

HAZARD IDENTIFICATION, RISK ASSESSMENT & RISK CONTROL PROJECT LOCATION PROJECT LOCATION HIRARC REF NO. SLG/HIRARC/PROJECT-PROJECT NAME/001

	НА	HAZARD IDENTIFICATION		RISK ASSESSMENT	RISK ASSESSMENT			RISK CONTROL		
No.	Activities / Process / Facilities / Equipment	Hazard	Cause / Effect	Current Risk Control	Likelihood	Severity	Risk	Recommended Control Measures	Person In Charge (PIC)	
1										
2										

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HIRARC ACTION TABLE

RISK LEVEL		ACTION & TIMESCALE
Acceptable	1 - 4	a) No additional controls are required. Consideration may be given to a more cost effective solution or improvement that imposes no additional cost burden.
		b) Monitoring is required to ensure that the controls are maintained.
		c) Additional control shall be proposed when necessary.
Moderate	5 - 14	a) Effort should be made to reduce the risk, but the costs or prevention should be carefully measured & limited. Risk reduction measures should be implemented within a defined time period.
		b) Where the moderate risk is associated with extremely harmful consequences, further assessment may be necessary to establish more precisely the likelihood of harm as a basis of determining the need for improved control measures.
		c) Additional control shall be proposed and implemented upon commencement of work if necessary.
		d) Briefing by SHO on safety awareness.
Unacceptable	15 – 25	a) Work should not be commenced or continued unless the risk has been successfully reduced.
		b) Permit to work/qualification/competency shall be obtained prior to commencement of work and briefing shall be conducted by SHO on safety awareness.
		c) If it is possible to reduce risk even with unlimited resources, work has to remain prohibited.
		d) Additional control must be proposed and implemented before commencement of work. The risk level shall then be reduced to at least moderate.



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DESCRIPTION OF LIKELIHOOD (PROBABILITY)

RANKING		DESCRIPTION
Frequent	5	a) Probability of hazard happening – Happens repeatedly at the workplace, and/or
		b) Exposure – 2 hours continuously.
Probable	4	a) Probability of hazard happening – Had happen in the company; and/or
		b) Exposure – 3 hours continuously.
Occasional	3	a) Probability of hazard happening – Heard of happening in the industry; and/or
		b) Exposure – 4 hours continuously.
Remote	2	a) Probability of hazard happening – Could occurred in the same industry, and/or
		b) Exposure – 5 hours continuously.
Improbable	1	a) Probability of hazard happening – Could occur in other industry; and/or
		b) Exposure> 6 hours continuously.

DESCRIPTION OF CONSEQUENCE

RANKING		DESCRIPTION
Disastrous	5	a) Fatality or permanent disability or irreversible illness; and/or b) Stop work order; and/or c) Fine max. RM500,000, and/or d) Extensive damage > RM250,000.
Critical	4	a) Major injury/illness (Long absenteeism, M.C > 14 days); and/or b) Notice of Prohibition (NOP); and/or c) Fine > RM150,000 and < RM500,000; and/or d) Major damage > RM50,000 and < RM250,000
Serious	3	a) Minor injury/illness (M.C between 5 to 14 days); and/or b) Notice of Improvement (NOI); and/or



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		c) Fine > RM50,000 and < RM150,000; d) Localized damage (Repair cost > RM10,000 and < RM50,000).
Minor	2	a) First aid cases/medical treatment (M.C between 1 to 4 days), and/or b) NCR/CAR; and/or c) Fine max. RM50,000; and/or d) Minor damage (No or less disruption, repair cost > RM1,000 and < RM10,000).
Noticeable	1	a) Near miss/ unsafe act/ unsafe condition; and/or b) NCR/CAR; and/or c) Comments by authorities; and/or d) Slight damage to equipment with no disruption to process.

QUALITATIVE RISK TABLE (MATRIX)

			LIKELIHOOD						
			Improbable	Remote	Occasional	Probable	Frequent		
			1	2	3	4	5		
	Noticeable	1	1	2	3	4	5		
ENCE	Minor	2	2	4	6	8	10		
EQUE	Serious	3	3	6	9	12	15		
CONSEQUENCE	Critical	4	4	8	12	16	20		
	Disastrous	5	5	10	15	20	25		

1-4 Acceptable 5-12 Moderate 15-25 Unacceptable



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Approved by	Signature
Project Manager	
Reviewed by	Signature
Safety & Health Officer	
Prepared by	Signature
Project Engineer / Site Agent	
Effective Date	