



PHARMA DEVILS

ENVIRONMENT HEALTH SAFETY DEPARTMENT

HAZARD IDENTIFICATION AND RISK ASSESSMENT

Department: Civil **Date:**

HIRA Team: **Location:**

S.No.	Activity	Sub-Activity	Hazard	N/A/E	Risk	Existing control Measure	Risk Considering existing control measure			Addition control measures to bring risk to (ALARP level)					Residual risk after applying additional control measures	Remarks (if Any)
							Frequency	Severity	RPN (F*S)	1. Elimination	2. Substitution	3. Engg. Control	4. Administration	5. Control PPE's		
1.	Piling	Movements of vehicles & workers	<ul style="list-style-type: none"> • JCB (excavators) • Movement of tractor trolleys • Uneven ground. • Movement of man with material. 	A	<ul style="list-style-type: none"> • Collision • Topple • Struck by an object. • Musculoskeletal disorder • Slip & trip 	35	2	3	6	345	1	3	3			



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2.	Piling	Excavation	<ul style="list-style-type: none"> • Accumulation of soil on edges. • Unprotected edges. • Mechanical failure of excavator. • Swing area of excavator. • Straight shoring/slope 	A	<ul style="list-style-type: none"> • Entanglement. • Struck by an object. • Landslide. • Cut injuries • Fall of man & material in excavated pit. • Cave in 	345	3	3	9	2345	1	4	4	-
3.	Piling	Bar fixing in excavated pit.	<ul style="list-style-type: none"> • Shifting bars to excavated pit. • Binding bars • Sharp edges of bar • Tripping hazards • Access 	A	<ul style="list-style-type: none"> • Cut injuries by sharp edges • Entanglement. • Fall on erected bars • Puncher injuries 	45	3	3	9	345	1	3	3	-



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4.	Piling	Concrete pouring by boom placer or manually with concrete miller.	<ul style="list-style-type: none"> • Contact with skin. • Movement of concrete miller or boom placer. • Explosion of rubber hose • Collision 	A	<ul style="list-style-type: none"> • Skin allergy • Cut injuries • Eye injuries and other injuries. • Fall of vehicle & man in excavated pit. • Occupational Hazard • Entanglement. • Musculoskeletal disorder. 	345	2	4	8	2345	1	4	4	
5.	Piling	Shuttering	<ul style="list-style-type: none"> • Collapse • Sharpe edges. • Awkward posture. 	A	<ul style="list-style-type: none"> • Cut injuries • Pinch points • Back injuries • Musculoskeletal disorder • Entanglement 	35	2	3	6	345	1	3	3	



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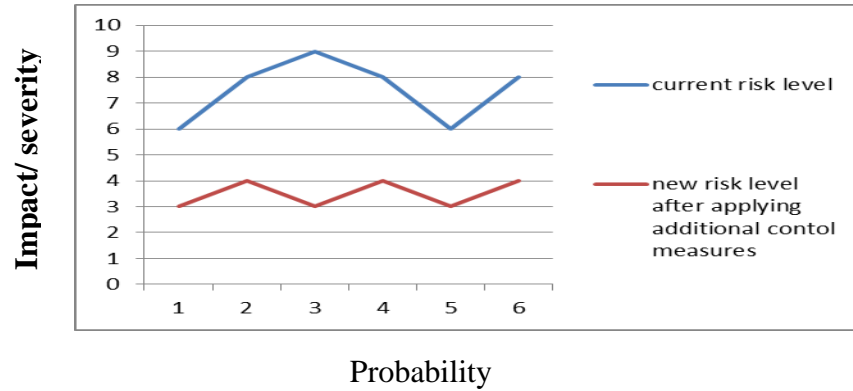
6.	Piling	D-shuttering	<ul style="list-style-type: none"> Concrete not set properly Sharpe edges Fall of material Tripping hazards Poor housekeeping 	A	<ul style="list-style-type: none"> Struck by an object. Entanglement Cut injuries Musculoskeletal disorder 	35	2	4	8	345	1	4	4	
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MATRIX

SEVERITY	5	5	10	15	20	25
	4	4	8	12	16	20
	3	3	6	9	12	15
	2	2	4	6	8	10
	1	1	2	3	4	5
	0	1	2	3	4	5
		Frequency				

LOW
MODERATE
HIGH



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REVISION HISTORY - HIRA Register

Revision No.	Date	Reason for change	Originator (Leader)	Approval
00		New Document	Plant/Functional Manager	Plant/ Functional Head

Distribution: Leader /plant/functional Head(s) /Functional Head – EHS

	Prepared By Operating Officer/Executive	Reviewed By Operating Manager	Approved By Department Head	Authorized By Head QA
Sign				
Date				
Name				