damage • Physical Injuries • Fatality	4	3	18	• Implementation of designed systems to be ensured through communication of toolbox talks and DSTI's. • Scaffold supervisor to ensure scaffolding is designed according to scaffolding specifications. • Fall Protection Plan to be communicated to all employees working at heights.	4	2	14	16(2) Appointee	
		• Workers not trained / familiar with Emergency Response Plan	• Property Damage • Physical Injuries • Fatality	4	3	18	• Emergency procedures and drills must be communicated to all new employees and re - communication and periodical drills conducted from time to time with records kept in file.	4	2	14	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
		<ul style="list-style-type: none"> <li>Overhead work</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>No overhead work to be done on site.</li> </ul>	4	2	14	16(2) Appointee	
		<ul style="list-style-type: none"> <li>Unsecured Area</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Demarcated areas shall not be accessed by unauthorized employees.</li> </ul>	4	2	14	16(2) Appointee	
		<ul style="list-style-type: none"> <li>Unauthorised personnel in area</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Supervisor to ensure all employees attend DSTIs and sign the acknowledgement form.</li> <li>Unauthorised areas shall only be entered under supervision /under the instruction of a supervisor/manager.</li> </ul>	4	2	14	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
		<ul style="list-style-type: none"> <li>Fall Protection Plan not implemented / understood</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Employees to sign in acceptance of Fall Protection Plan and proof kept in file.</li> <li>Records to be kept each time drills are conducted.</li> <li>Mistakes made during drills may indicate the need for re-training/re-communication.</li> </ul>	4	2	14	16(2) Appointee	
		<ul style="list-style-type: none"> <li>Sub-Standard PPE utilised</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Proof of PPE issue to be kept in file and inspections to be conducted.</li> </ul>	4	2	14	16(2) Appointee	
		<ul style="list-style-type: none"> <li>Permits not available</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Pre-planning to be done for risk assessments to be completed and permits obtained for specific activities.</li> </ul>	4	2	14	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
		<ul style="list-style-type: none"> <li>Insufficient Supervision</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Maximum supervision to be ensured at all times. Permits to be obtained well in advance.</li> </ul>	4	2	14	16(2) Appointee	
		<ul style="list-style-type: none"> <li>Sub-Standard Working Platforms</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Competent person to erect and inspections to be done to ensure platforms are safe.</li> </ul>	4	2	14	16(2) Appointee	
		<ul style="list-style-type: none"> <li>Life-lines not erected / not erected to standard</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Where lifelines will be used an approved service provider to be appointed and to ensure inspections are done on all equipment by a competent person.</li> <li>All certificates for the ropes and life lines to be available.</li> </ul>	4	2	14	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
		<ul style="list-style-type: none"> <li>Psychological questionnaire not completed for all employees working at heights</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>All employees to undergo medical fitness examination before coming on site.</li> <li>Medically unfit employees will not be allowed to work at heights.</li> <li>All employees to complete the medical questionnaire before they can be allowed to work at heights.</li> </ul>	4	2	14	16(2) Appointee	
		<ul style="list-style-type: none"> <li>Unsafe Access and Egress / sub-standard ladders</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Competent scaffolding inspector to ensure safe scaffolding is erected as per the specifications.</li> <li>Inspections to be done twice per day and deviations corrected immediately.</li> <li>Ladder inspector to be appointed and ensure all defects are recorded and corrected immediately</li> </ul>	4	2	14	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
13.	<b>USE OF LADDERS / STEP LADDERS</b>	<ul style="list-style-type: none"> <li>Sub-standard ladders / step ladders</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Ladders must be stored in a dry environment inside the store</li> <li>Ladders must be hung on the inside of the storage area</li> <li>All ladders must be inspected and registered before use on site.</li> <li>No faulty ladders will be allowed on site, SWP (safe Working Procedure) and Risk assessments will be communicated to all workers forming part of the task.</li> <li>No wooden ladders are allowed to be used on site</li> <li>All workers will be inducted on the task before work commence.</li> <li>Only ladders approved by Client will be allowed on site.</li> </ul>	4	2	14	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
		<ul style="list-style-type: none"> <li>Unstable ground / floor</li> </ul>	<ul style="list-style-type: none"> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Planned job observation will be done daily by the Safety practitioner, supervisor and manager.</li> <li>Risk assessments and safe working procedures must be communicated to all workers that form part of the task.</li> <li>Task specific induction will be given to all employees involved in the task.</li> </ul>	4	2	14	16(2) Appointee	
		<ul style="list-style-type: none"> <li>Incorrect Body Position</li> </ul>	<ul style="list-style-type: none"> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Utilise scaffolding / safe work platform if body position cannot be properly positioned during execution of task.</li> <li>Supervisors to inspect sub-contractor procedures are</li> </ul>	4	2	14	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							followed. • PTO's to be conducted by a competent person daily and necessary control measures to be taken. • DSTI to be conducted					
14.	<b>SCAFFOLDING</b>	Using rusted and damaged scaffold material	• Property Damage • Physical Injuries	3	3	13	• Only SANS approved scaffold material will be allowed on site • No uncertified scaffold material to be used on site. • Scaffold inspector to make sure that all scaffolding is approved before use. • All scaffolding to be inspected before use and be recorded on scaffolding inspection register, deviations to be reported to site management / supervisor. • Action to be recorded on CAR(Corrective action Report)	3	2	9	16(2) Appointee	



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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							<ul style="list-style-type: none"> <li>All deviations to be actioned and rectified (CAR) to be signed by site management / supervisor and deviations to be reported.</li> </ul>					
		Incompetent scaffold erectors, supervisors / inspectors	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	3	3	13	<ul style="list-style-type: none"> <li>No employee to be allowed to erect scaffolding on site, appointed qualified erectors will be identified by different collard hard hats (Green).</li> <li>Scaffold ticket to be placed on hard hats to identify scaffold erectors or inspectors.</li> <li>Scaffold erection must be done under supervision of a competent supervisor appointed in writing.</li> </ul>	3	2	9	16(2) Appointee	
		Sub-standard scaffolds erected and used	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Only SANS approved scaffold material will be allowed on site</li> <li>Scaffold must be inspected daily and tags must be signed by the scaffold inspector before it can be</li> </ul>	4	2	14	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							utilised by employees. • Faulty scaffolding will be recorded on a register and deviations will be reported to site management / Supervisor. • A red tag will be placed on any unsafe scaffolding and no employee shall be allowed to use that particular scaffolding until the deviation has been corrected and the scaffold has been declared safe by a competent scaffold Inspector appointed in writing.					
		Scaffolds not inspected	• Property Damage • Physical Injuries	3	3	13	• Scaffold Inspectors will place red tags on scaffolding at the end of each shift and inclement weather • Scaffolding will be inspected	3	2	9	16(2) Appointee	

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							before work starts at the start of the shift or after inclement weather and a green tag will be placed back on the scaffolding. <ul style="list-style-type: none"> <li>• Inspection register must be completed and signed off by the appointed scaffold inspector</li> <li>• Contractors shall use SGB and or similar type approved tags for identification of scaffold inspection findings.</li> <li>• Modifications must be recorded on inspection register and be available on request</li> </ul>					
		Sub-standard access and egress	<ul style="list-style-type: none"> <li>• Property Damage</li> <li>• Physical Injuries</li> <li>• Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>• Ladders to be staggered every 3 metres inside scaffold frame with safe landing platform and a trap door fitted on the working platform</li> </ul>	4	2	14	16(2) Appointee	

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		Falling objects	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Signs to be placed around scaffold to warn workers of falling objects</li> <li>No workers will be allowed to work under one another on different levels.</li> <li>Guard rails and toe boards shall be provided on all outer edges and ends of all scaffolding where a person or an object can fall a distance of 1.5 metres or more</li> <li>All tools used on scaffolding will be fitted with wrist lanyards.</li> <li>No overhead work to be allowed on site.</li> </ul>	4	2	14	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
		Modifications	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	3	3	13	<ul style="list-style-type: none"> <li>Scaffolding may only be erected, dismantled and altered under the supervision of the Contractor's competent appointed person (Approved training certificate to be available).</li> <li>DSTIs to be conducted before the task commences.</li> <li>Task specific Risk Assessments and Safe work procedures to be communicated before commencement of task.</li> </ul>	3	2	9	16(2) Appointee	
		Sub-standard barricading and access control	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	3	3	13	<ul style="list-style-type: none"> <li>Barricading to be inspected daily.</li> <li>A flagman to communicate and give out DSTI document for signing by visitors in the work area.</li> </ul>	3	2	9	16(2) Appointee	

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							<ul style="list-style-type: none"> <li>Access points to be closed at all times and visitors must sign DSTI acknowledgement before they can be allowed in the work areas.</li> <li>A competent person to control access to work areas.</li> </ul>					
15.	<b>HOT WORK (GAS CUTTING,WELDING AND GRINDING)</b>	Operator not trained / competent / appointed / certified	<ul style="list-style-type: none"> <li>Physical Injuries</li> <li>Fatality</li> <li>Property Damage</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Task specific Induction to be conducted and employees to acknowledge communication by signing.</li> <li>PTO s to be conducted by Safety officer, supervisor and manger daily and control measures to be put in place.</li> <li>PPE Survey to be done on all tasks and relevant PPE to be issued to employees.</li> <li>All DSTIs and risk assessments to be communicated to all employees.</li> </ul>	4	2	14	16(2) Appointee  6(1) Appointee	

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		Open flames / Naked flames / Fire	<ul style="list-style-type: none"> <li>Physical Injuries</li> <li>Burns</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Task specific Inductions to be conducted.</li> <li>PTO s to be conducted daily and necessary control measures to be put in place after the findings.</li> <li>PPE Survey to be done on all tasks and relevant PPE to be issued to employees.</li> <li>Train employees on PPE use.</li> <li>All DSTI, risk assessments and SWP to be communicated to all employees.</li> <li>Working area to be clean from combustible material</li> <li>Housekeeping checks to be done daily before task starts.</li> <li>Hot works permits to be issued and when task is completed fire watcher to sign of hot works permit after checking for any</li> </ul>	4	2	14	16(2) Appointee  6(1) Appointee	

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							smouldering <ul style="list-style-type: none"> <li>Fire fighting inspection registers to be completed monthly.</li> <li>Competent person to train employees on the usage of firefighting equipment.</li> </ul>					
		Energy Release	<ul style="list-style-type: none"> <li>Physical Injuries</li> <li>Burns</li> <li>Electrocution</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Check Safety file to make sure appointed / competent person is the person operating the equipment.</li> <li>Task Specific PPE to be issued and workers to be trained on proper usage.</li> <li>Task specific Induction to be given to all employees.</li> <li>All DSTI and risk assessments and SWP to be communicated to all employees.</li> </ul>	4	2	14	16(2) Appointee  6(1) Appointee	



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		Hot objects from Welding and Gas Cutting	<ul style="list-style-type: none"> <li>• Damage to equipment</li> <li>• Burns</li> <li>• Physical Injuries</li> </ul>	3	3	13	<ul style="list-style-type: none"> <li>• Task specific Induction to be given to all employees.</li> <li>• PTO to be conduct daily as per requirements.</li> <li>• PPE Survey to be done on all tasks and relevant PPE to be issued.</li> <li>• Train workers on proper use of PPE.</li> <li>• All DSTIs and risk assessments to be communicated to all employees.</li> <li>• Fire screens to be used.</li> </ul>	3	2	9	16(2) Appointee	
		Rotating parts of Grinders / sharp objects	<ul style="list-style-type: none"> <li>• Damage to equipment</li> <li>• Physical Injuries</li> <li>• Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>• Task specific Inductions ton be given to all employees involved in the task.</li> </ul>	4	2	14	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							<ul style="list-style-type: none"> <li>PTOs to be conducted and necessary control measures to be taken.</li> <li>PPE Survey to be done on all tasks and relevant PPE issued to employees.</li> <li>Train workers on PPE use</li> <li>All DSTI and risk assessments to be communicated to employees.</li> <li>Only tagged electrical equipment to be used onsite.</li> <li>Monthly inspection and tagging to be done by a competent electrician.</li> </ul>					
		Flying particles from grinding	<ul style="list-style-type: none"> <li>Foreign bodies in eyes</li> <li>Impaired vision</li> <li>Permanent or partial disability</li> <li>Superficial burns</li> </ul>	3	3	13	<ul style="list-style-type: none"> <li>Competent trained workers to operate electrical equipment.</li> <li>Appointed electrical equipment inspector to inspect grinders daily and submit the checklist to Safety department.</li> </ul>	3	2	9	16(2) Appointee	

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		Excessive noise (> 82dB)	<ul style="list-style-type: none"> <li>Noise induced hearing loss</li> </ul>	2	3	8	<ul style="list-style-type: none"> <li>Task specific Induction to be given to all employees.</li> <li>PTO to be conducted daily and poor performers to be re-inducted.</li> <li>PPE Survey to be conducted and relevant PPE issued to all employees involved in the task.</li> <li>Employees to be trained on proper use of PPE.</li> <li>All DSTI and risk assessments to be communicated to all employees.</li> </ul>	2	2	5	16(2) Appointee	
		No radiation or spark containment	<ul style="list-style-type: none"> <li>Physical Injuries</li> <li>Burns</li> <li>Arc eyes</li> </ul>	2	3	8	<ul style="list-style-type: none"> <li>No work to commence without relevant complete PPE.</li> <li>Double eye protection (SABS approved) to be used.</li> </ul>	2	2	5	16(2) Appointee	

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							<ul style="list-style-type: none"> <li>All PPE to be inspected before use any deviations to communicate to supervisor and new PPE to be issued to worker.</li> <li>Use of angle grinders over 230mm is prohibited</li> </ul>					
		Items not Inspected / safety devices not in place / Defective tools and equipment	<ul style="list-style-type: none"> <li>Damage to equipment</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Employees to undergo task specific induction before they can be allowed to take part in the activity.</li> <li>PTO to be conducted daily as per requirements.</li> <li>Poor performers to be re-inducted /re-trained.</li> <li>DSTIs, Risk assessments and SWP to be communicated to all employees before commencing task.</li> </ul>	4	2	14	16(2) Appointee	

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		Sub-Standard Cable Management (Slip, Trip and Fall)	<ul style="list-style-type: none"> <li>Physical Injuries</li> </ul>	3	3	13	<ul style="list-style-type: none"> <li>Only competent and authorised personnel to utilise tools / equipment</li> <li>Implement daily housekeeping standards</li> <li>Equipment to be inspected daily</li> <li>Safety watcher to report deviations immediately to site supervisor</li> </ul>	3	2	9	16(2) Appointee	
16.	<b>OXYGEN / ACETYLENE AND LPG CYLINDERS</b>	Sub-standard storage areas	<ul style="list-style-type: none"> <li>Fire</li> <li>Burns</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Housekeeping checklist to be done daily.</li> <li>All cylinders to be chained to a solid structure when stored.</li> <li>Only authorised personnel to have access to cylinder storage area.</li> <li>Correct signage's to be displayed outside the store area.</li> <li>HCS stores not to be placed close to cylinder store.</li> </ul>	4	2	14	16(2) Appointee	

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							<ul style="list-style-type: none"> <li>MSDS to be available on site.</li> <li>All stores to be built according to OSH act and specifications.</li> <li>All cylinders to be marked clearly.</li> </ul>					
		Gas cylinders stored incorrectly	<ul style="list-style-type: none"> <li>Fire</li> <li>Burns</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Mark empty cylinders clearly and store in space provided for empty cylinders.</li> <li>Cylinders stored in an upright position.</li> <li>Cylinders chained separately in an upright position.</li> <li>Oxy / Acetylene stored</li> </ul>	4	2	14	16(2) Appointee	

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							separately. • Task specific Induction to be given to employees. • PTO to be conducted daily. • All DSTIs and Risk Assessments to be communicated to all employees.					
		No flash-back arrestors	• Fire • Burns • Physical Injuries • Fatality	4	3	18	• Gas cutting equipment and connections to be in compliance with SANS requirements / standards and specifications.	4	2	14	16(2) Appointee	
		Sub-standard storage and use on site	• Fire • Burns • Physical Injuries • Fatality	4	3	18	• LPG cylinders to be fitted with approved regulator systems. • Tools and equipment to be inspected daily / prior to use in accordance to SANS requirement/ standards and	4	2	14	16(2) Appointee	

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							Specifications. <ul style="list-style-type: none"> <li>Hoses shall not exceed the maximum length of 30m</li> <li>Regular inspections on hoses / fittings / equipment / leak tests</li> <li>Defective equipment to be removed from site and placed in a controlled quarantine area.</li> </ul>					
		Sub-standard transportation of cylinders	<ul style="list-style-type: none"> <li>Fire</li> <li>Burns</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Transporting vehicles to be inspected to ensure proper transportation procedures are followed.</li> <li>No cylinders shall be accepted or allowed on site without proper seals or with any damage to the cylinder head.</li> </ul>	4	2	18	16(2) Appointee	



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17.	<b>HAZARDOUS SUBSTANCES AND CONTROL</b>	Incorrect handling of chemicals and hazardous substances	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Hazardous substance procedures to be given in toolbox talks. DSTIs to be done with all employees working with Hazardous substances.</li> <li>Risk assessments to be reviewed regularly and communicated by SD practitioner.</li> <li>Employees to be inducted and trained in the Hazardous handling and disposal procedure.</li> </ul>	4	2	14	16(2) Appointee	
		Incorrect labeling of chemicals	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Supervisors to ensure all containers are labelled</li> </ul>	4	2	14	16(2)	

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		/ hazardous substances	<ul style="list-style-type: none"> <li>Fatality</li> </ul>				<p>properly and copies of MSDS are available.</p> <ul style="list-style-type: none"> <li>If in doubt suppliers to be contacted for information on proper labelling and MSDS for relevant chemicals.</li> </ul>				appointee	
		Incorrect storage of chemicals / hazardous substances	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Inspections to be carried out to ensure handling and storage of hazardous chemicals are done according to specifications.</li> <li>Emergency procedures for hazardous substances and spillages to be communicated to all employees.</li> </ul>	4	2	14	16(2) appointee	

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							<ul style="list-style-type: none"> <li>All relevant facilities for cleaning and treating of incidents related to hazardous substances to be readily available and all employees to be trained in the use thereof.</li> <li>Emergency response plan to be displayed in areas where visible. Fire extinguishers to be placed strategically with visible signs showing their position.</li> <li>No chemical to be used on site</li> </ul>					

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							without availability of relevant MSDS.					
		Inadequate security and access control	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Only competent personnel to use hazardous substances under the supervision of an appointed hazardous chemical supervisor. Employees to be required to sign for the hazardous substances before collecting them from store areas as a control measure.</li> </ul>	4	2	14	16(2) appointee	
		Emergency response plan and procedure not understood / implemented correctly	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Periodical emergency drills to be carried out and training on evacuation procedures to be given from time to time.</li> </ul>	4	2	14	16(2) appointee	

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							<ul style="list-style-type: none"> <li>Emergency coordinators to be appointed in writing with names displayed on the SMI boards.</li> <li>Identified assembly points to stay clear of any material/stacks or other tripping hazards.</li> <li>Emergency equipment to be maintained, inspections to be carried out and deviations rectified. Emergency teams to be selected and the appointees to undergo necessary training i.e. fire fighting.</li> <li>Emergency teams and all employees to be trained in the emergency plan and procedures.</li> <li>Emergency telephone numbers</li> </ul>					

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							of all relevant departments and services to be displayed on SMI boards and in offices. <ul style="list-style-type: none"> <li>All employees to be trained in disposal of hazardous material procedures, Supervisors to ensure adherence and inspections to be carried out by company Safety department.</li> </ul>					
		Permits and documentation not available	<ul style="list-style-type: none"> <li>Injuries / occupational diseases</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Activities will not be carried out without the permits and other necessary documentation like MSDS, Issue based Risk assessments and the DSTI's.</li> <li>Supervisor to ensure correct PPE is issued and used, regular PPE inspections to be carried out by Safety Practitioner.</li> </ul>	4	2	14	16(2) appointee	

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							<ul style="list-style-type: none"> <li>Only prescribed PPE for relevant hazardous substances to be used on site.</li> </ul>					
		<ul style="list-style-type: none"> <li>Unauthorised personnel in area</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Control measures to be adopted and communicated to all employees, regular inspections to be done to review the adherence and the effectiveness of the set control measures.</li> </ul>	4	2	14	16(2) Appointee	
18.	<b>WORKING IN OTHER CONTRACTORS AREAS</b>	<ul style="list-style-type: none"> <li>Area not inspected</li> </ul>	<ul style="list-style-type: none"> <li>Vehicle Accidents / Possible collisions</li> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>A DSTI will be conducted in accordance to the DSTI Procedures.</li> <li>Fire exit routes will be kept free from obstruction, or alternate routes will be clearly identified with visible signs.</li> <li>Fire Fighting Equipment to be placed in non-congested areas as per Fire Survey conducted in pre-</li> </ul>	4	2	14	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							work assessment / inspection. • Employees to respect other contractor's signs, barricading and all rules to be obeyed.					
		<ul style="list-style-type: none"> <li>Items not Inspected / safety devices not in place / Defective tools and equipment</li> </ul>	<ul style="list-style-type: none"> <li>Damage to equipment</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Practitioner to inspect all tools and equipment prior to site establishment.</li> <li>DSTI to be conducted as per DSTI procedure.</li> <li>No work to commence without appointed supervision</li> <li>LFRS – Safe guarding of equipment implemented and adhered to at all times</li> </ul>	4	2	14	16(2) Appointee	



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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
		<ul style="list-style-type: none"> <li>Interaction with other vehicles and people</li> </ul>	<ul style="list-style-type: none"> <li>Vehicle Accidents / Possible collisions</li> <li>Property Damage</li> <li>Physical Injuries</li> <li>Potential or Permanent Disability</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>5 M Rule applied at all times</li> <li>Traffic controller in front and back of vehicle – for all loading and offloading activities</li> <li>Segregation of pedestrians, light vehicles and heavy mobile equipment to be implemented on the project by means of berms, safe walkways, fencing, dedicated parking areas for light vehicles.</li> <li>All intersections to be treated as 4-way suspended if not otherwise indicated by traffic signage or a trained flagman to control.</li> <li>Traffic Management Plan to be developed and communicated to all employees.</li> </ul>	4	2	14	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
		<ul style="list-style-type: none"> <li>Man-machine interface</li> </ul>	<ul style="list-style-type: none"> <li>Vehicle Accidents / Possible collisions</li> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>5M Rule to be adhered to and enforced at all times.</li> </ul>	4	2	14	16(2) Appointee	
		<ul style="list-style-type: none"> <li>Unsecured Area</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Danger tape shall not be used on site.</li> <li>Proper “no entry” and other safety signage to be erected and displayed</li> <li>DSTIs conducted by a competent person and signed by all personnel prior to entering the area.</li> <li>Area to be properly barricaded as</li> </ul>	4	2	14	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							per barricading procedure – “Drop Zones” to be implemented.					
		<ul style="list-style-type: none"> <li>Unauthorized personnel in area</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>All applicable employees to comply with all site rules and regulations</li> <li>DSTI Process to be implemented as per the DSTI Process and signed by all applicable personnel</li> </ul>	4	2	14	16(2) Appointee	
		<ul style="list-style-type: none"> <li>Non-compliance to Traffic Management Plan</li> </ul>	<ul style="list-style-type: none"> <li>Vehicle Accidents / Possible collisions</li> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>No talking on cell phone while driving.</li> <li>No person allowed on back of open/closed vehicle unless fitted with seats and seat belts approved.</li> <li>Every driver to pre-plan the route.</li> </ul>	4	2	14	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							<ul style="list-style-type: none"> <li>Driver to pre-inspect vehicle</li> <li>No unnecessary interaction with other vehicles within the specific working area</li> </ul>					
		<ul style="list-style-type: none"> <li>Inadequate "Working at heights" training</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Emergency drills and at height rescue exercises to be conducted regularly.</li> </ul>	4	2	14	16(2) Appointee	
		<ul style="list-style-type: none"> <li>Inability to identify hazards associated with work in elevated positions</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Symbolic safety signage must be implemented</li> <li>All relevant documents to be available on SMI boards.</li> <li>No work permitted in wet / inclement weather</li> <li>No work to commence without "Working at heights" permit</li> </ul>	4	2	14	16(2)	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							obtained <ul style="list-style-type: none"> <li>• Roof Work Permit obtained</li> <li>• DSTI process implemented according to DSTI Procedure</li> <li>• Emergency drills and at height rescue exercises conducted regularly</li> <li>• Where the use of personal fall arrest equipment is required, a person shall not work alone</li> </ul>					
		<ul style="list-style-type: none"> <li>• Falling Objects</li> </ul>	<ul style="list-style-type: none"> <li>• Property Damage</li> <li>• Physical Injuries</li> <li>• Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>• Proper stacking and storage practices to be implemented as per requirements.</li> <li>• All scaffolding to be fitted with kick boards as per requirements.</li> <li>• Hand tools without wrist</li> </ul>	4	2	14	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							lanyards must not be allowed for use at elevated positions.					
		<ul style="list-style-type: none"> <li>Overhead work</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Communication of Construction Cardinal Rules to be done and employees to acknowledge by signing.</li> <li>The work schedule of all involved parties shall be discussed by management / supervisor and working strategies identified and implemented accordingly.</li> </ul>	4	2	14	16(2) Appointee	
		<ul style="list-style-type: none"> <li>Sub-Standard Housekeeping practices</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	3	3	13	<ul style="list-style-type: none"> <li>Client's to ensure all sub-Contractor work areas, lay-down areas and stacking areas are in a</li> </ul>	3	2	9	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							<p>good acceptable housekeeping state.</p> <ul style="list-style-type: none"> <li>• Sufficient waste bins to be provided within compliance with the Waste management Plan Colour coding requirements.</li> <li>• Waste to be controlled as per the Waste management Plan.</li> <li>• Bins provided shall be fitted with lids to eliminate possible contamination.</li> <li>• Bin liners or bags shall be supplied in domestic rubbish bins to ensure control and possible further contamination.</li> <li>• Work crews will assist during housekeeping operations conducted and to be arranged by the Project management /</li> </ul>					

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							supervisor. • Daily inspections to be ensured. • Deviation Reports to be submitted every day. • Visible Felt Leadership (VFL) procedure to be implemented and conducted daily.					
		• Sub-Standard Scaffolding	• Property Damage • Physical Injuries • Fatality	4	3	18	• A system to be in place to prevent tools and other objects from falling from height e.g. kick boards, tool bags, and wrist lanyards. • Inspections to be conducted daily and after inclement weather.	4	2	14		



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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
		<ul style="list-style-type: none"> <li>Workers not trained / not familiar with Emergency Response Plan</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Emergency drills and at height rescue exercises to be conducted regularly.</li> </ul>	4	2	14		
		<ul style="list-style-type: none"> <li>Unauthorised personnel in area</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Sufficient Access Control to be implemented</li> <li>DSTIs to be conducted as per DSTI procedure.</li> </ul>	4	2	14	16(2) Appointee	
		<ul style="list-style-type: none"> <li>Fall Protection Plan not implemented / understood</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>No work to commence without "Working at heights" permit obtained.</li> <li>Supervisor to be present at all times.</li> <li>Fall Rescue Kit to be available at all times / inspected and findings logged on register</li> <li>Emergency drills and at height</li> </ul>	4	2	14	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							rescue exercises to be conducted regularly. <ul style="list-style-type: none"> <li>• Single Person Anchor Points shall be capable of withstanding 15kN</li> <li>• Certified by Structural Engineer</li> </ul>					
		<ul style="list-style-type: none"> <li>• Sub-Standard or no PPE utilised</li> </ul>	<ul style="list-style-type: none"> <li>• Property Damage</li> <li>• Physical Injuries</li> <li>• Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>• Safety helmets to be secured with a chin strap when working in elevated positions</li> <li>• Glass cutting gloves to be used when working with sharp objects.</li> </ul>	4	2	14	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
		<ul style="list-style-type: none"> <li>Permits not available</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>No work to commence without "Working at heights" permit obtained.</li> </ul>	4	2	14	16(2) Appointee	
		<ul style="list-style-type: none"> <li>Insufficient Supervision</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>No work to commence without "Working at heights" permit obtained.</li> <li>Supervisor to be present at all times.</li> </ul>	4	2	14	16(2) Appointee	
		<ul style="list-style-type: none"> <li>Sub-Standard Working Platforms</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Platforms and covering must be able to support any person's weight entering the area.</li> </ul>	4	2	14	16(2) Appointee	
		<ul style="list-style-type: none"> <li>Unsafe Access and Egress / sub-standard ladders</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Safe access and egress to be provided</li> </ul>	4	2	14	16(2)	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
			<ul style="list-style-type: none"> <li>Fatality</li> </ul>				<ul style="list-style-type: none"> <li>No work to be permitted in wet / inclement weather.</li> <li>Ladders to be staggered every 3 metres inside scaffold frame with safe landing platform and a trap door fitted on working platform</li> <li>Ladders to be constructed of sound and strong material.</li> <li>Ladders to be properly maintained in accordance with the OHSAct 85 of 1993.</li> <li>Ladders will be inspected and monthly records kept in file.</li> <li>Ladders will be inspected before and after use and any observed defects to be rectified immediately.</li> </ul>				Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
		<ul style="list-style-type: none"> <li>Lack of Supervision</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>No work to commence without "Working at heights" permit obtained .</li> </ul>	4	2	14	16(2) Appointee	
		<ul style="list-style-type: none"> <li>Sub-standard / unsafe stacking practices</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Stacks will only be erected in areas specifically demarcated for this purpose.</li> <li>Stacking will only be conducted on stable and level surface capable of supporting the entire mass of the stack.</li> <li>Broken / damaged pallets must not be utilised and will be replaced immediately</li> <li>Stacks of articles of irregular or alterable shape shall be interlocked and / bonded to ensure stability.</li> </ul>	4	2	14	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							<ul style="list-style-type: none"> <li>• Circular items will be secured with wedges or chocks</li> <li>• No person will remove any item from any stack except from the most top layer.</li> <li>• Any unstable / unsafe stack to be dismantled immediately</li> <li>• No stack will form an obstruction for access to any fire extinguisher / first aid equipment / electrical switchgear / ventilation or lighting installation.</li> <li>• A minimum clearance of 1 meter shall be maintained between the top of the stack and all ceilings, light fittings, sprinkler systems and ventilation outlets / inlets.</li> <li>• Adequate clearance will be maintained between stacks to provide access and control in the</li> </ul>					

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							event of fire. • Stacking / Storage on shelves / in cupboards / lockers and cabinets will be neat / tidy / stable and controlled. Heavier items will be stored on the lowest shelves					
		• Sub-Standard Barricading	• Property Damage • Physical Injuries • Fatality	4	3	18	• Every excavation which is accessible to public or which is adjacent to public roads or thoroughfares or whereby the safety of persons may be endangered, must be adequately protected by a barrier or fence of a minimum of one metre in height and not less than 2 metres from the excavation. • Barricading to be provided with warning illuminates' or any other clearly visible boundary	4	2	14	16.2 Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							indicators at night or when visibility is poor. • Barricading procedures to be followed according to specifications.					
		• Sub-Standard Notices / Signs	• Property Damage • Physical Injuries • Fatality	4	3	18	• Warning signs to be positioned next to an excavation within which persons are working or carrying out inspections or tests. • Symbolic safety signs to be in compliance with specifications	4	2	14	16(2) Appointee	
		• Slip / Trip and Fall	• Property Damage • Physical Injuries	4	3	18	• DSTIs to be conducted as per the DSTI procedure. • Ensure task specific Risk Assessments and safe work procedures are developed and communicated to all employees.	4	2	14	16(2) Appointee	



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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
		<ul style="list-style-type: none"> <li>Sub-Standard Access and Egress</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Ensure convenient and safe means of access to every excavation in which persons are required to work and such access shall not be further than 6m from the point where any worker within the excavation is working.</li> <li>SD Practitioner to ensure access and egress complies with specifications on all areas.</li> </ul>	4	2	14	16(2) Appointee	
		<ul style="list-style-type: none"> <li>Pinching / scratching</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	3	3	13	<ul style="list-style-type: none"> <li>Proper and adequate PPE to be utilised as identified in the PPE needs analysis.</li> <li>Mechanical aid to be utilised where possible.</li> <li>Risk Assessments to be conducted on manual handling</li> </ul>	3	2	9	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							tasks. • To conduct DSTI's as per requirements.					
		• Back injuries	• Property Damage • Physical Injuries	3	3	13	• Employees to be reminded on adopting a stable foot position when lifting loads manually. • Employees to be reminded to grip the load firmly. • Ensure that adequate and proper PPE is utilised as identified in the PPE needs analysis	3	2	9	16(2) Appointee	
		• Employees not competent to perform allocated duties	• Property Damage • Physical Injuries • Fatality	4	3	18	• DSTI to be conducted as per DSTI procedure. • No work to commence without appointed supervision.	4	2	14	16(2) Appointee	
		• Sub-standard Tools And Equipment	• Property Damage • Physical Injuries	4	3	18	• Safety Practitioner to inspect all tools and equipment prior to site establishment.	4	2	14	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							<ul style="list-style-type: none"> <li>DSTI to be conducted.</li> <li>No work to commence without appointed supervision</li> <li>Monthly inspection colour coding to be complied with for all tools and equipment.</li> </ul>					
		<ul style="list-style-type: none"> <li>Environmental Contamination</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	3	3	13	<ul style="list-style-type: none"> <li>Handling and disposing of hazardous chemical substances to be done according to the requirements.</li> <li>Environmental management plan to be communicated to all employees.</li> <li>Segregation of waste to be enforced by supervisor.</li> <li>Skip bins to be available at all key points /areas for easy disposal of waste.</li> </ul>	3	2	9	16(2) Appointee	

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Item	Task or Activity	Hazards / Risk (Potential danger) (Energy)	Possible Consequence Likely to happen	Initial Risk Score			Proposed Control Measures	Revised Risk Score			Action assigned to	Acceptance of responsibility
				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
		<ul style="list-style-type: none"> <li>Working on site without all required documentation and permits in place</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>No work to commence without approved "Working at heights" permit obtained from the client.</li> </ul>	4	2	14	16(2) Appointee	
		<ul style="list-style-type: none"> <li>Sub-standard ladders / step ladders</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>No work to be permitted in wet / inclement weather</li> <li>Ladders to be staggered every 3 metres inside scaffold frame with safe landing platform and a trap door fitted on working platform</li> <li>Ladders to be inspected before and after use and any observed defects to be rectified immediately.</li> <li>Ladders will be properly maintained in accordance with the OHSAct 85 of 1993 and a planned maintenance</li> </ul>	4	2	14	16(2) Appointee	

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Item	Task or Activity	Hazards / Risk (Potential danger) (Energy)	Possible Consequence Likely to happen	Initial Risk Score			Proposed Control Measures	Revised Risk Score			Action assigned to	Acceptance of responsibility
				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							programme. • Ladder work to be restricted to task which can be carried out using one hand only. • 3-point contact to be maintained at all times.					
		• Unstable ground / floor	• Physical Injuries • Fatality	4	3	18	• Correct angle of rest of ladder is 75 degrees, or a base to height ration of 1:4	4	2	14	16(2) Appointee	
		• Incorrect Body Position	• Damage to property • Damage to equipment • Physical Injuries • Fatality	4	3	18	• Utilise scaffolding / safe work platform if body position cannot be maintained in correct position. • Supervisors to check Method Statements supplied by Sub-Contractors to ensure that ladders are utilised correctly and	4	2	14	16(2) Appointee	

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Item	Task or Activity	Hazards / Risk (Potential danger) (Energy)	Possible Consequence Likely to happen	Initial Risk Score			Proposed Control Measures	Revised Risk Score			Action assigned to	Acceptance of responsibility
				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							maintained. • DSTI to be conducted as per DSTI procedure. • VFL to be conducted by manager and supervisor daily as per requirements.					
		<ul style="list-style-type: none"> <li>Working Platforms not inspected / compliant to applicable standards</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>All working platforms to be fully compliant with the LFRS requirements.</li> <li>All working platforms to be subjected to approval for use by the client.</li> </ul>	4	2	14	16(2) Appointee	
		<ul style="list-style-type: none"> <li>Sub-standard hand tools utilised</li> </ul>	<ul style="list-style-type: none"> <li>Damage to property</li> <li>Physical Injuries</li> </ul>		3	13	<ul style="list-style-type: none"> <li>Management / supervisor to monitor the condition of hand tools which can deteriorate with use.</li> </ul>	3	2	9	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							<ul style="list-style-type: none"> <li>Tools found not within compliance or shall be confiscated.</li> <li>Employees trained to carry and use screwdrivers and other sharp tools to prevent injuries to other users or themselves.</li> <li>Non-ferrous (spark-free) tools to be utilised in flammable atmospheres.</li> <li>Use insulated tools where there is a possibility of live electrical work</li> <li>Inspections to focus on Mushroom heads for chisels / deterioration and exposed tangs for hammers and file handles and splayed jaws for open-ended spanners.</li> </ul>					

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Item	Task or Activity	Hazards / Risk (Potential danger) (Energy)	Possible Consequence Likely to happen	Initial Risk Score			Proposed Control Measures	Revised Risk Score			Action assigned to	Acceptance of responsibility
				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							<ul style="list-style-type: none"> <li>Employees are to be instructed in the correct use and maintenance of tools.</li> <li>Employees must report all unsafe tools as stipulated in the OHS act 85 Of 1993 as one of their duties.</li> </ul>					
		<ul style="list-style-type: none"> <li>Inspections and hazard identification not conducted prior to work commencement</li> </ul>	<ul style="list-style-type: none"> <li>Damage to property</li> <li>Damage to equipment</li> <li>Physical Injuries</li> </ul>	3	3	13	<ul style="list-style-type: none"> <li>A Spotter / Brakeman with a whistle to be utilised in order to suspended the cable pullers in time if necessary.</li> <li>Good communication between all team members and supervisor / spotter / brakeman to be upheld at all times.</li> <li>Edge protection to be installed</li> </ul>	3	2	9	16(2) Appointee	



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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							and inspected regularly. • Over stressing of the cable to be prevented by close supervision and monitoring of all work. • Cable pulls to be smooth and maintained at a reasonable rate to ensure control and tension requirements are met. • No work to commence without a competent and appointed supervisor present. • Safe Operating Procedures / Safe Working Procedures to be implemented.					
		• Sub-standard cable management	• Damage to equipment • Physical Injuries	3	3	13	• Use cable rollers to reduce the drag on the cable.	3	2	9	16(2)	

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Item	Task or Activity	Hazards / Risk (Potential danger) (Energy)	Possible Consequence Likely to happen	Initial Risk Score			Proposed Control Measures	Revised Risk Score			Action assigned to	Acceptance of responsibility
				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							<ul style="list-style-type: none"> <li>The length of cable and changes in cable direction are to be kept to the minimum practicable for each pulling task.</li> </ul>				Appointee	
		<ul style="list-style-type: none"> <li>Substandard communication of Hazards / risks to all employees in specific area</li> </ul>	<ul style="list-style-type: none"> <li>Damage to property</li> <li>Damage to equipment</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>DSTI to be conducted</li> <li>DSTI to be signed by all applicable parties</li> <li>Noise surveys and availability of materials and tools to be utilised, shall be identified in pre-use assessments</li> <li>Proper safety signage to be installed / erected prior to work commencing</li> <li>Work in confined space – permit to be requested and communication of permit rules to be done.</li> </ul>	4	2	14	16(2) Appointee	

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Item	Task or Activity	Hazards / Risk (Potential danger) (Energy)	Possible Consequence Likely to happen	Initial Risk Score			Proposed Control Measures	Revised Risk Score			Action assigned to	Acceptance of responsibility
				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							<ul style="list-style-type: none"> <li>SMI Boards to be erected at the entrance of the area.</li> </ul>					
19.	<b>WORKING IN CONGESTED AREA / OTHER CONTRACTOR'S AREA</b>	<ul style="list-style-type: none"> <li>Substandard communication of Hazards / risks to all employees in specific area</li> </ul>	<ul style="list-style-type: none"> <li>Damage to property</li> <li>Damage to equipment</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Supervisor and SD Practitioner to ensure DSTI's are understood by all employees. Employees to be allowed to ask questions and raise safety concerns in their respective work areas.</li> <li>Management to ensure noise survey is done and pre-use assessments.</li> </ul>	4	2	14	16(2) Appointee	

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Item	Task or Activity	Hazards / Risk (Potential danger) (Energy)	Possible Consequence Likely to happen	Initial Risk Score			Proposed Control Measures	Revised Risk Score			Action assigned to	Acceptance of responsibility
				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							<ul style="list-style-type: none"> <li>Supervisor and SD Practitioner to use a checklist to ensure all signage posts are in place before every activity commences.</li> <li>No work to be done without availability of a confined space – permit and communication thereof.</li> <li>SMI boards to be kept up to date with relevant information.</li> </ul>					
		<ul style="list-style-type: none"> <li>Interaction with other vehicles and people</li> </ul>	<ul style="list-style-type: none"> <li>Vehicle Accidents / Possible collisions</li> <li>Property Damage</li> <li>Physical Injuries</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>DSTI's to be done and site Cardinal rules to form part of toolbox talks. Supervisors to ensure the rules are adhered</li> </ul>	4	2	14	16(2) Appointee	

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Item	Task or Activity	Hazards / Risk (Potential danger) (Energy)	Possible Consequence Likely to happen	Initial Risk Score			Proposed Control Measures	Revised Risk Score			Action assigned to	Acceptance of responsibility
				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
			<ul style="list-style-type: none"> <li>Fatality</li> <li>Potential or Permanent Disability</li> </ul>				<p>to.</p> <ul style="list-style-type: none"> <li>No heavy Vehicles (SME) to be allowed onsite without an escort and/ flagman in front and at the back of the vehicle.</li> <li>Re-communication of signal system to be done regularly to ensure the operator and flagman understand the signal system in place.</li> <li>DSTI's to be done and operators to take extra caution after inclement weather.</li> </ul>					

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Item	Task or Activity	Hazards / Risk (Potential danger) (Energy)	Possible Consequence Likely to happen	Initial Risk Score			Proposed Control Measures	Revised Risk Score			Action assigned to	Acceptance of responsibility
				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							<ul style="list-style-type: none"> <li>• Inductions and toolbox talks to be given and all employees to sign.</li> <li>• Always have a standby driver or operator to allow resting for operators.</li> <li>• Traffic Management to be communicated to all employees and supervisor SD practitioner to evaluate the effectiveness of the system and review where necessary. Dedicated and competent</li> </ul>					

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Item	Task or Activity	Hazards / Risk (Potential danger) (Energy)	Possible Consequence Likely to happen	Initial Risk Score			Proposed Control Measures	Revised Risk Score			Action assigned to	Acceptance of responsibility
				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							Flagman to be posted on strategic points to assist with traffic control and inform other contractors and visitors of hazards in the area.					
		<ul style="list-style-type: none"> <li>Man-machine interface</li> </ul>	<ul style="list-style-type: none"> <li>Vehicle Accidents / Possible collisions</li> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Inductions, toolbox talks, DSTIs and traffic management plan to be communicated to all employees.</li> <li>No overhead work.</li> <li>In cases where there is no Flagman employees to give way to SMEs.</li> </ul>	4	2	14	16(2) Appointee	

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Item	Task or Activity	Hazards / Risk (Potential danger) (Energy)	Possible Consequence Likely to happen	Initial Risk Score			Proposed Control Measures	Revised Risk Score			Action assigned to	Acceptance of responsibility
				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
		<ul style="list-style-type: none"> <li>Unsecured Area</li> </ul>	<ul style="list-style-type: none"> <li>Property Damage</li> <li>Physical Injuries</li> <li>Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>Barricading methods or standards to be used and maintained.</li> <li>Employees to be trained in the importance of maintaining barricading in good order through inductions and tool box talks.</li> <li>Supervisors to ensure compulsory attendance of DSTI's and toolbox talks and team leaders to report any person who does not adhere to instructions.</li> </ul>	4	2	14	16(2) Appointee	



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Item	Task or Activity	Hazards / Risk (Potential danger) (Energy)	Possible Consequence  Likely to happen	Initial Risk Score			Proposed Control  Measures	Revised Risk Score			Action assigned to	Acceptance of responsibility
				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
		<ul style="list-style-type: none"> <li>• Unauthorised personnel in area</li> </ul>	<ul style="list-style-type: none"> <li>• Property Damage</li> <li>• Physical Injuries</li> <li>• Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>• Ensure all visitors are inducted and advised not to enter restricted areas.</li> <li>• Visitors to follow the Site access control system and procedures before they can be allowed onsite.</li> </ul>	4	2	14	16(2) Appointee	
		<ul style="list-style-type: none"> <li>• Area not inspected</li> </ul>	<ul style="list-style-type: none"> <li>• Vehicle Accidents / Possible collisions</li> <li>• Property Damage</li> <li>• Physical Injuries</li> <li>• Fatality</li> </ul>	4	3	18	<ul style="list-style-type: none"> <li>• Inspections to be carried out by SD Practitioner twice a day and deviations to be reported to supervisor for rectification.</li> <li>• Inspections to be carried out on all fire / emergency exit routes. Good housekeeping to be ensured by conducting</li> </ul>	4	2	14	16(2) Appointee	

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				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							periodical inspections.  • Checklist to be used in conducting inspections on all emergency facilities.					
		• Overhead work	• Damage to property • Damage to equipment • Physical Injuries • Fatality	4	3	18	• No overhead work to be allowed onsite. • Supervisors to monitor and review the schedules and ensure adherence to these schedules and working strategies.	4	2	14	16(2) Appointee	

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Item	Task or Activity	Hazards / Risk (Potential danger) (Energy)	Possible Consequence Likely to happen	Initial Risk Score			Proposed Control Measures	Revised Risk Score			Action assigned to	Acceptance of responsibility
				Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating		
							<ul style="list-style-type: none"> <li>Traffic management plan to be communicated and supervisor to enforce adherence.</li> </ul>					

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RISK & ASSURANCE STANDARD	RISK MATRIX				
	Hazard Effect / Consequence				
Loss Type	1 Insignificant	2 Minor	3 Moderate	4 Major	5 Catastrophic
Timeline	No impact on overall project timeline	May result in overall project timeline overrun of less than 5%	May result in overall project timeline overrun of between 5% and less than 20%	May result in overall project timeline overrun of between 20% and less than 50%	May result in overall project timeline overrun of 50% or more
Budget	No impact on the budget of the project	May result in overall project budget overrun of less than 5%	May result in overall project budget overrun of between 5% and less than 20%	May result in overall project budget overrun of between 20% and less than 50%	May result in overall project budget overrun of 50% or more
Investment Return – NPV loss	Less than R5m	R5m to less than R50m	R50M to less than R500m	R500m to R5b	R5b or more
Quality	No impact on quality	Minimal quality issues that can be addressed in a short timeframe with minimal interactions	Some quality issues that requires immediate management action	Significant quality issues that requires senior project management interaction	Significant quality issues that requires sponsorship intervention with significant resource and cost implications for rework
Safety / Health	First aid case / Exposure to minor health risk	Medical treatment case / Exposure to major health risk	Lost time injury / Reversible impact on health	Single fatality or loss of quality of life / Irreversible impact on health	Multiple fatalities / Impact on health ultimately fatal
Environment	Minimal environmental harm – L1 incident	Material environmental harm – L2 incident remediable short term	Serious environmental harm – L2 incident remediable within LOM	Major environmental harm – L2 incident remediable post LOM	Extreme environmental harm – L3 incident irreversible

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<b>Legal &amp; Regulatory</b>		No legal impact	Minor legal concerns with minor impact	Some legal concerns with manageable level of impact	Serious legal concerns and significant impact on operations	Legal noncompliance with risk of shutdown of operations with significant cost impacts
<b>Reputation / Social / Community</b>		Slight impact - public awareness may exist but no public concern	Limited impact - local public concern	Considerable impact - regional public concern	National impact - national public concern	International impact - international public attention
<b>Likelihood</b>		<b>Risk Rating</b>				
5 <b>Almost Certain</b>	The unwanted event has occurred frequently; has a 90% and higher probability of reoccurring	11 Medium	16 Significant	20 Significant	23 High	25 High
4 <b>Likely</b>	The unwanted event has a probability of between 60% and less than 90% of occurring	7 Medium	12 Medium	17 Significant	21 High	24 High
3 <b>Possible</b>	The unwanted event has a probability of between 30% and less than 60% of occurring	4 Low	8 Medium	13 Significant	18 Significant	22 High
2 <b>Unlikely</b>	The unwanted event has a probability of between 1% and less than 30% of occurring	2 Low	5 Low	9 Medium	14 Significant	19 Significant
1 <b>Rare</b>	The unwanted event has never occurred, has a probability of less than 1% of occurring	1 Low	3 Low	6 Medium	10 Medium	15 Significant

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### RISK ASSESSMENT ACKNOWLEDGEMENT

I, the undersigned, hereby acknowledge that the relevant hazards as identified on the Risk Assessment, was communicated to me and I understand and acknowledge the safety instructions and control measures relevant to my activities.

I further more undertake to ensure compliance with the safety regulations and instructions noted. I hereby commit myself to create and maintain a safe work environment.

<b>Date</b>				<b>DSTI Ref.</b>			
<b>RA Number&amp; Rev</b>				<b>Facilitator</b>			
<b>No</b>	<b>Name</b>	<b>ID Number</b>	<b>Signature</b>	<b>No</b>	<b>Name</b>	<b>ID Number</b>	<b>Signature</b>
1				13			
2				14			
3				15			

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4				16			
5				17			
6				18			
7				19			
8				20			
9				21			
10				22			
11				23			
12				24			

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## APPENDIX 1 : OTHER OHS REQUIREMENTS



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WHAT	WHEN	OUTPUT
Awareness training	Weekly and before hazardous work is carried out	Attendance Register
Health and Safety Committee Meetings	Monthly	Minutes signed by the employer (Contractor) covering: <ul style="list-style-type: none"> <li>• Health and Safety Representative Checklist</li> </ul>
Health and Safety Reports	Monthly	Report covering: <ul style="list-style-type: none"> <li>• Incidents/Accidents and Investigations</li> </ul>

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		<ul style="list-style-type: none"> <li>• Non conformance</li> <li>• Health and Safety Training</li> <li>• HIRA Updates</li> <li>• Internal and External Audits</li> </ul>
General Inspections	As per OHSS and OHSA	<p>Report on Health and Safety Specification and OHSA compliance:</p> <ul style="list-style-type: none"> <li>• Scaffolding</li> <li>• Lifting Machinery</li> <li>• Excavation</li> </ul>

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General Inspections	Monthly	Covering: <ul style="list-style-type: none"> <li>• Firefighting Equipment</li> <li>• Portable Electrical Equipment</li> <li>• Ladders</li> </ul>
Record keeping	Ongoing	Covering: <ul style="list-style-type: none"> <li>• General complaints</li> <li>• Fines</li> <li>• General incidents</li> </ul>

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		<ul style="list-style-type: none"> <li>• MSDS</li> <li>• Surveillance Medicals</li> <li>• Inspection Register</li> <li>• Dept of Labour Notices</li> </ul>
Permits	Before commencement with certain activities	As stipulated by the Health and Safety Specification and the OHSA / Construction Regulations