



RISK ASSESSMENT FOR PILE INSTALLATION-EXTRACTION USING GRIZZLY HAMMER

Activity:	PILE INSTALLATION-EXTRACTION USING GRIZZLY HAMMER					RA No.				
Location:	ABC					Date :				
Persons at Risk:	Piling Operatives / Engineers / Chainmen					Revision Status				
Equipment to be used:										
Hard Hat, Safety Goggles, Ear Protection, High-Visibility Vest, Gloves, Steel-Toed Boots, Respirator/Mask, Welding PPE, Safety Harness, Safety Belt, Fire Extinguisher, Safety Signage, Chemical-Resistant Gloves, Lockout/Tag out Equipment, Fall Arrest System, Safety Netting						Revision No.:		Revised Date:		
						NA		NA		
Potential Hazards / Conditions considered (Tick Box)					Persons at Risk					
Fall From Height	☒	Falling of Materials	☒	Subcontractors	☒	Public	☐			
Electricity	☒	Slips/Tripping	☒	Employees	☒	Visitors	☐			
Personal protective equipment (PPE)										
☒	Safety Helmet	☒	Respiratory / Berating Apparatus	☒	Gloves	☒	Goggles	☐	Full Body Safety Harness	
☒	Safety Boots	☒	Overalls	☒	Masks	☐	Ear Plugs/ Defenders	☐	Others, if any	
Mandatory HSE requirements (Tick Box)										
☒	Safety Induction	☒	Proper PPE	☒	Work Permit	☒	Proper Tools/ Equipment	☒	Proper Barricade & Warning Sign in The Affected area	
☒	Tool Box Talk	☒	Safe Work Place	☒	Proper Supervision	☒	Pre-Task Briefings	☐	Others, if any	
Risk Level: H (HIGH-Potential to cause death or permanent injury) M (MEDIUM –Potential to cause loss time injury) L (LOW- An injury treatable with First Aid)										
Likelihood (L)	Severity (S)	Class of risk (L*S)	LIKELIHOOD (L)	RISK MATRIX						Note: 1. Risk assessment must be addressed to workers by the worker in charge before starting the job. 2. Risk assessment is a continuous process hence to be reviewed depending on the activity and risk involved
Improbable	Negligible	High = 15-25		5	5	10	15	20	25	
Remote	Minor			4	4	8	12	16	20	
Probable	Reportable			3	3	6	9	12	15	
Occasional	Serious	Medium = 07-14		2	2	4	6	8	10	
				1	1	2	3	4	5	
					1	2	3	4	5	
									SEVERITY (S)	



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Sr.	Activity	Hazard	EVALUATION			Control Measures in place or to be implemented	RE-EVALUATION			Persons responsible for Implementation and Supervision.
			L	S	R		L	S	R	
1.	Auguring 1-Load / Unload Rig. 2-Erect and dismantle Rig. 3-Tracking and slewing of Rig. 4-Offloading materials. 5-Handling and pitching piles 6-Handling and pitching corner clutches/profiles (Movax type side grip Vibro's) 7-Pile driving	Traffic congestion. Rig collapse. Rig overturning. Crushing of operatives. Dropping pile Mechanical failure of jaw pads due to point loading Crushing of limbs	4	4	16	1-Ensure adequate working space is provided by the Main Contractor. Control traffic. Ensure the loading/unloading area is firm and level. (Working Platform Certificate to be provided by Main Contractor) 2-Only competent and trained rig operators are to be used (CPCS qualified). The mast and hammer are to be rigged by the rig manufacturer's manual by the trained operator (CPCS qualified) 3-Ensure firm and level ground with adequate ground-bearing capacity. (Working Platform Certificate to be provided by Main Contractor). Never track or slew close to an open excavation. Operatives to stand clear of the rig while traveling. Never exceed the SWL of lifting appliances. Never track or slew with a hammer above the cab level. No personnel in a slew radius where possible. Radio communication is used when not possible. 4-Ensure firm and level ground with adequate ground-bearing capacity. (Working Platform Certificate to be provided by Main Contractor). Ensure work is carried out by competent persons. Use certified lifting equipment. Tag lines, to control loads. Only competent and trained rig operators are to be used (CPCS qualified). All nonessential personnel are to be kept away from the area. Exclusion Zone to be in place. All personnel are to be outside the lift zone once load slung where practicable. No lifting directly over personnel. A lifting Plan is to be in place for use of the excavator as a crane. Refer to RA for use of the excavator as a lifting appliance. 5-Use trained piling operatives. Use certified lifting equipment. The exclusion zone is to be in place for lifting operations. Only personnel directly involved with lifts in the lifts area. All personnel be outside the lift zone once load slung where practicable. No lisspring-loadedfting directly over personnel. Ensure the slinger inspects connections before lifting. Ensure pile weight is within the lifting capacity of the rig. Radio communication is to be used when personnel are required to work within a wide radius 6-Ensure that all profiles to be clamped within the side jaws have parallel sides and will clamp 'flat' within the jaws pad. VTS (i.e. 'T' shaped corners) are not to be pitched and driven using side grip jaws as this may point load the jaw pads which may shear the spring-loaded fixing bolts. If VTS corners are required within piles to be driven with a Movax-type hammer, corner clutches are to be threaded on before piles are driven. 7-As handling and pitching piles.	2	3	6	Project Manager/ Project Engineer/Project Supervisor/Project Safety Officer/MEP Technicians



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Assessed by (print name, date, and Signatures):

Reviewed by (print name, date, and Signatures):

HSE Documents