

Project			RF0087/2025 - APPOINTMENT OF A CONTRACTOR TO EXECUTE, REPAIR AND COMPLETE THE WATER HEATING SYSTEM AND PROVIDE SECURED SOLAR GEYSER AT MERRYVALE SPECIAL SCHOOL IN THE EASTERN CAPE.			Evaluator Name			BASELINE RISK ASSESSMENT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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1	Site establishment MERRYVALE SS					1. Improper loading and off loading practices 2. Traffic congestion 3. Movement of vehicles and Plant 4. Improper electric installation 5. Use of damaged portable electrical tools and hand tools 6. Dust 7. Clearing of ground (levelling) 8. Social / Community Disruption 9. Contractors / Service Providers working on site without being approved by Client or client representative					1. Health & safety (I)					4					4					1					5					125					5					5					100					80%					Mandatory or as per requirement					Site Specific Construction Sign at site entrance					1. Clear all bystanders away from operations - Barricade area and post warning signage - Only Authorised workers/persons to enter construction area 2. All electrical installations to be conducted by a competent appointed person and COC's to be obtained when necessary. 3. Power tools to be inspected by a competent person, pre-check inspections to be conducted, power tools to be recorded on inspection register 4. Social facilitators to ensure community are aware of Construction work before Site establishment. 5. Only Competent appointed Contractors or Service Providers will be authorised to work on the site. 6. Dust Control measures to be implemented continuously at the site laydown area, watering the areas and roads on site. 7. All operators must be appointed to operate and inspect the specific plant he is competent in operating, Medical fitness and competencies for operators must be valid and available on site. 8. Site Establishment Risk Assessment and Safe working Procedure / Method Statement to be communicated to all workers					Principal Contractor																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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5	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.	Principal Contractor
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%																																																				
6	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	Principal Contractor
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%																																																				
7	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.	Principal Contractor
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%																																																				

8	Stacking and storage of material & Housekeeping	1. Unstable stacking of goods / materials / Unsafe Stacking Procedures 2. Stacking & Storage area not identified and demarcated 3. Pinch Points 4. Environmental contamination from spillages 5. Snakes 6. No clear walkways at stacking and storage areas 7. Unauthorised entry 8. Poor waste removal 9. Unstable Aggregate or Sand	<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></table> <div>Total Average Risk Value</div> <div>55%</div>	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%	Mandatory or as per requirement	Signage Posted at Designated Storage area - Unauthorised entry prohibited	1. Sufficient space of stacking of material to be provided, housekeeping to be maintained and cleaning of areas to be maintained. 2. Stacking and storage areas to be barricaded to prevent unauthorised entry 3. All contaminated ground must be removed and disposed at a registered waste facility. 4. Workers to be aware of snakes, toolbox talks to be done for the awareness of snakes in surrounding area, If snakes are found on site, a snake handler must be contacted to remove snakes safely. 5. All walkways at stacking and storage area must be kept clean and free from tripping hazards 6. Waste must be removed on a regular basis to a registered waste facility, proof must be kept in the safety file on site. 7. Housekeeping on site must be done on a daily basis, all rubble must be removed and placed at the designated waste area. 8. Aggregate or soil should be stacked at a reasonable height and not close to any machinery or equipment. 9. The principal contractor to ensure that: - A competent person is appointed in writing to supervise all stacking and storage on a construction site; - The height of any stack does not exceed 3 times the base unless stepped back at least half the depth of a single container at least every fifth tier or the approval of an inspector of the Department of Labour has been obtained to build the stacks higher with the aid of a machine. (The operator of the machine must be protected against items falling from overhead or off the stack and no items may overhang);	Principal Contractor
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%																																									
9	Offloading construction Materials	1. Tip truck reversing over personnel. 2. Vehicle to vehicle collisions 3. Man machine interaction, 4. Exposure to dust 5. Incompetent Operator 6. Unauthorised to offload 7. Incorrect plant used for offloading	<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> <div>Total Average Risk Value</div> <div>60%</div>	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		1. Trucks to be equipped with reverse sirens. 2. Draft, implement and maintain a proper traffic management plan. 3. Exert dust suppression as far as reasonable. Ensure that the correct/adequate PPE is supplied and employees have received training on the use of them. 4. Flag Person to be available to direct traffic onsite. 5. Correct Plant to be used to offload different materials 6. Plant operator to be appointed with valid competencies to be available on site 7. Suppliers of materials must be authorised to offload materials, All workers, visitors or suppliers must be INDUCTED for the specific site. 8. All offloading of construction materials or equipment must be Supervised and Authorised by Appointed Construction Manager.	Principal Contractor
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%																																									

10	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></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></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></table> <div>Total Average Risk Value</div> <div>60%</div>	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	<p>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.</p> <p>2. The use, inspection and maintenance of portable electrical tools and equipment must be governed by the following:</p> <ul style="list-style-type: none">- 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. <p>3. These equipment -</p> <ul style="list-style-type: none">- 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. <p>4. The following requirements to be applied with when portable lights are utilised (such as for illumination at stop-go points at night):</p> <ul style="list-style-type: none">- 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. <p>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</p>	Principal Contractor	
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%																																										
11	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></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></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></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></table> <div>Total Average Risk Value</div> <div>55%</div>	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%	Mandatory or as per requirement	<p>1. The principal contractor to ensure that:</p> <ul style="list-style-type: none">- No person is required or permitted to work in a place where there is the danger of fire or an explosion due to flammable vapours 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/vapours 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 <p>2. All flammable materials / containers must be clearly marked/labelled</p>	Principal Contractor
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%																																										

12	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></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></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></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></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></table> <div>Total Average Risk Value</div> <div>55%</div>	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%	Mandatory or as per requirement	Hazardous Chemical Substance storage area must have warning signs (No Smoking, Hazardous or Flammable materials)	1. The principal contractor 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.	Principal Contractor
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%																																													
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4. Environment (E)			3		3	1	5	125	5	5	75	60%																																												
13	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></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></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></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></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></table> <div>Total Average Risk Value</div> <div>35%</div>	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%	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	Principal Contractor
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%																																												

14	Working on Heights (Work in fall risk positions)	<div>1. Inadequate fall protection</div> <div>2. Employees not medically fit to work at height</div> <div>3. Workers not trained to work at height</div> <div>4. Falling objects</div> <div>5. Workers falling</div> <div>6. Inadequate / unsafe or damaged fall prevention equipment used</div> <div>7. Inclement Weather</div>	<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></table> <div>Total Average Risk Value</div> <div>75%</div>	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%	Mandatory or as per requirement	<div>1. Designate a competent person to be responsible for the preparation of a fall protection plan.</div> <div>2. Ensure that the Fall protection plan is implemented, amended and maintained. - FPP must be developed by a competent / appointed person, proof of competency must be available on site.</div> <div>3. Take steps to ensure continued adherence to the fall protection plan.</div> <div>4. The fall protection plan must include but not limited: A Risk assessment of all work carried out from a fall risk position, procedures and methods used to address all the risks identified.</div> <div>5. Appointed 16 (2) to ensure that employees comply with Construction regulations 10 Fall protection.</div> <div>6. As far as is practicable, any person working in a fall risk position will work from a stable platform, ladder or other device that is at least as safe as if he or she is working at ground level and whilst working in this position be wearing suitable fall arrest equipment to prevent the person falling from the platform, ladder or other device utilised. This fall arrest equipment will be, as far as is possible, secured to a point away from the edge over which the person might fall and the lanyard must be of such a length and strength that the person will not be able to move over the edge. Alternatively any platform, slab, deck or surface forming an edge over which a person may fall may be fitted with suitable guard rails at two different heights as prescribed in SANS 10085 code of practice for the design, erection, use and inspection of access scaffolding.</div> <div>7. Employees working at height must be provided with a full body harness that will be worn and attached above the wearer's head at all times and the lanyard must be fitted with a shock absorbing device or the person must be attached to a fall arrest system that is approved by the Client.</div> <div>8. If no edge protection is not practicable or employee does not have a secured / approved anchor point for a lifeline a suitable catch net, which is able to sustain the weight of at least the average person working in a fall risk position, will be erected</div> <div>9. Employees working in a fall risk position will be trained to do this safely and without risk to their or other person's health and safety. Proof of competency must be available in safety file</div> <div>10. Where work on roofs is carried out, the risk assessment must take into account the possibility of persons falling through fragile material and openings in the roof.</div> <div>11. physical and psychological fitness of employees working fall risk positions (Medical fitness to work at height) must be valid and available on site.</div> <div>12. FPP, Risk Assessment and Safe working Procedures must be communicated to all workers working in a fall risk position.</div>	Principal Contractor
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%																																								
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4. Environment (E)		2	2	1	5	125	5	5	50	40%																																								
15	Exposure to poisonous / Venomous or other dangerous animals, reptiles or insects	<div>1. Venomous snakes, insects / spiders in bushes, stacking areas and other confined spaces</div> <div>2. Poisonous insects</div> <div>3. Insects, reptiles and other animal bites, stings that causes allergic reactions</div>	<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> <div>Total Average Risk Value</div> <div>60%</div>	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	<div>1. The principal contractor to ensure that the following are duly adhered to:</div> <div>- the emergency procedure to be expanded to provide for the effective treatment of employees or other persons visiting exposed to bites or stings from poisonous animals and insects, i.e. the contact details of the nearest medical unit that could treat employees exposed to bites or stings be obtained and arrangements be made with this service provider on the procedures to be followed to ensure swift response when required;</div> <div>- confirmation to be obtained or made available from the nearest medical unit that they have anti venom reserved to treat employees or other persons visiting that may be exposed to snake bites or scorpion stings;</div> <div>- competent / appointed first aiders to be available to facilitate the treatment of employees or other persons visiting exposed to stings or bites;</div> <div>- the potential exposure posed by poisonous or venomous animals or insects and awareness thereof to be discussed with all employees as part of the toolbox talks and general awareness training and other persons visiting as part of the pre-site visit induction process</div> <div>2. If Snakes are located on site contact nears snake handler to assist with removal of the snake. Do not attempt to remove snake if not trained.</div> <div>3. Emergency contacts to be freely available on site and in safety file.</div>	Principal Contractor
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%																																								
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17	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	1. Health & safety (I)	4		4	1	5	125	5	5	100	80%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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18	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 stabilise 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> <div>Total Average Risk Value</div> <div>60%</div>	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 principal contractor to appoint a competent person to act as emergency controller and/or coordinator. 2. The principal contractor 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 principal contractor and the other contractors must hold regular practice drills of contingency plans and emergency procedures to test them and familiarise employees with them. Emergency evacuation points must be available and signage displayed First - Aid 1. The principal contractor 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 principal contractor 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 principal contractor 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 principal contractor 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.	Principal Contractor
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%																																									
19	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> <div>Total Average Risk Value</div> <div>55%</div>	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. Principal contractor to ensure the project is secure at all times. Access control to be maintained and no unauthorised 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.	Principal Contractor
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%																																									
20	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> <div>Total Average Risk Value</div> <div>35%</div>	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) Principal Contractor 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 Principal Contractor 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	Principal Contractor
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%																																									

21	Safe guarding / Dealing with existing Structures	1. Damage to existing services and structures.	1. Health & safety (I)	3		3	1	5	125	5	5	75	60%	Mandatory or as per requirement	1. Ensure identification off all existing services and structures before commencing with site establishment.	Principal Contractor
			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)		2	2	1	5	125	5	5	50	40%			
			Total Average Risk Value										50%			

22	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 principal contractor 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 Licence 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.	Principal Contractor
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%																																																				
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Total Average Risk Value										60%																																																				