

#### NBT Innovative India Pvt. Ltd.

Hazard Identification and Risk Assessment (HIRA)

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# **ACTIVITY SERIAL NUMBER**

## NAME OF ACTIVITY: Excavation

Risk Level = RL, Severity rating = S, Probability Rating =P | Categories of Hazards : Physical/ Chemical/ Ergonomic/ Biological/ Psychosocial/ Mechanical/ Electrical

	of				Pre Risk Evaluation				Condition			Post	Risk ation		<u> </u>	10/ Biological/ I Sychosocial/ Mcchaineal/	
SI. No	Hazard	Categories c Hazards	Risk (	Consequence	(S)	(P)	RL= (S×P)	Low Risk	Medium Rusk	Control Measures	(S)		DI -		Action By	Residual Risk	Remark
1.	Shop Floor Activity	Physical	Low	Low	2	1	2	Y			2	1	2	Site	Engineer	Low Risk	
2.	Lathe Machine, Grinder, M1TR	Physical	Moderate	Low	2	2	4	Y			2	1	2	Site	Engineer	Low Risk	
3.	Water & Oil logging	Physical	Low	Low	1	3	3	Y			1	1	1	Site	Engineer	Low Risk	
4.	Movement of vehicle / equipment	Physical	Low	Low	2	1	3	Y			2	2	4	Site	Engineer	Low Risk	
5.	Fall of tools & material.	Physical	Low	Low	1	2	2	Υ		<ul> <li>Dump excavated soil at least 1m distance.</li> <li>Conduct daily pep talk for site safety awareness.</li> <li>Don't keep tools near excavated cut.</li> <li>Provide all mandatory PPEs.</li> </ul>	3	1	3	Site Engineer		Low risk	



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				RISK LEVEL - RL, C	evei	ily ra	ung –	3, PIU	Dab	IIILY	Railing -P   Categories of Hazarus	. Pilys	icai/ C	Heimica	/ Ergonor	nic/ Biological/ Psychosocial/ Wechai	ilical/ Electrical
		Categories of Hazards	Risk	Consequence	Pre Risk Evaluation			Condition		on			Post Risk Evaluation				
SI. No	Hazard				(S)	(P)	RL= (S×P)	Low Risk	Medium Rusk	High Risk	Control Measures	(S)	(P)	RL= (S×P)	Action By	Residual Risk	Remark
6.	Contact with buried electric cable, gas,/oil pipelines.	Electrical	Low	No	1	2	2	Υ			<ul> <li>Before excavation check out all underground utilities and possible remove it.</li> </ul>		1	2	Site Engineer	Low Risk	
7.	Overhead crane & electric power lines.	Electrical	Low	Electrocution	1	2	2	Υ			<ul> <li>Maintain safe distance by overhead power lines.</li> <li>Maintenance &amp; Repairing</li> </ul>	2	1	2	Site Engineer	Low Risk	
8	Unauthorised / untrained worker.	Psycholo gical	Low	Cause of accident at work site - No.	1	2	3	Υ			<ul> <li>Engage only authorize and trained worker for a specific work. Don't engage workers without screening, medical checkup and safety induction</li> </ul>	1	2	2	Site Engineer	Low Risk	

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			RISK MAT	RIX									
<b>1</b>	Very Likely - 5	4	10	15	20	25							
	Likely - 4	4	8	12	16	20							
BILI	Possible - 3	3	6	9	12	15							
PROBABILITY	Unlikely - 2	2	4	6	8	10							
PR	Very Likely - 1	1	2	3	4	5							
		1	2	3	4	5							
		Negligible	Slightly	Moderate	High	Very High							
		SEVERITY <del>&gt;</del>											
	Risk	Risk level	sk level Condition										
	1 to 6	Low Risk	ced further.										
	8 to 12	Medium Risk Task should only be executing with appropriate management authorization consulting with specialist personal.											
	15 to 25	High Risk	Task must not proceed, until adequate action taken to minimize the risk.										

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