

2	Manual Loading and Offloading - Manual Handling (Ergonomics)	1.Improper manual loading and off loading procedure 2. Nip & Pinch Points 3. Poor Communication 4. Slipping & Tripping Hazards 5. Employee handling materials / equipment that is to heavy to lift 6. Materials / equipment or tools falling	1. Health & safety (I)										3			3	1	5	125	5	5	75	60%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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7	Hot works (Grinding, Cutting, Welding, Drilling, Flame cutting, Soldering)	1. Incompetent employees conducting hot works 2. Improper storage of welding material 3. Hot works conducted in view of employees 4. Unsafe/ damaged equipment used 5. Sparks 6. Fire 7. Hotwork near flammable materials 8. Unsecured / unsafe storage of cylinders 9. Substandard PPE used 10. Overhead Hotwork operations 11. Hot works in wet conditions 12. Incorrect Discs used when cutting 13. No Guards in Place when cutting / Grinding. 14. Incorrect fittings used when connecting pipes to cylinders 15. Gauges not working on cylinders 16. No fire fighting equipment or fire fighter available 17. Hot work area not barricaded	<table><tr><td>1. Health & safety (I)</td><td>4</td><td></td><td>4</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>100</td><td>80%</td></tr><tr><td>2. Cost (C)</td><td></td><td>4</td><td>4</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>100</td><td>80%</td></tr><tr><td>3. Productivity (P)</td><td>3</td><td></td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>4. Environment (E)</td><td></td><td>2</td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td colspan="10">Total Average Risk Value</td><td>65%</td></tr></table>	1. Health & safety (I)	4		4	1	5	125	5	5	100	80%	2. Cost (C)		4	4	1	5	125	5	5	100	80%	3. Productivity (P)	3		3	1	5	125	5	5	75	60%	4. Environment (E)		2	2	1	5	125	5	5	50	40%	Total Average Risk Value										65%	Mandatory or as per requirement	Warning Signage to be posted at Designated Hotwork area	1. Only competent workers with the required skills and knowledge will be appointed to operate such machinery like grinders, welding machines, cutting torch etc. 2. Gas cylinders when used to be safely stored and to be secured, when not in use, in a cool place, upright position and locked store room. 3. All hot works to be conducted in an enclosed place away from public and employees conducting other activities. Welding screens to be placed at welding areas and solid barricading used to close off areas 4. All equipment used for Hot works must be inspected before use, all findings to be recorded on a checklist and any deviation must be recorded and reported to a supervisor, all guards must be in place and correct blades/ discs or drill bits to be used. 5. If conducting hot works near flammable materials or the bush, spark containment must be used, for example fire blankets, welding screens and wetting the areas with water. 6. Fire extinguishers must be placed near areas where hot works are conducted, and a trained competent appointed fire fighter to be available onsite. 7. SABS approved PPE to be issued and used on site. Task specific PPE is required for Hot work activities, for example welding helmet, face shield when cutting, safety glasses, dust masks, welding apron etc. 8. No Overhead Hotworks will be allowed, if Hot work is required at height it should be done from a approved scaffold or MEWP. Then the area below should be barricaded to prevent workers from entering that area. 9. Hot work will not be allowed in wet conditions, electrical cables must be made safe and free from water. 10. All cylinders used onsite must be fitted with the correct fittings and clamps when connecting the hoses. All gauges must be in good working condition. 11. All new vessels must be checked for leaks, leaking vessels should NOT be used. Equipment must be identified/numbered and entered into a register.	Service Provider, Contractor and Suppliers
1. Health & safety (I)	4		4	1	5	125	5	5	100	80%																																																				
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8	Limited recourses to conduct all task	1. Contractual non compliance 2. Schedule and cost over run on project	<table><tr><td>1. Health & safety (I)</td><td>1</td><td></td><td>1</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>25</td><td>20%</td></tr><tr><td>2. Cost (C)</td><td></td><td>4</td><td>4</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>100</td><td>80%</td></tr><tr><td>3. Productivity (P)</td><td>4</td><td></td><td>4</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>100</td><td>80%</td></tr><tr><td>4. Environment (E)</td><td></td><td>1</td><td>1</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>25</td><td>20%</td></tr><tr><td colspan="10">Total Average Risk Value</td><td>50%</td></tr></table>	1. Health & safety (I)	1		1	1	5	125	5	5	25	20%	2. Cost (C)		4	4	1	5	125	5	5	100	80%	3. Productivity (P)	4		4	1	5	125	5	5	100	80%	4. Environment (E)		1	1	1	5	125	5	5	25	20%	Total Average Risk Value										50%	Mandatory or as per requirement		1. Client to ensure that contractor is well aware of current scope definition as well as the requirements stipulated in the tender specifications. 2. Contractor to ensure compliance on set specifications from client	Service Provider, Contractor and Suppliers
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9	Scaffolding	1. Unsafe scaffold materials used 2. Offloading and Loading of scaffold material. 3. Incompetent scaffold erectors 4. Incompetent scaffold Inspector 5. Substandard scaffold, not as per SANS 10085 6. Uneven surfaces / Unstable surfaces 7. Inclement weather conditions 8. Unsafe access 9. Unsafe stacking and storage of scaffold materials 10. Stacking and storage of materials on top of scaffold platform 11. Overhead Powerlines 12. Unsafe / damaged safety harnesses used	<table><tr><td>1. Health & safety (I)</td><td>5</td><td></td><td>5</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>125</td><td>100%</td></tr><tr><td>2. Cost (C)</td><td></td><td>5</td><td>5</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>125</td><td>100%</td></tr><tr><td>3. Productivity (P)</td><td>3</td><td></td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>4. Environment (E)</td><td></td><td>2</td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td colspan="10">Total Average Risk Value</td><td>75%</td></tr></table>	1. Health & safety (I)	5		5	1	5	125	5	5	125	100%	2. Cost (C)		5	5	1	5	125	5	5	125	100%	3. Productivity (P)	3		3	1	5	125	5	5	75	60%	4. Environment (E)		2	2	1	5	125	5	5	50	40%	Total Average Risk Value										75%	Mandatory or as per requirement	Scaffold must be tagged - Safe to use or unsafe to use. Scaffold inspection Signage to be posted on scaffold	1. No damaged or unsafe scaffold materials allowed to be used for erecting of scaffold. 2. Workers to assist each other when lifting and handling of scaffold materials, gloves must be worn to prevent pinch point on hand and fingers. 3. Only appointed / competent scaffold erector to erect and dismantle scaffold, Proof of competency must be valid and available on site. 4. Only appointed / competent scaffold inspector to inspect and approve scaffold, Proof of competency must be valid and available on site. 5. Scaffold must be erected by competent person as per SANS 10085 standard. Scaffold must then be inspected by a competent inspector and record all findings on a checklist, deviations must be recorded and reported to scaffold supervisor. 6. Ground must be inspected stability before scaffold can be erected. If ground is stable scaffold can be erected, base jacks must be used to level the scaffold. 7. All scaffold work must be stopped when its raining due to the slippery surface, scaffold work can only continue if scaffold is dry and scaffold supervisor / inspector has inspected scaffold and approved it. 8. Stacking of materials on scaffold will only be allowed with the approval of the scaffold supervisor, after inspecting the height and weight of stacked materials. All materials must be removed daily on end of shift. 9. All scaffold materials must be stacked neatly in a safe manner 10. NO scaffold work will be allowed near overhead powerlines. 11. SWP & Risk Assessment for scaffold work must be communicated to relevant and all involved with scaffold work. 12. All safety harnesses must be inspected before use, all findings must be recorded on a checklist, any deviations must be recorded and reported to supervisor. COC for harness must be available in safety file. 13. Workers must be trained on the usage of safety harnesses and working at height. (Proof of competency must be available) 14. All workers working on scaffold must be medically fit (proof of valid medical must be available in the form of annexure 3. Medical must include fit for work at height.	Service Provider, Contractor and Suppliers
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13	Use of portable electrical tools and hand tools (Including use of Portable lights)	1. Unsafe, sub-standard and/or defective equipment used 2. Untrained employees using portable electrical tools	<table><tr><td>1. Health & safety (I)</td><td>4</td><td></td><td>4</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>100</td><td>80%</td></tr><tr><td>2. Cost (C)</td><td></td><td>3</td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>3. Productivity (P)</td><td>3</td><td></td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>4. Environment (E)</td><td></td><td>2</td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td colspan="11">Total Average Risk Value</td></tr><tr><td colspan="10"></td><td>60%</td></tr></table>	1. Health & safety (I)	4		4	1	5	125	5	5	100	80%	2. Cost (C)		3	3	1	5	125	5	5	75	60%	3. Productivity (P)	3		3	1	5	125	5	5	75	60%	4. Environment (E)		2	2	1	5	125	5	5	50	40%	Total Average Risk Value																					60%	Mandatory or as per requirement	1. Portable electrical tools and equipment includes every unit that takes electrical power from a 15 ampere plug point and is moved around for use in the workplace i.e. drills, saws, grindstones, portable lights, etcetera. In addition electrical appliances such as fridges, hotplates, heaters, etcetera must be inspected regularly but at least on a weekly basis and maintained to the same standards as portable electrical tools and appliances. 2. The use, inspection and maintenance of portable electrical tools and equipment must be governed by the following: - Regular inspections by a competent person appointed in writing; - Inspection results must be recorded in a register; - Only competent authorised persons are allowed to use portable electrical tools and equipment; and - The correct protective equipment is worn/used whilst operating portable electrical tools and equipment. 3. These equipment - - Must be maintained in good condition at all times to prevent an electrical shock to the user; - The main source should incorporate an earth leakage protection device or receive power through a double wound transformer or be double insulated and clearly marked as such; and - All equipment must be fitted with a switch to allow for safe and easy starting and stopping. 4. The following requirements to be applied with when portable lights are utilized (such as for illumination at stop-go points at night): - Must be fitted with a robust non-hygroscopic non-conducting handle; - Metal parts which may become live must be protected against contact; - The lamp must be protected by a strong guard; - The cable lead-in must withstand rough handling; - A register be kept for each piece of equipment with findings of regular inspections undertaken to evaluate the condition of these lights; - Inspections must be undertaken that concentrate on at least the plug, cord, switch, guard and any obvious faults; and - When used in wet/damp/metal container conditions, it must be protected. 5. Risk Assessment and Safe working Procedure for the operation of task specific Portable electrical tools must be communicated to those operating and exposed to hazards when using portable electrical tools	Service Provider, Contractor and Suppliers
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14	Illumination during night works	1. Personal injury due to poor illumination at night 2. Damage to equipment 3. Unauthorised Work at Night	<table><tr><td>1. Health & safety (I)</td><td>3</td><td></td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>2. Cost (C)</td><td></td><td>2</td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td>3. Productivity (P)</td><td>2</td><td></td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td>4. Environment (E)</td><td></td><td>1</td><td>1</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>25</td><td>20%</td></tr><tr><td colspan="11">Total Average Risk Value</td></tr><tr><td colspan="10"></td><td>40%</td></tr></table>	1. Health & safety (I)	3		3	1	5	125	5	5	75	60%	2. Cost (C)		2	2	1	5	125	5	5	50	40%	3. Productivity (P)	2		2	1	5	125	5	5	50	40%	4. Environment (E)		1	1	1	5	125	5	5	25	20%	Total Average Risk Value																					40%	Mandatory or as per requirement	1. Proper illumination to be available during night works 2. If any Work requires to be conducted at night sufficient lighting should be supplied. 3. All activities to be conducted at night must be approved by Construction Manager with guidance from competent Safety Professional	Service Provider, Contractor and Suppliers
1. Health & safety (I)	3		3	1	5	125	5	5	75	60%																																																														
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15	Use and Storage of flammables	1. Unsafe use and/or storage of flammables could result in fires or explosions 2. Unsafe stacking and Storage of flammable could result in spillages	<table><tr><td>1. Health & safety (I)</td><td>3</td><td></td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>2. Cost (C)</td><td></td><td>3</td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>3. Productivity (P)</td><td>2</td><td></td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td>4. Environment (E)</td><td></td><td>3</td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td colspan="11">Total Average Risk Value</td></tr><tr><td colspan="10"></td><td>55%</td></tr></table>	1. Health & safety (I)	3		3	1	5	125	5	5	75	60%	2. Cost (C)		3	3	1	5	125	5	5	75	60%	3. Productivity (P)	2		2	1	5	125	5	5	50	40%	4. Environment (E)		3	3	1	5	125	5	5	75	60%	Total Average Risk Value																					55%	Mandatory or as per requirement	Flammable material storage area must have warning signs (No Smoking, Flammable materials) 1. The Service Provider, Contractor and Suppliers to ensure that: - No person is required or permitted to work in a place where there is the danger of fire or an explosion due to flammable vapors being present unless adequate precautions is taken - Flammables stored on a construction site are stored in a well-ventilated, reasonably fire-resistant container, cage or room that is kept locked with consistent access control measures in place and sufficient fire fighting equipment installed and fire prevention methods practiced for example proper housekeeping; - Containers (including empty containers) to be kept closed to prevent fumes/vapors from escaping and accumulating in low lying areas - Welding and other flammable gases to be stored segregated as to the type of gas and empty and full cylinders 2. All flammable materials / containers must be clearly marked/labelled	Service Provider, Contractor and Suppliers
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16	Hazardous Chemical Substances	1.Improper storage of chemicals, transportation and handling 2. Unsafe use and/or storage of flammables could result in fires 3. Spilled chemical substances may also impact negatively on the health of employees and negative implications for the environment including legal and claim exposures. 4. Health hazards when ingesting, inhaling or skin contact with HCS	<table><tr><td>1. Health & safety (I)</td><td>3</td><td></td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>2. Cost (C)</td><td></td><td>3</td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>3. Productivity (P)</td><td></td><td>2</td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td>4. Environment (E)</td><td></td><td>3</td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td colspan="10">Total Average Risk Value</td><td>55%</td></tr></table>	1. Health & safety (I)	3		3	1	5	125	5	5	75	60%	2. Cost (C)		3	3	1	5	125	5	5	75	60%	3. Productivity (P)		2	2	1	5	125	5	5	50	40%	4. Environment (E)		3	3	1	5	125	5	5	75	60%	Total Average Risk Value										55%	Mandatory or as per requirement	Hazardous Chemical Substance storage area must have warning signs (No Smoking, Hazardous or Flammable materials)	1. The Service Provider, Contractor and Suppliers to ensure that: - Employees receive the necessary information and training to be able to use, handle and store hazardous chemical substances safely - The risk assessments required in terms of Construction Regulation 9 include employee exposure to hazardous chemical substances and that the necessary measures be taken to protect persons from being detrimentally affected by hazardous chemical substances present or used in the workplace. This Risk Assessment must be communicated to all employees exposed to HCS. - Suppliers provide the necessary information in the form of material safety data sheets regarding hazardous chemical substances required to ensure the safe use, handling and storage of these substances. This MSDS must be available on site and communicated to employees exposed to the HCS. - An up-to-date list is kept on site of hazardous chemical substances stored and used together with the material safety data sheet of the said hazardous chemical substances - Hazardous chemical substances containers be clearly marked as to the contents and main hazardous category e.g. "Flammable" or "Corrosive" - No person eats or drinks in a hazardous chemical substances workplace; - Hazardous chemical substances waste is disposed of safely in terms of hazardous waste disposal requirements at a registered facility. 2. HCS to be properly stored in a cool locked store room or storage area 3. Employees handling hazardous chemical substance to be trained. Possible preventive measures to be put in place in order to prevent harm to employees. PPE to be used when necessary.	Service Provider, Contractor and Suppliers
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17	Lack of communication between various parties involved.	1. Instructions not adequately followed through 2. Information not transmitted as supposed to 3. Schedule slippage due to rework	<table><tr><td>1. Health & safety (I)</td><td>2</td><td></td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td>2. Cost (C)</td><td></td><td>2</td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td>3. Productivity (P)</td><td></td><td>2</td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td>4. Environment (E)</td><td></td><td>1</td><td>1</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>25</td><td>20%</td></tr><tr><td colspan="10">Total Average Risk Value</td><td>35%</td></tr></table>	1. Health & safety (I)	2		2	1	5	125	5	5	50	40%	2. Cost (C)		2	2	1	5	125	5	5	50	40%	3. Productivity (P)		2	2	1	5	125	5	5	50	40%	4. Environment (E)		1	1	1	5	125	5	5	25	20%	Total Average Risk Value										35%	Mandatory or as per requirement		1.Implement and ensure a proper communication system between various parties involved. 2. Site meetings to be conducted on set intervals including integration between various parties	Service Provider, Contractor and Suppliers
1. Health & safety (I)	2		2	1	5	125	5	5	50	40%																																																				
2. Cost (C)		2	2	1	5	125	5	5	50	40%																																																				
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4. Environment (E)		1	1	1	5	125	5	5	25	20%																																																				
Total Average Risk Value										35%																																																				
18	Temporary structure (Temporary works)	1. Inadequate designs 2. Incompetent formwork erectors and inspectors 3. Temporary structure collapse due to poor design 4. Unsafe access to elevated areas 5. Poor stacking and storage of Form work materials 6. Manual handling 7. Pinch points 8. Work at Fall Positions	<table><tr><td>1. Health & safety (I)</td><td>4</td><td></td><td>4</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>100</td><td>80%</td></tr><tr><td>2. Cost (C)</td><td></td><td>4</td><td>4</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>100</td><td>80%</td></tr><tr><td>3. Productivity (P)</td><td></td><td>3</td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>4. Environment (E)</td><td></td><td>3</td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td colspan="10">Total Average Risk Value</td><td>70%</td></tr></table>	1. Health & safety (I)	4		4	1	5	125	5	5	100	80%	2. Cost (C)		4	4	1	5	125	5	5	100	80%	3. Productivity (P)		3	3	1	5	125	5	5	75	60%	4. Environment (E)		3	3	1	5	125	5	5	75	60%	Total Average Risk Value										70%	Mandatory or as per requirement	Areas where temporary structures are erected or demolished must be barricaded with warning signage posted	1. A contractor to appoint a temporary works designer in writing, to design, inspect and approve the erected temporary works. 2. Temporary works to be carried out under the supervision of a competent person appointed in writing. 3. To be erected by competent persons. 4. Temporary structure to be inspected by a competent person immediately, before, during and after the placement of concrete. After inclement weather or any other imposed load and at least on a daily basis until the temporary works has been removed and results recorded in a register. 5. All temporary works to be carried out as per Construction regulations 12. 6. Temporary work structures to be so designed, erected, supported, braced and maintained that they will be able to support any vertical or lateral loads that may be applied. 7. No load to be imposed onto a structure that the structure is not designed to carry. 8. Temporary work to be erected in accordance with the structural design drawings for such temporary work and if there is any uncertainty, the designer must be consulted before proceeding with the erection/use of the temporary work. 9. The foundation or base upon which the temporary work is erected to be able to bear the weight and keep the structure stable. 10. Employees erecting temporary work to be trained in the safe work procedures for the erection, moving and dismantling of the temporary work. 11. Safe access and emergency escape to be provided for employees. 12. Only employees trained to work at height with a valid medical fitness to work allowed to erect temporary works	Service Provider, Contractor and Suppliers
1. Health & safety (I)	4		4	1	5	125	5	5	100	80%																																																				
2. Cost (C)		4	4	1	5	125	5	5	100	80%																																																				
3. Productivity (P)		3	3	1	5	125	5	5	75	60%																																																				
4. Environment (E)		3	3	1	5	125	5	5	75	60%																																																				
Total Average Risk Value										70%																																																				

[illegible]

22	Working in Confined spaces	1. Poor ventilation 2. Gasses present 3. Poor visibility 4. Employees unfit to work in confined spaces	<table><tr><td>1. Health & safety (I)</td><td>4</td><td></td><td>4</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>100</td><td>80%</td></tr><tr><td>2. Cost (C)</td><td></td><td>4</td><td>4</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>100</td><td>80%</td></tr><tr><td>3. Productivity (P)</td><td>2</td><td></td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td>4. Environment (E)</td><td></td><td>2</td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr></table> Total Average Risk Value 60%	1. Health & safety (I)	4		4	1	5	125	5	5	100	80%	2. Cost (C)		4	4	1	5	125	5	5	100	80%	3. Productivity (P)	2		2	1	5	125	5	5	50	40%	4. Environment (E)		2	2	1	5	125	5	5	50	40%	Mandatory or as per requirement	Confined Spaces must be barricaded with warning signage posted (Entry Prohibited or No Unauthorised entry) 1. Service Provider, Contractor and Suppliers to ensure confined space works comply to the following - Ventilation a) The confined space to be opened and allowed to ventilate for at least 15 minutes before entering the manhole. All open manholes to be barricaded and manned at all times. A gas monitor to be lowered to the bottom of the confined space with a rope to test the presence of any toxic/flammable gas. If any gas is detected, the space to be force ventilated by means of a blower for at least 15 minutes where after the air should be tested again. Under no circumstances may any space be entered while there is a toxic/flammable gas present. After the undertaking of the necessary work, the person in charge of the activities to confirm that all the employees are accounted for. - Entering a confined space a) When entering a confined space, the person entering the space to wear a safety harness and fully operational gas detector. A lifeline should be attached to the safety harness and a person on the surface should be in continuous contact with the person in the confined space. At least one person on the surface to be trained in basic first-aid (level 1) with proof of such training as well as a fully equipped first aid box available on site. b) No person shall remain within a confined space for a period of more than one hour at a time. A minimum of 5 minute rest periods on the surface to be taken after this period before re-entering. c) Should the alarm sound on the gas monitor, all employees to exit the confined space and the immediate area should also be evacuated immediately. The area to be properly ventilated and re-tested before re-entering the confined space. Professional support should be called for if necessary. d) Employees to be provided with flameproof lighting when entering a confined space with the possibility of flammable gases. No naked lights, smoking or unprotected electrical apparatus which may cause sparks, shall be permitted in any confined space or in its vicinity. - Training a) All employees that have to enter a confined space to be formally trained and confirmed competent before being required to enter such areas (new employees to complete this training and be declared competent before allowed to work in a confined space). b) Refresher courses to be attended by employees at least once every 2 years or immediately if new methodologies or equipment are adopted or acquired. c) Continuous onsite training (Safety moments / toolbox talks) and support by supervisory staff to be undertaken and enforced where required d) Competent person to conduct continues gas monitoring of confined spaces 2. Task Specific Risk Assessment / Safe working Procedure and Method Statement for Work activities in Confined space to be communicated to relevant employees.(Proof of communication to be available in safety file)	Service Provider, Contractor and Suppliers
1. Health & safety (I)	4		4	1	5	125	5	5	100	80%																																								
2. Cost (C)		4	4	1	5	125	5	5	100	80%																																								
3. Productivity (P)	2		2	1	5	125	5	5	50	40%																																								
4. Environment (E)		2	2	1	5	125	5	5	50	40%																																								
23	Public health & safety and Pedestrians access to site	1. Unsafe pedestrian access 2. Injuries to by standing public or pedestrians 3. Public personal belongings or property damages	<table><tr><td>1. Health & safety (I)</td><td>4</td><td></td><td>4</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>100</td><td>80%</td></tr><tr><td>2. Cost (C)</td><td></td><td>4</td><td>4</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>100</td><td>80%</td></tr><tr><td>3. Productivity (P)</td><td>2</td><td></td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td>4. Environment (E)</td><td></td><td>1</td><td>1</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>25</td><td>20%</td></tr></table> Total Average Risk Value 55%	1. Health & safety (I)	4		4	1	5	125	5	5	100	80%	2. Cost (C)		4	4	1	5	125	5	5	100	80%	3. Productivity (P)	2		2	1	5	125	5	5	50	40%	4. Environment (E)		1	1	1	5	125	5	5	25	20%	Mandatory or as per requirement	1. The Service Provider, Contractor and Suppliers will be responsible for ensuring that non-employees affected by the construction work are made aware of the dangers likely to arise from said construction work as well as the precautionary measures to be observed to avoid or minimize those dangers. This includes among others: - Non- employees entering the site for whatever reason; - The surrounding community; - Public bystanders 2. Appropriate signage must be posted to this effect and all employees on site must be instructed to ensure that non-employees are protected at all times. 3. All non-employees entering the site must receive site applicable induction into the hazards and risks and the control measures for these. 4. Safe demarcated walkway to be erected / conducted or displayed for visitors 5. Pedestrian crossings to be conducted and utilized 6. No Construction work near public vehicles. 7. Construction area must be barricaded (No Danger tape) or fenced to prevent Public from entering work area.	Service Provider, Contractor and Suppliers
1. Health & safety (I)	4		4	1	5	125	5	5	100	80%																																								
2. Cost (C)		4	4	1	5	125	5	5	100	80%																																								
3. Productivity (P)	2		2	1	5	125	5	5	50	40%																																								
4. Environment (E)		1	1	1	5	125	5	5	25	20%																																								

25	Emergency Preparedness (Fire Prevention, First aid)	1. Inadequate emergency Planning could result in the inability to effectively respond to emergencies 2. Inadequate first-aid arrangements could impact negatively of the ability to respond to first-aid injuries or to stabilize injured employees or other persons that may require advanced health care. 3. Inadequate fire prevention and protection measures may impact negatively on the ability to fight fires	<table><tr><td>1. Health & safety (I)</td><td>4</td><td></td><td>4</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>100</td><td>80%</td></tr><tr><td>2. Cost (C)</td><td></td><td>3</td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>3. Productivity (P)</td><td>3</td><td></td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>4. Environment (E)</td><td></td><td>2</td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr></table> Total Average Risk Value 60%	1. Health & safety (I)	4		4	1	5	125	5	5	100	80%	2. Cost (C)		3	3	1	5	125	5	5	75	60%	3. Productivity (P)	3		3	1	5	125	5	5	75	60%	4. Environment (E)		2	2	1	5	125	5	5	50	40%	Mandatory or as per requirement	Signage required for Location of First Aid Kit, First Aider on site, Location of Fire Fighting Equipment	Emergency Preparedness 1. The Service Provider, Contractor and Suppliers to appoint a competent person to act as emergency controller and/or coordinator. 2. The Service Provider, Contractor and Suppliers to conduct an emergency identification exercise and establish what emergencies (such as health, safety, environmental, third party or community related actions etcetera) could possibly develop. Contractor must then develop detailed contingency plans and emergency procedures, taking into account any emergency plan that the project/site may have in place. 3. The Service Provider, Contractor and Suppliers and the other contractors must hold regular practice drills of contingency plans and emergency procedures to test them and familiarize employees with them. Emergency evacuation points must be available and signage displayed First - Aid 1. The Service Provider, Contractor and Suppliers to provide first-aid equipment and have qualified first-aiders on site as required by General Safety Regulation 3 of the OHSACT. 2. The contingency plan of the Service Provider, Contractor and Suppliers to include arrangements for the speedy and timeously transportation of injured and/or ill person(s) to a medical facility or getting emergency medical support to person(s) who may require it. 3. The Service Provider, Contractor and Suppliers to have firm arrangements with his contractors in place regarding the responsibility of these contractor's first-aid arrangements as well as treatment of injured and/or ill employees. Fire Prevention and Protection The Service Provider, Contractor and Suppliers to ensure that a) Sufficient and suitable storage of flammables is provided; b) employees are trained in the use of the fire fighting equipment and know how to attempt to extinguish a fire; (these employees must be appointed and proof of competency to be available on site. c) A sufficient number of employees are appointed and trained to act as an emergency team to deal with fires and other emergencies; d) Employees are informed regarding emergency evacuation procedures and escape routes this must be included in the induction of all workers and visitors. e) Emergency escape routes are kept clear at all times and clearly marked; f) Roll call is held after evacuation to account for all employees and to ensure that no-one including visitors and disabled persons have been left behind; g) A clearly audible siren or alarm is fitted and regularly tested. if this is not practicable to the site , other method of warning employees must be used, for example whistles.	Service Provider, Contractor and Suppliers
1. Health & safety (I)	4		4	1	5	125	5	5	100	80%																																									
2. Cost (C)		3	3	1	5	125	5	5	75	60%																																									
3. Productivity (P)	3		3	1	5	125	5	5	75	60%																																									
4. Environment (E)		2	2	1	5	125	5	5	50	40%																																									
26	Site security and public protection	1. Public gaining access to the construction site. 2. Theft 3. Vandalism	<table><tr><td>1. Health & safety (I)</td><td>3</td><td></td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>2. Cost (C)</td><td></td><td>3</td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>3. Productivity (P)</td><td>3</td><td></td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>4. Environment (E)</td><td></td><td>2</td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr></table> Total Average Risk Value 55%	1. Health & safety (I)	3		3	1	5	125	5	5	75	60%	2. Cost (C)		3	3	1	5	125	5	5	75	60%	3. Productivity (P)	3		3	1	5	125	5	5	75	60%	4. Environment (E)		2	2	1	5	125	5	5	50	40%	Mandatory or as per requirement	Construction Signage to be available at Site entrance /gate.	1. Service Provider, Contractor and Suppliers to ensure the project is secure at all times. Access control to be maintained and no unauthorized entry to be permitted to the project. 2. When there are no activities on site and no personnel conducting works. The Project has to be left in a safe manner that the public can't gain access and that all hazards are attended to prior vacating the site. 3. Security should be available due to valuable materials and equipment that might be stored on site.	Service Provider, Contractor and Suppliers
1. Health & safety (I)	3		3	1	5	125	5	5	75	60%																																									
2. Cost (C)		3	3	1	5	125	5	5	75	60%																																									
3. Productivity (P)	3		3	1	5	125	5	5	75	60%																																									
4. Environment (E)		2	2	1	5	125	5	5	50	40%																																									
27	Ablution facilities	1. Inadequate provision of welfare facilities may have negative implications on the health of employees and other persons as well as the environment	<table><tr><td>1. Health & safety (I)</td><td>2</td><td></td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td>2. Cost (C)</td><td></td><td>2</td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td>3. Productivity (P)</td><td>1</td><td></td><td>1</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>25</td><td>20%</td></tr><tr><td>4. Environment (E)</td><td></td><td>2</td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr></table> Total Average Risk Value 35%	1. Health & safety (I)	2		2	1	5	125	5	5	50	40%	2. Cost (C)		2	2	1	5	125	5	5	50	40%	3. Productivity (P)	1		1	1	5	125	5	5	25	20%	4. Environment (E)		2	2	1	5	125	5	5	50	40%	Mandatory or as per requirement	Signage required for Men / Ladies bathroom / Changeroom and designated sheltered eating area	Toilets a) Service Provider, Contractor and Suppliers to provide toilets for each sex as required in terms of the National Building Regulations and Construction Regulation 30. b) Chemical toilets are allowed only if they are cleaned on a regular basis by registered contracted company. Toilets have to be provided at a ratio of at least 1 toilet per 30 employees Eating facility / area Service Provider, Contractor and Suppliers to provide some form of eating facility sheltered from the sun, wind and rain must be provided. Living accommodation Where the site is in a remote location and transport to home is not readily available, reasonable and suitable living accommodation must be provided after obtaining of the necessary permission from authorities and adhering to requirements such as Bylaws of the local municipality	Service Provider, Contractor and Suppliers
1. Health & safety (I)	2		2	1	5	125	5	5	50	40%																																									
2. Cost (C)		2	2	1	5	125	5	5	50	40%																																									
3. Productivity (P)	1		1	1	5	125	5	5	25	20%																																									
4. Environment (E)		2	2	1	5	125	5	5	50	40%																																									

28	Safe guarding / Dealing with existing Structures	1. Damage to existing services and structures.	1. Health & safety (H) 2. Cost (C) 3. Productivity (P) 4. Environment (E)	3 3 2 2	1 1 1 1	5 5 5 5	125 125 125 125	5 5 5 5	5 5 5 50	75% 60% 40% 40%	Mandatory or as per requirement		1. Ensure identification off all existing services and structures before commencing with site establishment.	Service Provider, Contractor and Suppliers
				Total Average Risk Value						50%				

31	Temporary electrical equipment/ installations	1. Illegal connections Unsafe electrical installations could result in employees and other persons being electrocuted with subsequent injuries or even fatalities as well as asset damage due to fire 2. Sub standard equipment 3. Poor cable management 4. Incompetent Installer 5. Unauthorised Access to DB's	<table><tr><td>1. Health & safety (I)</td><td>4</td><td></td><td>4</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>100</td><td>80%</td></tr><tr><td>2. Cost (C)</td><td></td><td>3</td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>3. Productivity (P)</td><td></td><td>3</td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>4. Environment (E)</td><td></td><td>2</td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td colspan="10">Total Average Risk Value</td><td>60%</td></tr></table>	1. Health & safety (I)	4		4	1	5	125	5	5	100	80%	2. Cost (C)		3	3	1	5	125	5	5	75	60%	3. Productivity (P)		3	3	1	5	125	5	5	75	60%	4. Environment (E)		2	2	1	5	125	5	5	50	40%	Total Average Risk Value										60%	Mandatory or as per requirement	DB's Must be numbered. Warning signage posted at DB / No Unauthorised entry	1. Any electrical work undertaken as part of the project, including the installation of temporary electricity for construction use shall be in accordance with Construction Regulation 24 and the Electrical Installation Regulations 2. The Service Provider, Contractor and Suppliers to ensure that: - Existing services are to be located and clearly marked before construction commences and during the progress thereof; - Electrical installations and -machinery are sufficiently robust to withstand normal working conditions on site; - Temporary electrical installations must be inspected at least once per week by a competent person and a record of the inspections kept on the occupational health and safety file; 3. Electrician with a Wireman's License must install, commission and inspect all electrical installations. Employee to be authorised, competent and appointed. COC must be available for electrical connections done. 4. All DB's to be locked. Key register to be established and proof of key use to be evident. 5. Lock out procedure to be communicated to all employees exposed. 6. Task Specific Risk assessments to be communicated.	Service Provider, Contractor and Suppliers
1. Health & safety (I)	4		4	1	5	125	5	5	100	80%																																																				
2. Cost (C)		3	3	1	5	125	5	5	75	60%																																																				
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4. Environment (E)		2	2	1	5	125	5	5	50	40%																																																				
Total Average Risk Value										60%																																																				
32	Construction Trades Painting Tiling Paving Brickwork Plastering Ceiling / roof works	1. Exposed to Work at height (From Ladders, Scaffold and MEWP) 2. Use, control and storage of HCS (Paint, Thinner, Silicon, Tile adhesive, Cement, Bonding agents) 3. Use/operating of Small plant / equipment (Compactor, Brick cutter, Concrete Mixer, Tile cutter, Grinders, Skill Saw / jigsaw) 4. Dust 5. Vibrations 6. Noise 7. Use of unsafe hand tools and portable electrical tools 8. Tools, equipment or materials falling from heights	<table><tr><td>1. Health & safety (I)</td><td>4</td><td></td><td>4</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>100</td><td>80%</td></tr><tr><td>2. Cost (C)</td><td></td><td>4</td><td>4</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>100</td><td>80%</td></tr><tr><td>3. Productivity (P)</td><td></td><td>3</td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>4. Environment (E)</td><td></td><td>2</td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td colspan="10">Total Average Risk Value</td><td>65%</td></tr></table>	1. Health & safety (I)	4		4	1	5	125	5	5	100	80%	2. Cost (C)		4	4	1	5	125	5	5	100	80%	3. Productivity (P)		3	3	1	5	125	5	5	75	60%	4. Environment (E)		2	2	1	5	125	5	5	50	40%	Total Average Risk Value										65%	Mandatory or as per requirement		1. All tools, machinery or equipment used in the different trades must be safe to use and be inspected on a daily or weekly basis, all findings must be recorded on a checklist and reported to Construction Manager / Supervisor. 2. Workers operating Small plant or Machinery must be appointed and must have the required skills and knowledge on operating certain plant or machinery. These operators must be medically fit. 3. Workers exposed to work at height , must have a valid medical fitness and work at height training. 4. Scaffold, Ladders and MEWP must be inspected before use. Scaffold erector, Scaffold Inspector, Ladder Inspector and MEWP operator must be appointed with valid competencies 5. Workers must be supplied with the CORRECT minimum required PPE for each specific task. 6. Workers exposed to long periods of vibrations and Noise must take regular breaks or workers to be changed regularly. 7. All trades specific Risk Assessments and Safe working procedures must be communicated to the relevant exposed workers. Proof of communication must be kept. 8. Supervisor / Construction Manager to ensure NO overhead activities from different trades or simultaneous operations from different contractor overhead.	Service Provider, Contractor and Suppliers
1. Health & safety (I)	4		4	1	5	125	5	5	100	80%																																																				
2. Cost (C)		4	4	1	5	125	5	5	100	80%																																																				
3. Productivity (P)		3	3	1	5	125	5	5	75	60%																																																				
4. Environment (E)		2	2	1	5	125	5	5	50	40%																																																				
Total Average Risk Value										65%																																																				
33	Asbestos handling and removal	1. Inhalation of Asbestos fibers. 2. Improper Asbestos removal 3. Incompetent person conducting removal	<table><tr><td>1. Health & safety (I)</td><td>4</td><td></td><td>4</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>100</td><td>80%</td></tr><tr><td>2. Cost (C)</td><td></td><td>5</td><td>5</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>125</td><td>100%</td></tr><tr><td>3. Productivity (P)</td><td></td><td>3</td><td>3</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>75</td><td>60%</td></tr><tr><td>4. Environment (E)</td><td></td><td>2</td><td>2</td><td>1</td><td>5</td><td>125</td><td>5</td><td>5</td><td>50</td><td>40%</td></tr><tr><td colspan="10">Total Average Risk Value</td><td>70%</td></tr></table>	1. Health & safety (I)	4		4	1	5	125	5	5	100	80%	2. Cost (C)		5	5	1	5	125	5	5	125	100%	3. Productivity (P)		3	3	1	5	125	5	5	75	60%	4. Environment (E)		2	2	1	5	125	5	5	50	40%	Total Average Risk Value										70%	Mandatory or as per requirement		1. Risk Assessment and Method statement for Handling of Asbestos to be communicated to the relevant exposed employees. 2. Only registered Contractor will be allowed to removed and dispose Asbestos at a registered (designated) facility - Proof of disposal must be kept on record 3. If Asbestos is noticed on site Department of Labour must be informed. 4. Only workers with the required task specific PPE will be allowed to handle and remove Asbestos 5. Other simultaneously operations in the direct vicinity of Asbestos must be halted / stopped until asbestos has been removed.	Service Provider, Contractor and Suppliers & Registered Competent Asbestos removal contractor
1. Health & safety (I)	4		4	1	5	125	5	5	100	80%																																																				
2. Cost (C)		5	5	1	5	125	5	5	125	100%																																																				
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