



**ETHEKWINI MUNICIPALITY  
Occupational Health & Safety Directorate**

**SITE BASED BASELINE RISK ASSESSMENT**

**Construction Regulations 5.1(a)**

Document Title	Baseline Risk Assessment
Client	EThekweni Municipality-Engineering: Roads and stormwater maintenance Directorate.
Project	Rates Based Contract for Maintenance repairs to roads and Stormwater Infrastructure as and when required basis in the areas located within the South-central region of EThekweni Municipality for 36 months.
Contract Number	1M 35892
Revision	00
Date	03 June 2026
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## **BASELINE RISK ASSESSMENT**

**1.INTRODUCTION:** In accordance with the Occupational Health and Safety Act, (Act 85 of 1993) the Legislator places specific requirements on an Employer. One of these is prescribed in Section 8(i) of the Act where it requires the Employer to ascertain the risks and dangers which may occur within the workplace or section of the workplace and then goes on to establish working procedures or practices.

**2.PURPOSE:** This is conducted to create a benchmark of the potential risks that apply to the whole project or business operation.

**3.SCOPE:** This assessment could be approached on a site, regional or national level concerning any facet of the business operation or process or activity.

### **4.REVIEW AND MONITORING PLAN**

The risk assessment form part of the health and safety plan to be applied on the site and must include the following:

- (a) The identification of the risk and hazards to which persons may be exposed to.
- (b) An analysis and evaluation of the risk and hazards identified based on a documented method.

### **5. REFERENCES**

- (a) Tender document number 1M-35892
- (b) Occupational Health & Safety Act and its Regulation

**PLEASE NOTE THAT THIS IS A BASELINE RISK ASSESSMENT AND NOT A DETAILED RISK ASSESSMENT OF ALL ANTICIPATED ACTIVITIES ON SITE.**

## **SCOPE OF WORK**

### **This contract includes the following work:**

1. Preparation work as requested by the Engineer.
2. Raising or lowering of services where necessary.
3. Major and minor road patching repairs in roadways and sidewalks, including pothole repairs and holding/maintenance measures.
4. Supply and repair existing stormwater infrastructure precast products.
5. Repair and supply of steel guardrail elements
6. Cleaning of the site on completion of each works order.
7. Cleaning of the stormwater catch pits, outlets and pipes.
8. Repair minor protection structures
9. Re-instate existing or repair fencing
10. Provision of plant and labour

### **The following activities were assessed:**

- (a) Access to the site
- (b) Material delivery to the site
- (c) Traffic management.
- (d) Busy residential/commercial/Industrial areas.
- (e) Removal of damaged concrete slabs, supply and installation of new concrete slabs.
- (f) Removal of concrete precast products and installation of the new ones.
- (g) Manual moving of precast products.
- (h) Protection of existing services.
- (i) Construction mobile plant and machinery.
- (j) Breaking and removal of existing asphalt surface on the roadway and sidewalk.
- (k) Construction of asphalt wearing course.
- (l) Installation of kerbs.
- (m) Application of a weed killer
- (k) Laying and resetting of paving bricks.
- (l) Trench reinstatement.
- (m) Cleaning of stormwater system/inlets and pipe culverts.
- (n) Installation of guardrails and handrails.

- (o) Construction of manholes and appurtenant drainage works.
- (p) Provision of pipe bedding, laying of pipe and backfilling.
- (q) Road markings.
- (r) Protection works.
- (s) Removal of dumped material off site.
- (t) Provision of labour and supervision.

# 1. RISK ESTIMATION AND EVALUATION

## RISK CLASSIFICATION USING A RISK SCORE TECHNIQUE

<b>Exposure (E) How frequently does the hazardous event occur</b>		<b>Risk level</b>
Continuously .....		10
Frequently (daily) .....		6
Occasionally (weekly) .....		3
Unusually (monthly) .....		2
Rarely (few a year) .....		1
<b>Probability (P) The probability of a loss when the hazardous event does occur</b>		<b>Risk level</b>
Frequent (happens often) .....		10
Probable (quite possible) .....		6
Occasional (unusual, but possible) .....		3
Remotely possible (has happened somewhere) .....		1
Improbable (practically impossible) .....		0.5
<b>Severity (S) Consequences of the hazardous event</b>		<b>Risk level</b>
<b>Catastrophic</b> many fatalities; or interruption of longer than 2 weeks; or asset or environmental damage (or both) exceeding R100m .....		100
<b>Disaster</b> (few fatalities; or interruption between one and 2 weeks; or asset or environmental damage (or both) exceeding R10m) .....		40
<b>Very serious</b> (one fatality; or interruption of 6 days; or asset or environmental damage (or both) exceeding R100,000 .....		7
<b>Important</b> (temporary disability; or interruption between 6 and 24 hours; or damage exceeding R10,000 .....		3
<b>Noticeable</b> (first aid needed; or interruption of less than 6 hours; damage exceeding R1000) .....		1
<b>Risk classification (Risk score = E x P x S )</b>		
<b>Risk score</b>		<b>Risk level</b>
Over 400-----5	Very high risk – discontinue operation or activity	
200 to 400 -----4	High risk – immediate correction needed	
70 to 200-----3	Substantial risk – correction needed	
20 to 70-----2	Possible risk – attention needed	
Under 20 -----1	Risk accepted	

**BASELINE RISK ASSESSMENT WORKSHEET**

	Activity	Hazard	Risk	Risk Evaluation			Risk Score	Risk level
				E	P	S		
<b>1</b>	<b>Access to the site</b>							
	<ul style="list-style-type: none"> <li>Traveling to and from site in a vehicle.</li> </ul>	<ul style="list-style-type: none"> <li>Safety belts not worn when traveling in, or operating a vehicle.</li> <li>Vehicle not equipped with safety belts for all passengers.</li> <li>Over speeding of vehicles.</li> <li>Driving on public roads.</li> </ul>	<ul style="list-style-type: none"> <li>Injuries caused when in vehicle accident.</li> <li>Fatalities when in vehicle accident</li> <li>Risk of personnel being injured by over speeding vehicles.</li> <li>Involved in accident.</li> </ul>	6	6	7	252	4
<b>2</b>	<b>Material delivery to the site</b>							
	<ul style="list-style-type: none"> <li>Loading and offloading of heavy equipment manually.</li> </ul>	<ul style="list-style-type: none"> <li>Employee being struck by the load.</li> <li>Heavy lifting.</li> </ul>	<ul style="list-style-type: none"> <li>Back strain</li> <li>Skeletal damage</li> <li>Head, hand, and foot injuries.</li> <li>Serious injury</li> </ul>	3	6	7	126	3
<b>3</b>	<b>Traffic management on site</b>							
	<ul style="list-style-type: none"> <li>The use of construction vehicle on the</li> </ul>	<ul style="list-style-type: none"> <li>Poor/ no traffic management</li> </ul>	<ul style="list-style-type: none"> <li>Accidents, death, broken bones, damage to</li> </ul>	6	6	7	252	4

	<p>public and streets</p> <ul style="list-style-type: none"> <li>• Execution of activities on the road in line with the scope of work.</li> <li>• Exposed group/employees</li> <li>• Placing of temporary traffic warning signs.</li> </ul>	<p>plan in place</p> <ul style="list-style-type: none"> <li>• Lack of traffic management training</li> <li>• Unroadworthy plant and vehicle</li> <li>• Collision with other vehicles</li> <li>• Workers exposed to high traffic volume.</li> <li>• Personnel movement and vehicles</li> <li>• Signs not visible to the road users.</li> <li>• Signs being placed at an unreasonable distance.</li> <li>• Personnel in charge of traffic control not familiar with the traffic management plan.</li> </ul>	<p>property</p> <ul style="list-style-type: none"> <li>• Noncompliance with the National Road Traffic Act, Council Road Traffic bi-laws and other applicable Regulations</li> <li>• Blockage/ inconvenient access to industrial/ commercial areas</li> <li>• Personnel are at risk of being bumped by a vehicle or an Accident</li> <li>• It may cause injuries possibility of fatalities.</li> </ul>					
<b>4</b>	<b>Busy residential/ commercial/ industrial areas</b>							

	<ul style="list-style-type: none"> <li>Working next to residential, commercial, industrial areas</li> </ul>	<ul style="list-style-type: none"> <li>Public exposure to construction activities.</li> <li>Destruction of businesses and services in the area.</li> <li>Other activities in the areas</li> <li>Strikes in the area</li> </ul>	<ul style="list-style-type: none"> <li>Injuries public and employees, broken bones, damage to property, death,</li> <li>Production loss, disturbance of personnel activities</li> <li>Fights, lawsuits, disagreement</li> <li>Damage to property, injuries to employees</li> </ul>	6	6	7	252	4
<b>5</b>	<b>Removal of damaged concrete slabs, Supply and installation of new concrete slabs.</b>							
	<ul style="list-style-type: none"> <li>Preparing foundation.</li> <li>Compacting</li> <li>Steel fixing during the installation of slabs.</li> <li>Pouring of ready-mix concrete</li> <li>Floating of the slab.</li> <li>Saw cutting the existing slab.</li> <li>Breaking the existing slab.</li> </ul>	<ul style="list-style-type: none"> <li>Dust</li> <li>Faulty hand tools</li> <li>Manual handling of steel/ sharp points</li> <li>Cement contact with body</li> <li>Over bending</li> <li>Noise</li> <li>Vibration.</li> </ul>	<ul style="list-style-type: none"> <li>Lung disease, eye irritation</li> <li>Injury to hands</li> <li>Skeletal injuries</li> <li>NIHL.</li> <li>Muscular pains.</li> </ul>	6	6	3	108	3
<b>6</b>	<b>Removal of damaged concrete precast products and installation of the new ones.</b>							

	<ul style="list-style-type: none"> <li>• Lifting of heavy objects by hands.</li> <li>• Concrete precast products repairs.</li> <li>• Mixing cement on site for infrastructure repairs.</li> <li>• Saw cutting during repairs.</li> <li>• Breaking of the precast product to be repaired.</li> <li>• Compacting.</li> <li>• Floating of the concrete</li> <li>• Brickwork during lowering and raising of double or single splayed storm water inlets.</li> </ul>	<ul style="list-style-type: none"> <li>• Unsafe lifting methodology.</li> <li>• Damage to underground services</li> <li>• Cement dust inhalation.</li> <li>• Dust.</li> <li>• Faulty machine.</li> <li>• Unguarded blade.</li> <li>• Roller operated by an incompetent person</li> <li>• Skin contact.</li> </ul>	<ul style="list-style-type: none"> <li>• Feet and finger crushed.</li> <li>• Service delivery interruption.</li> <li>• Respiratory problems.</li> <li>• Injuries.</li> <li>• Lung disease, eye irritation.</li> </ul>	6	6	3	108	3
<b>7</b>	<b>Manual moving of precast product</b>							
	<ul style="list-style-type: none"> <li>• Manual handling and moving of precast product using wheelbarrows,</li> </ul>	<ul style="list-style-type: none"> <li>• Unsafe wheelbarrows,</li> <li>• Manual handling of precast product</li> <li>• Lifting of excess/ heavy</li> </ul>	<ul style="list-style-type: none"> <li>• Injury to hands/ toes</li> <li>• Skeletal injuries</li> <li>• Slippery surface</li> <li>• Tripping hazards</li> <li>• Ergonomic risks</li> </ul>	3	3	3	27	2

		<ul style="list-style-type: none"> <li>load</li> <li>Ergonomics hazards</li> </ul>							
<b>8</b>	<b>Protection of existing services</b>								
	<ul style="list-style-type: none"> <li>Working in the presence of watermains, sewer, stormwater, electrical cables, telkom/ neotel cables , gas/petroleum pipeline.</li> </ul>	<ul style="list-style-type: none"> <li>Disturbance of the services,</li> <li>Sewer spillage,</li> <li>Blockage of sewer and stormwater lines</li> <li>Exposure to biological agents</li> <li>Electrocution</li> <li>Damage to Telkom/ neotel cables, stormwater, sewer</li> </ul>	<ul style="list-style-type: none"> <li>No water and electricity, community strikes,</li> <li>Health hazards</li> <li>Environmental hazards</li> <li>Burns, death</li> <li>Financial costs for replacing damaged cables</li> </ul>	6	6	7	252	4	
<b>9</b>	<b>Construction mobile plant and machinery</b>								
	<ul style="list-style-type: none"> <li>Use of construction vehicles and mobile plants and equipment</li> </ul>	<ul style="list-style-type: none"> <li>Unsafe construction plants and equipment</li> <li>Incompetent drivers/ operators</li> <li>Uneven surface</li> <li>Equipment/</li> </ul>	<ul style="list-style-type: none"> <li>Accidents. Property damage. Noncompliance with DMR. Noncompliance with stipulated safe working load.</li> <li>Capsizing of</li> </ul>	6	6	7	252	4	

		<p>machinery failure</p> <ul style="list-style-type: none"> <li>• Running out of control</li> <li>• Noise</li> <li>• Vibration</li> <li>• Oil Spillage</li> <li>• Dust</li> </ul>	<p>mobile construction plants. Jammed construction mobile plants, death</p> <ul style="list-style-type: none"> <li>• Injury to employees and community, death, loss of limb/ disablement</li> <li>• Damage to property</li> <li>• Noise induced hearing loss</li> <li>• Muscular pains, kidney damage,</li> <li>• Environmental contamination</li> <li>• Lung disease</li> </ul>							
<b>10</b>	<b>Breaking and removal of existing asphalt surface on the roadway and sidewalk.</b>									
	<ul style="list-style-type: none"> <li>• Use of a breaker and a saw cutting machine.</li> </ul>	<ul style="list-style-type: none"> <li>• Defective machine.</li> <li>• Incorrect operating methodology/ breaker operated by an incompetent</li> </ul>	<ul style="list-style-type: none"> <li>• Injury to employees.</li> <li>• Muscular pains, kidney damage,</li> <li>• Noise induced hearing loss.</li> <li>• Skin irritation.</li> </ul>	3	6	7	126	3		

		<ul style="list-style-type: none"> <li>person.</li> <li>• Prolonged exposure to hot weather and sun.</li> <li>• Pointed objects e.g. wires, nails, crusher and glasses.</li> <li>• Vibration.</li> <li>• Noise.</li> </ul>						
<b>11</b>	<b>Construction of asphalt wearing course.</b>							
	<ul style="list-style-type: none"> <li>• Supply and lay asphalt wearing course.</li> <li>• Cleaning/sweeping of road before applying tack coat.</li> <li>• Application of tack coat.</li> <li>• Using hand tools during raking of asphalt.</li> <li>• Milling</li> <li>• Compaction.</li> <li>• Saw cutting.</li> <li>• Breaking of existing asphalt surface.</li> </ul>	<ul style="list-style-type: none"> <li>• Contact with hot asphalt.</li> <li>• Dust accumulation.</li> <li>• Faulty hand tools.</li> <li>• Contact with tack coat.</li> <li>• Bending.</li> <li>• Incompetent driver/operator.</li> <li>• Vibration</li> <li>• Noise</li> <li>• Fumes</li> </ul>	<ul style="list-style-type: none"> <li>• Burns, skin infections.</li> <li>• Lung disease, eye irritation.</li> <li>• Injuries,</li> <li>• Skin irritation.</li> <li>• Environmental contamination</li> <li>• Contamination of the nearest commercial buildings</li> <li>• Back strain.</li> <li>• Accident due to collision.</li> <li>• Fatigue.</li> <li>• Kidney damage.</li> <li>Muscle/ body/</li> </ul>	6	6	3	108	3

			<ul style="list-style-type: none"> <li>joint pain</li> <li>Noise induced hearing loss</li> <li>Breathing/ respiratory diseases.</li> </ul>					
<b>12</b>	<b>Installation of kerbs</b>							
	<ul style="list-style-type: none"> <li>Breaking, removal and installation of kerbs.</li> <li>Formwork preparation using timber.</li> <li>Handling and floating of concrete during construction of channel.</li> </ul>	<ul style="list-style-type: none"> <li>Manual handling of kerbs</li> <li>Unsafe tools</li> <li>Ergonomic hazards</li> <li>Noise</li> <li>Dust</li> <li>Cutting</li> </ul>	<ul style="list-style-type: none"> <li>Skeletal injuries. Injuries to hands and toes</li> <li>Ergonomic risks</li> <li>NIHL</li> <li>Respiratory problem</li> <li>Backache</li> </ul>	3	3	3	27	2
<b>13</b>	<b>Application of a weed killer</b>							
	<ul style="list-style-type: none"> <li>Application of a weed killer</li> </ul>	<ul style="list-style-type: none"> <li>Exposure to hcs.</li> <li>Hcs in contact with skin.</li> <li>Inhalation of HCS fumes.</li> <li>Exposure to moving vehicles.</li> </ul>	<ul style="list-style-type: none"> <li>Respiratory problems.</li> <li>Skin irritation.</li> <li>Burns.</li> <li>Chest pains.</li> <li>Accidents.</li> </ul>	3	6	3	54	2
<b>14</b>	<b>Laying and resetting of paving bricks</b>							
	<ul style="list-style-type: none"> <li>Cutting paving</li> </ul>	<ul style="list-style-type: none"> <li>Unsafe tools</li> </ul>	<ul style="list-style-type: none"> <li>Backache.</li> </ul>	6	6	3	108	3

	bricks using a grinder.	<ul style="list-style-type: none"> <li>Ergonomic hazards</li> <li>Manual handling of paving brick</li> <li>Defective grinder machine.</li> </ul>	<ul style="list-style-type: none"> <li>Injuries to hands and toes</li> <li>Ergonomic risks</li> <li>Injury to employees.</li> </ul>					
<b>15</b>	<b>Trench reinstatement</b>							
	<ul style="list-style-type: none"> <li>Laying of imported material.</li> <li>Compaction</li> </ul>	<ul style="list-style-type: none"> <li>Traffic accidents on site when transporting materials.</li> <li>Reversing of trucks and mobile plant.</li> <li>Dust inhalation.</li> <li>Incompetent driver/operator</li> <li>Dust</li> <li>Vibration</li> <li>Noise</li> </ul>	<ul style="list-style-type: none"> <li>Damage to Property.</li> <li>Respiratory failure</li> <li>Fatigue. Kidney damage. Muscle/body/ joint pain</li> <li>Noise induced hearing loss</li> <li>Burns, skin infections</li> <li>Breathing/respiratory diseases</li> </ul>	3	3	3	27	2
<b>16</b>	<b>Cleaning of stormwater system/inlets and pipe culverts</b>							
	<ul style="list-style-type: none"> <li>Opening of heavy stormwater lids.</li> <li>Entering stormwater</li> </ul>	<ul style="list-style-type: none"> <li>Manual lifting.</li> <li>Poor access which may lead to trip</li> </ul>	<ul style="list-style-type: none"> <li>Backache.</li> <li>Fatigue, Back, shoulder, neck, foot injuries.</li> </ul>	3	6	3	54	2

	<ul style="list-style-type: none"> <li>inlets.</li> <li>Use of high-pressure water jetting machine.</li> <li>Cleaning of stormwater system.</li> <li>Manual clearing of stormwater inlets.</li> </ul>	<ul style="list-style-type: none"> <li>and fall.</li> <li>Defective machine.</li> <li>Exposure to bad fumes, hazardous/toxic products</li> <li>First time operator.</li> <li>Defective hand tools.</li> </ul>	<ul style="list-style-type: none"> <li>Personal injuries.</li> <li>Respiratory problems.</li> <li>Injuries.</li> <li>Hand injuries.</li> </ul>							
<b>17</b>	<b>Installation of guardrails and handrails.</b>									
	<ul style="list-style-type: none"> <li>Manual digging for guardrails and handrail posts</li> <li>Installation of guardrails and handrail posts</li> <li>Mixing and floating of cement.</li> <li>Installation of handrails and guardrail panels.</li> <li>Drilling and aligning.</li> </ul>	<ul style="list-style-type: none"> <li>Faulty hand tools.</li> <li>Handling and lifting of heavy objects.</li> <li>Skin contacts with cement.</li> <li>Dust</li> <li>Unsafe drilling machine</li> <li>Bending.</li> <li>Working on a stepladder.</li> </ul>	<ul style="list-style-type: none"> <li>Hand injuries.</li> <li>Environmental contamination</li> <li>Lung disease, eye irritation.</li> <li>Noise induced hearing loss</li> <li>Burns, skin infections</li> <li>Breathing/respiratory diseases.</li> <li>Back strain.</li> <li>Trip and fall.</li> </ul>	6	6	3	108	3		
<b>18</b>	<b>Construction of manholes and appurtenant drainage works.</b>									
	<ul style="list-style-type: none"> <li>Casting and floating of concrete during construction of</li> </ul>	<ul style="list-style-type: none"> <li>Collapsing of trenches.</li> <li>Unsafe access</li> </ul>	<ul style="list-style-type: none"> <li>Collapsing of trench walls</li> <li>Death,</li> </ul>	6	6	7	252	4		

	<p>stormwater systems.</p> <ul style="list-style-type: none"> <li>• Excavation above 1m deep using mobile plant</li> <li>• Preparation and laying of concrete pipes using a lifting equipment.</li> <li>• Construction of above 1m deep manhole using cement, blocks, hand tools and concrete manhole rings/ cover</li> <li>• Connection of the stormwater pipes into the existing stormwater drainage system.</li> <li>• Kerbs, haunching and channel.</li> <li>• Handling and floating of concrete during construction of channel.</li> <li>• Raising/lowering</li> </ul>	<p>to trench</p> <ul style="list-style-type: none"> <li>• Unprotected trenches</li> <li>• People exposure to excavations</li> <li>• Unsafe lifting devices</li> <li>• Incompetent lifting machinery operator</li> <li>• Equipment failure</li> <li>• Overloading of equipment/ machinery</li> <li>• Working/ operating equipment too close to the excavation</li> <li>• Contact with and inhalation of cement dust</li> <li>• Manual handling of heavy manhole rings and covers</li> </ul>	<p>dislocation, trauma/ panic attack</p> <ul style="list-style-type: none"> <li>• Broken bone, dislocation,</li> <li>• Falling into excavation.</li> <li>• Injury to body. Accidents. Property Damage. Noncompliance with DMR. Noncompliance with stipulated safe working load.</li> <li>• Falling into excavation. Property damage.</li> <li>• Respiratory diseases. Skin disease/ irritation</li> <li>• Back/ spine problems. Possible of pinch. Skeletal injuries. Injury to hands and toes.</li> </ul>					
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	of existing stormwater/sewer manholes, valve cover, and Telkom manholes.	<ul style="list-style-type: none"> <li>• Incorrect connection of stormwater pipes.</li> <li>• Manual Handling and Ergonomic Strain</li> <li>• Incorrect connection of stormwater pipes.</li> <li>• Exposure to toxic gases (e.g., methane, hydrogen sulfide), low oxygen levels.</li> <li>• Confined Space Entry.</li> <li>• Falls into Open Manholes.</li> </ul>	<ul style="list-style-type: none"> <li>• Destruction/blockage of stormwater drainage system.</li> <li>• Back injuries, muscle strain from lifting heavy covers or adjusting frames.</li> <li>• Destruction/blockage of stormwater drainage system.</li> <li>• Serious injury or fatality from falling into uncovered or improperly secured manholes.</li> </ul>						
<b>19</b>	<b>Provision of pipe bedding, laying of pipe and backfilling.</b>								
	<ul style="list-style-type: none"> <li>• Levelling</li> <li>• Compaction</li> <li>• Transportation of imported material</li> </ul>	<ul style="list-style-type: none"> <li>• Traffic accidents on site when transporting materials.</li> </ul>	<ul style="list-style-type: none"> <li>• Damage to Property.</li> <li>• Respiratory failure</li> <li>• Fatigue. Kidney</li> </ul>	7	6	7	252	4	

	<ul style="list-style-type: none"> <li>• Provision of clean coarse sand for pipe trench bedding from commercial source.</li> <li>• Provision of 19mm stone material for pipe bedding.</li> <li>• Provision and laying of geofabric.</li> <li>• Offloading and laying of pipe.</li> </ul>	<ul style="list-style-type: none"> <li>• Reversing of trucks and mobile plant.</li> <li>• Dust inhalation.</li> <li>• Incompetent driver/operator</li> <li>• Dust</li> <li>• Vibration</li> <li>• Noise</li> <li>• Faulty hand tools</li> <li>• Bending and lifting.</li> </ul>	<ul style="list-style-type: none"> <li>• damage. Muscle/body/ joint pain</li> <li>• Noise induced hearing loss</li> <li>• Skin irritation</li> <li>• Breathing/respiratory diseases</li> <li>• Hand Injuries.</li> <li>• Backache.</li> </ul>					
<b>20</b>	<b>Road markings</b>							
	<ul style="list-style-type: none"> <li>• Cleaning the area to be painted.</li> <li>• Painting using a retro-reflective paint and brush.</li> <li>• Cleaning of brushes using a thinner.</li> </ul>	<ul style="list-style-type: none"> <li>• Dust accumulation.</li> <li>• Paint in contact with skin.</li> <li>• Thinners in contact with skin.</li> <li>• Fire.</li> <li>• Inhalation of HCS fumes.</li> <li>• Exposure to moving vehicles.</li> </ul>	<ul style="list-style-type: none"> <li>• Respiratory problems.</li> <li>• Skin irritation.</li> <li>• Burns.</li> <li>• Chest pains.</li> <li>• Accidents.</li> </ul>	6	6	7	252	4

21	Protection works							
	<ul style="list-style-type: none"> <li>• Ground preparation for protection works foundation.</li> <li>• Stabilizing for protection works foundation.</li> <li>• Working with wires during the installation of gabion baskets and fencing.</li> <li>• Packing of stones within the baskets.</li> <li>• Manual digging for fence post.</li> </ul>	<ul style="list-style-type: none"> <li>• Unsafe use of a pick or a shovel.</li> <li>• Moving machinery.</li> <li>• Faulty hand tools.</li> <li>• Unstable embankment.</li> <li>• Noise.</li> <li>• Underground services.</li> <li>• Pinch point, sharp and protruding edges,</li> <li>• Substandard working methodology, lack of supervision.</li> <li>• Fingers trapped in between the rocks.</li> <li>• Bending.</li> </ul>	<ul style="list-style-type: none"> <li>• Injury to employees</li> <li>• Struck by moving machinery</li> <li>• Exposure to excessive noise</li> <li>• Embankment collapse.</li> <li>• Damage to services.</li> <li>• Fatality</li> <li>• Unsafe body posture which may results in back strains,</li> <li>• Multiple injuries.</li> <li>• Injury to fingers.</li> <li>• Back strain.</li> </ul>	6	6	7	252	4
22	Removal of dumped material off site							
	<ul style="list-style-type: none"> <li>• Manual clearing of the site.</li> </ul>	<ul style="list-style-type: none"> <li>• Rubble existing on site</li> <li>• Manual</li> </ul>	<ul style="list-style-type: none"> <li>• Backache.</li> <li>• Fine</li> </ul>	6	6	3	108	3

		<ul style="list-style-type: none"> <li>handling of heavy objects</li> <li>Illegal dumping.</li> </ul>							
<b>23</b>	<b>Provision of labour and supervision</b>								
	<ul style="list-style-type: none"> <li>Recruitment of employees.</li> <li>Continuous supervision on site.</li> </ul>	<ul style="list-style-type: none"> <li>Community members not happy about the local labour being recruited.</li> <li>Delays on services delivery or work to be executed.</li> </ul>	<ul style="list-style-type: none"> <li>Strikes which may lead to physical assaults and damage to company property.</li> <li>Application of penalties to the contractor by the client for failing to deliver on time.</li> </ul>	2	6	3	36		2