

Anaya-K1 Github Excel 2 - HIRA

(Hazard Identification & Risk Assessment)

in Industrial Safety (construction sector)

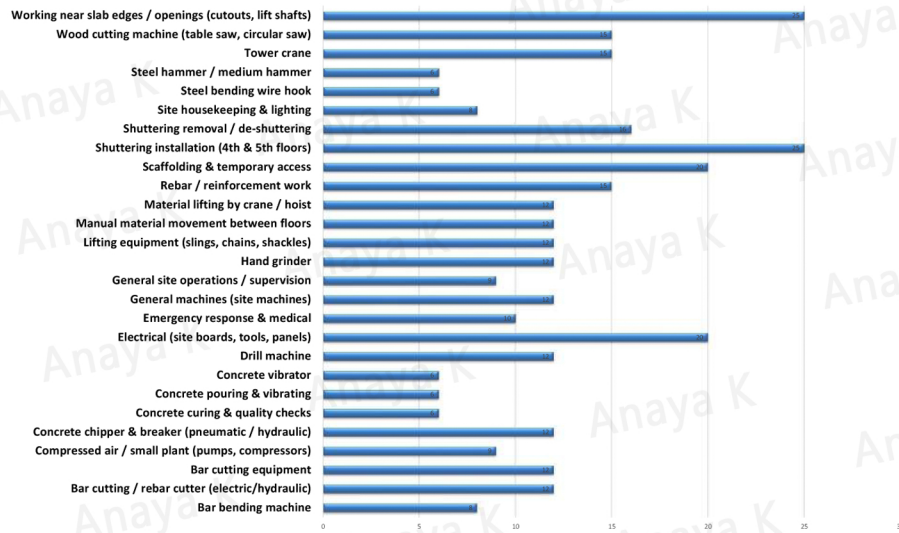
HAZARD IDENTIFICATION AND RISK ASSESSMENT (HIRA)

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Content by HH (Senior Safety Officer)

site: Vijay Developers, Art60, Pune

Risk Score for each activity



KPI / factors affecting safety	counts
Current stage of construction project	4th floor-bldg. A + 5th floor-bldg.B
Estimated completion of project	35% complete
Types of current activities	27
Types of Hazards present	39
Electrical Equipments	27
Hand Tools	102
Risk score	1 lowest - 25 highest
Total Workers	105
Staff	25

Top 10 Hazards by Risk	Sum of Risk Score
Fall from height	45
Fall into openings	25
Electric shock / arc flash	20
Collapse / fall	20
Struck by / falling formwork	16
Struck by / dropped object	16
Load drop	15
Cuts, kickback, dust inhalation	15
Struck by, fall, electrocution	15
Impalement / puncture	15
Fire	15

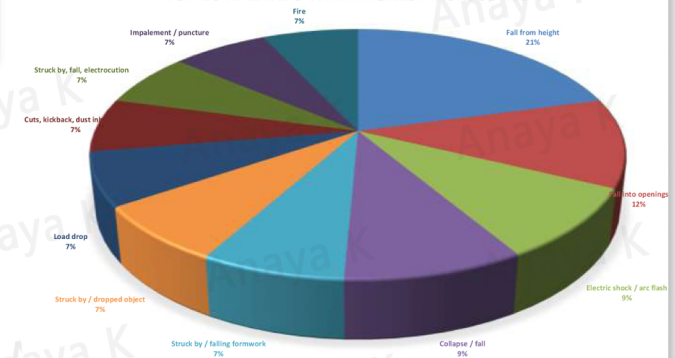
Severity → Likelihood ↓	1	2	3	4	5
1	1	2	3	4	5
2	2	4	6	8	10
3	3	6	9	12	15
4	4	8	12	16	20
5	5	10	15	20	25

RISK MATRIX (Risk = Severity x Likelihood)

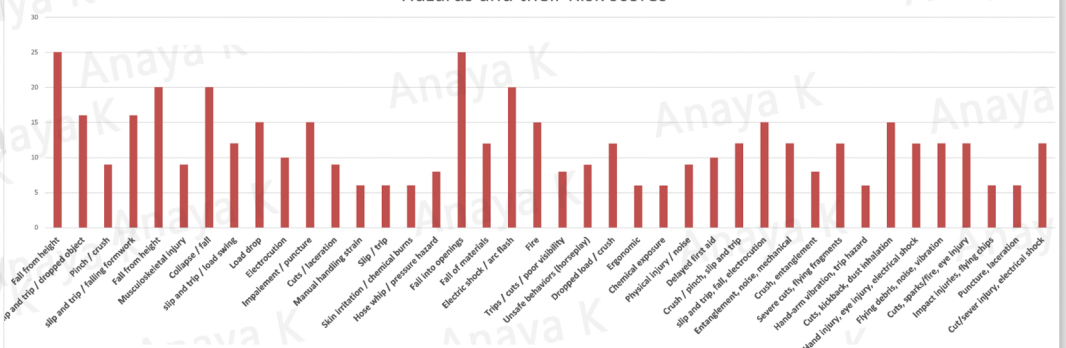
Top 8 high risk activities

Top 8 high risk activities	Sum of Risk Score
Working near slab edges / openings (cutouts, lift shafts)	25
Shuttering installation (4th & 5th floors)	25
Electrical (site boards, tools, panels)	20
Scaffolding & temporary access	20
Shuttering removal / de-shuttering	16
Tower crane	15
Rebar / reinforcement work	15
Wood cutting machine (table saw, circular saw)	15

TOP 10 HAZARDS WITH HIGHEST RISKScores



Hazards and their Risk scores



DASHBOARD

Original excel file shall be provided on request