

Risk Assessment For kerbs stones, Wheel Stopper And Paving interlock

Item	Activities	Hazard/ Risk	Who is at Risk	Risk Rating			Necessary Control Measures	Action By	Residual Risk		
				S	F	Rating			S	F	Rating
Site establishment											
1	Installation of kerbs stones, wheel stopper and paving interlock	Slips, trips and falls during paving works Dehydration due to exposure to sunlight Fatality/ Injuries due to collision of equipment Fuel , oil spillage and Dust pollution	<ul style="list-style-type: none"> General site workers General site staff Site visitors 	4	3	11	<ul style="list-style-type: none"> Job shall be carried out with an approved Method Statement and work notification A Job safety Analysis shall be done and communicated to operatives prior to start activity. HSE induction, Craft Trainings. Adequate communication of Method Statement & Risk assessment to work force Adequate competent supervision. Always keep safe distance with the machine while working. Deploy banks man / flag man for reversing operations. Identify all underground utilities and protect them. Isolation of the work area by safety barricade and warning signs to stop unauthorized Entry place. Provide competent operator & proper maintenance, service etc. for the Plant/ equipment Enforce spill control and Spill kit made available. Arrange water sprinkling for dust suppression Necessary PPE must be worn by all workers, hard hat, reflective jacket, hand gloves, coverall, safety glasses & nose mask. 	Project Manager Site Engineer. HSE	4	1	4
2	Manual Handling during installation of kerbstones, interlock and wheel stopper	Strained muscle and torn ligaments, Personal injury, Back injuries, crushing, hernia Personal injury, Back injuries, crushing, hernia	<ul style="list-style-type: none"> General site Workers General site staff Site visitors 	4	2	8	<ul style="list-style-type: none"> Ensure Job safety analysis (JSA) is completed Use mechanical means Where possible, i.e. trolleys, forklifts etc. A Manual Handling Assessment shall be implemented to identify the precaution necessary to ensure personnel are not injured. Manual Handling training shall be implemented 	Project Manager Site Engineer. HSE	4	1	4
4	Access and Egress to the work area.	Obstructing/Blocking the access and egress No proper access , ramps or proper signs	<ul style="list-style-type: none"> General site workers General site staff Site visitors 	4	3	12	<ul style="list-style-type: none"> Adequate access and Egress must be provided. Access shall be checked and inspected on a regular basis All access and egress points to the site should be 	HSE	4	1	4

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							<p>fully indicated by appropriate signs.</p> <ul style="list-style-type: none"> All emergency escape routes should be cleared at all times and should be marked clearly All demolished materials should be removed without blocking the access and egress <p>Ready access must be available to emergency services in the event of an emergency</p> <ul style="list-style-type: none"> Follow emergency procedure 				
5	Traffic management around the kerbstone installation areas	Heavy equipment accident , No Signage Install at work location on the Road	<ul style="list-style-type: none"> General site workers General site staff Site visitors Driver 	5	4	15	<ul style="list-style-type: none"> Adequate and trained numbers of Flagman to be provided. Signage must be in place in areas where work is ongoing 	HSE	5	1	5
6	Collapse of edges during installation of kerbstones, interlocks and wheel stoppers.	<p>Collapse of Edges due to poor compartments or flood</p> <p>Materials storage close to edge leading to collapse during heavy rain</p>	<ul style="list-style-type: none"> General site workers General site staff Site visitors 	5	3	15	<ul style="list-style-type: none"> Provide adequate temporary support, if required Do not permit Vehicles or equipment to operate too close to the excavation. Keep all spoils away from the excavation edge. Using of appropriate PPE must be observed at all Time. Isolation of work area by safety barricade and warning signs . 	<p>Project Manager</p> <p>Site Engineer.</p> <p>HSE</p>	4	1	4
7	Dust Pollution during installation activities	Vehicular traffic movement and strong wind	<ul style="list-style-type: none"> General site workers General site staff Site visitors 	4	3	12	<ul style="list-style-type: none"> Implement dust monitoring system to adequately identify areas of major concern. Ensure adequate water on- site to suppress dust Water spraying to the excavated areas and site vicinity. Haul road and vehicular access shall be kept wet. Heaped stockpiles shall be covered with a shade net if the height exceeds 2m or it exceeds nearby hoarding heights. Cover trucks transporting excavated materials with tarpaulin. On-site road sweep shall be maintained. Affected employees to wear proper PPE(Dust mask) 	HSE	4	1	4
8	Housekeeping and materials arrangement during	Slips, trips and falls hazards, property or material damage	<ul style="list-style-type: none"> General site workers 	5	3	15	<ul style="list-style-type: none"> Housekeeping shall be imposed on Daily Basis. Employees shall be communicated on slips and trip Proper material arrangement in designated area 	HSE	5	1	5

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	and after works		<ul style="list-style-type: none"> General site staff Site visitors 								
9	Equipment's / tools use during installation of kerbstones, interlocks and wheel stopper	Poor maintenance of hand tools and power tools, sub-standard equipment or material	<ul style="list-style-type: none"> General site workers General site staff Site visitors 	4	3	9	<ul style="list-style-type: none"> All equipment must be checked before use Defective equipment should not be used i.e. burst or leaking hoses, broken or missing jockey wheels All trailers must be inspected regularly for defects All anchorage systems/points must be operational, and all operational equipment functional i.e. brakes, lights. 	HSE	4	1	10
10	Underground utilities during installations of kerbstones and interlocking works	Lack of utilities details may lead to Electrocutation or damages to utilities	<ul style="list-style-type: none"> General site workers General site staff Site visitors 	5	4	20	<ul style="list-style-type: none"> Obtain detail of all services from Property Services Check the area with detector and be sure all control measures are in place. 	Project Manager Site Engineer. HSE	5	1	5
11	Barricade work area during and after work activity	Fall of workers and Equipment's, Fall of materials	<ul style="list-style-type: none"> General site workers General site staff Site visitors 	4	3	11	<ul style="list-style-type: none"> Workers/ Equipment should not move closer to the edge of the excavation. Barriers and warning signs shall be provided/placed Warning sign boards displayed. Training and TBT 	HSE	4	1	4
12	Environmental /weather Condition during Excavation	Temperature, noise, Humidity and Strong wind	<ul style="list-style-type: none"> General site workers General site staff Site visitors 	4	3	12	<ul style="list-style-type: none"> Inspect Site and adjacent areas for possible hazardous atmosphere and other condition that may be present hazards Suspended \Stop all operations during extreme temperature humidity and High wind Adequate supervision and ensure compliance to the use of PPE 	HSE	4	1	4
13	Heat stress during installation of kerbstones and interlocking	Heat stress, heat stroke and dehydration due to exposure to direct sunlight of workers	<ul style="list-style-type: none"> General site workers General site staff Site visitors 	5	3	15	<ul style="list-style-type: none"> Heat stress plan will be properly implemented, provision of rest areas and inter-mediate rest / rotation of workers, provision of drinking water and glucose. Proper timing of the activity to prevent workers from direct sunlight 	Project Manager Site Engineer. HSE	5	1	5

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Prepared By:	✓
A - Architect <i>(Architect engaged by UCE C&T)</i>	<input type="checkbox"/>
PM – Project Manager	<input checked="" type="checkbox"/>
CM – Construction Manager LM – Logistics	<input checked="" type="checkbox"/>
Manager PLM – Plant	<input type="checkbox"/>
Manager HSEM – HSE	<input checked="" type="checkbox"/>
Manager	<input checked="" type="checkbox"/>
PS – Project Supervisor <i>(UCE)</i>	<input type="checkbox"/>

Severity (S)		Frequency (F)	
2	Major Single Injury	2	Possible
3	Major Multiple Injuries	3	Occasional
4	Single Death	4	Frequent
5	Multiple Deaths	5	Regular

RISK RATING(RR)
$R = S \times F$

Unacceptability Limits
More than 5 is unacceptable re-assess task and preventative actions.

S = 0 is deemed to be the limit of practicability of control measures.
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	Very High	High	Medium	Low
	15-25	8-12	4-6	1-3
S ↓	5	4	3	2
	1	1	1	⇐ F
5	25	20	15	10
4	20	16	12	8
3	15	12	9	6
2	10	8	6	4
1	5	4	3	2

Project: Construction of roads and infrastructure at umm salal

Assessment Carried out by: KORODE KAYODE

Assessment Date: 09 SEPT, 2017

Risk Assessment Number: CRI -UMM 2017 C 004 A