

JOB HAZARD ANALYSIS (JHA)

Activity/Work Task: Skyline Commercial Plaza Construction Job Location: Plot No. 45, Industrial Zone, Phase II, Islamabad, Pakistan	Overall Risk Assessment Code (RAC) H (Use highest code)																																			
Work Order:	RISK ASSESSMENT CODE (RAC) MATRIX																																			
Contractor: PrimeBuild Engineering Pvt. Ltd. Address: Plot No. 45, Industrial Zone, Phase II, Islamabad, Pakistan	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="width:15%;">Severity</th> <th colspan="5">PROBABILITY</th> </tr> <tr> <th style="width:10%;">Freq.</th> <th style="width:10%;">Likely</th> <th style="width:10%;">Occas.</th> <th style="width:10%;">Seldom</th> <th style="width:10%;">Unlikely</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">CATASTROPHIC</td> <td style="background-color: #d62728;">E</td> <td style="background-color: #d62728;">E</td> <td style="background-color: #ffc107;">H</td> <td style="background-color: #ffc107;">H</td> <td style="background-color: #ffc107;">M</td> </tr> <tr> <td style="text-align: center;">CRITICAL</td> <td style="background-color: #d62728;">E</td> <td style="background-color: #ffc107;">H</td> <td style="background-color: #ffc107;">H</td> <td style="background-color: #ffc107;">M</td> <td style="background-color: #28a745;">L</td> </tr> <tr> <td style="text-align: center;">MARGINAL</td> <td style="background-color: #ffc107;">H</td> <td style="background-color: #ffc107;">M</td> <td style="background-color: #ffc107;">M</td> <td style="background-color: #28a745;">L</td> <td style="background-color: #28a745;">L</td> </tr> <tr> <td style="text-align: center;">NEGLIGIBLE</td> <td style="background-color: #ffc107;">M</td> <td style="background-color: #28a745;">L</td> <td style="background-color: #28a745;">L</td> <td style="background-color: #28a745;">L</td> <td style="background-color: #28a745;">L</td> </tr> </tbody> </table>	Severity	PROBABILITY					Freq.	Likely	Occas.	Seldom	Unlikely	CATASTROPHIC	E	E	H	H	M	CRITICAL	E	H	H	M	L	MARGINAL	H	M	M	L	L	NEGLIGIBLE	M	L	L	L	L
Severity			PROBABILITY																																	
		Freq.	Likely	Occas.	Seldom	Unlikely																														
CATASTROPHIC		E	E	H	H	M																														
CRITICAL		E	H	H	M	L																														
MARGINAL	H	M	M	L	L																															
NEGLIGIBLE	M	L	L	L	L																															
Date Prepared: 04/12/26																																				
Prepared by (Name/Title): Afaq Ahmad																																				
Reviewed by (Name/Title): Engr Awais Ali																																				
DFOW: PrimeBuild Engineering Pvt. Ltd. is undertaking the construction of the Skyline Commercial Plaza, a multi-story commercial building located at Plot No...	Review each "Hazard" with identified safety "Controls" and determine RAC (See above)																																			
Competent Person: Engr Fahad Raza Required PPE: Hard hat, Safety glasses, Steel-toed boots, High-vis vest, Gloves, Safety harness (for work at height), Welding helmet (for welding), Welding gloves, Apron (for welding), Respiratory protection (dust masks/respirators) <i>The signed copy needs to be scanned and placed in the red folder under preparatory meetings and another copy in the JHA binder at the right to know station.</i>	<p>"Probability" is the likelihood to cause an incident, near miss, or accident and identified as: Frequent, Likely, Occasional, Seldom or Unlikely.</p> <p>"Severity" is the outcome/degree if an incident, near miss, or accident did occur and identified as: Catastrophic, Critical, Marginal, or Negligible.</p> <hr/> <p>Step 2: Identify the RAC (Probability/Severity) as E, H, M, or L for each "Hazard" on JHA. Annotate the overall highest RAC at the top of JHA.</p>																																			
	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #000080; color: white;">RAC CHART</th> </tr> </thead> <tbody> <tr> <td style="background-color: #d62728; color: white; text-align: center;">E = Extremely High</td> </tr> <tr> <td style="background-color: #ffc107; color: black; text-align: center;">H = High Risk</td> </tr> <tr> <td style="background-color: #ffc107; color: black; text-align: center;">M = Moderate Risk</td> </tr> <tr> <td style="background-color: #28a745; color: black; text-align: center;">L = Low Risk</td> </tr> </tbody> </table>	RAC CHART	E = Extremely High	H = High Risk	M = Moderate Risk	L = Low Risk																														
RAC CHART																																				
E = Extremely High																																				
H = High Risk																																				
M = Moderate Risk																																				
L = Low Risk																																				

JOB STEPS	HAZARDS	RISK CONTROLS	RAC
1. Site Preparation and Excavation	1. Unstable ground conditions 2. Contact with underground utilities 3. Workers struck by moving equipment 4. Slips, trips, and falls during site access 5. Exposure to dust and debris	1. Conduct a thorough site survey and soil investigation before excavation (Dubai Code 2.1.2). Implement ground stabilization measures if required (OSHAD SF 5.0) 2. Verify the location of underground utilities (Dubai Code 2.1.4). Implement a permit-to-dig system. (OSHAD SF 5.0) 3. Ensure all personnel are trained in equipment operation and safe work practices (MOHRE Reg. 4.2). Implement a spotter system if needed 4. Provide proper access and egress routes (Dubai Code 4.1.1). Implement a housekeeping program to remove trip hazards. (OSHAD SF 6.0) 5. Provide dust suppression measures, such as water spraying (Dubai Code 3.3.2). Ensure workers wear appropriate PPE, including dust masks. (OSHAD SF 6.0, MOHRE)	H
2. Concrete Pouring and Compaction	1. Exposure to wet concrete (skin irritation) 2. Slips and falls on wet surfaces 3. Strain from manual handling 4. Equipment malfunction (vibrator)	1. Provide appropriate PPE, including gloves and eye protection (Dubai Code 6.1.1). Provide washing facilities (OSHAD SF 6.2.2) 2. Ensure good housekeeping and proper drainage (Dubai Code 4.1.2). Use non-slip footwear. (OSHAD SF 6.0) 3. Train workers on safe lifting techniques (MOHRE Reg. 3.2). Provide mechanical lifting aids where possible 4. Inspect equipment before use. (Dubai Code 7.2.1). Ensure proper maintenance programs are in place. (OSHAD SF 7.0)	M

	5. Falling objects from above	5. Implement a 'hard hat' policy, and enforce proper securing of materials and tools. (Dubai Code 6.1.1). Barricade overhead work areas. (OSHAD SF 6.1)	
3. Steel Reinforcement Installation	1. Puncture wounds from rebar	1. Provide gloves and safety shoes and require the use of personal protective equipment (Dubai Code 6.1.1). Inspect PPE regularly. (OSHAD SF 6.0)	M
	2. Manual handling injuries	2. Train workers in safe lifting techniques. Use mechanical aids for heavy loads (MOHRE Reg. 3.2)	
	3. Falls from height during placement	3. Use safety harnesses and fall arrest systems where working at height. (Dubai Code 4.2.1). Provide appropriate scaffolding and edge protection. (OSHAD SF 4.0)	
	4. Eye injuries from cutting and tying rebar	4. Ensure workers wear safety glasses or goggles. (Dubai Code 6.1.1). Provide cutting tools with guards or shields. (OSHAD SF 6.0)	
	5. Material Handling Hazards	5. Ensure materials are stacked and stored properly (Dubai Code 4.1.3). Establish safe walkways. (OSHAD SF 6.0)	
4. Scaffolding Erection and Use	1. Falls from height during erection and use	1. All scaffolding activities to be carried out by a competent person. (Dubai Code 4.2.2). Provide fall protection measures, including safety harnesses and guardrails. (OSHAD SF 4.0)	H
	2. Scaffolding collapse due to improper assembly or overloading	2. Scaffolding must be erected and inspected by a competent person. (Dubai Code 4.2.2). Follow manufacturer's instructions for assembly and ensure proper bracing. (OSHAD SF 4.0)	
	3. Being struck by falling objects	3. Implement a 'hard hat' policy and ensure all workers wear head protection. (Dubai Code 6.1.1). Secure tools and materials to prevent them from falling. (OSHAD SF 6.0)	
	4. Trips and falls on scaffolding platforms	4. Ensure platforms are free from obstructions and well lit. (Dubai Code 4.1.2). Provide safe access and egress. (OSHAD SF 6.0)	

	5. Contact with overhead power lines	5. Maintain a safe distance from overhead power lines. Consider the use of insulated tools. (Dubai Code 8.1.1). Implement a lock-out/tag-out procedure if applicable. (OSHAD SF 8.0)	
5. Electrical Wiring and Installation	1. Electric shock	1. All electrical work to be performed by a qualified electrician (Dubai Code 8.1.1). Use insulated tools and PPE. (OSHAD SF 8.0)	H
	2. Arc flash	2. Implement a permit-to-work system for all electrical work. (Dubai Code 8.1.2). Use appropriate PPE for arc flash protection. (OSHAD SF 8.0)	
	3. Burns from electrical equipment	3. Ensure proper grounding and bonding of all electrical equipment. (MOHRE Reg. 6.2). Provide fire extinguishers. (OSHAD SF 9.0)	
	4. Fire hazards due to faulty wiring	4. Conduct regular inspections of wiring and equipment. (Dubai Code 8.2.1). Replace faulty wiring and use approved materials. (OSHAD SF 8.0)	
	5. Tripping hazards from cables and wires	5. Properly route and secure cables and wires. (Dubai Code 4.1.3). Provide cable management solutions and ensure walkways are clear. (OSHAD SF 6.0)	
6. Structural Framing and Welding	1. Eye injuries from welding arc	1. Provide welding helmets with appropriate shade lenses. (Dubai Code 6.1.1). Use welding screens or curtains. (OSHAD SF 6.0)	H
	2. Burns from hot metal and sparks	2. Provide welding gloves, aprons and other protective clothing. (Dubai Code 6.1.1). Ensure appropriate ventilation. (OSHAD SF 6.0)	
	3. Inhalation of welding fumes	3. Provide adequate ventilation and use local exhaust ventilation (Dubai Code 3.3.1). Use welding fume extraction systems. (OSHAD SF 6.0)	

	4. Fire hazards	4. Keep a fire extinguisher readily available. (Dubai Code 9.1.5). Remove flammable materials from the work area. (OSHAD SF 9.0)	
	5. Falls from height (welding at height)	5. Use fall protection, including safety harnesses and lifelines when welding at height and provide temporary work platforms. (Dubai Code 4.2.1, OSHAD SF 4.0)	

EQUIPMENT TO BE USED TRAINING INSPECTION		
EQUIPMENT TO BE USED	TRAINING REQUIRED	INSPECTION REQUIREMENTS
Excavator	Excavator operation certificate, Competent Operator Training	Pre-operational check, daily, and weekly maintenance checks
Concrete Mixer Machine	Mixer Operation Training	Pre-shift inspection for functionality and safety. Check all safety devices.
Welding Machine	Welding certification and safe welding practices.	Inspect cables, connectors and welding equipment before each use.
Scaffolding System	Scaffolding Erection and Inspection Training	Regular inspections by a competent person before each use and after any event that could affect its integrity.

ACTIVITIES REQUIRING A COMPETENT OR QUALIFIED PERSON – ATTACH PROOF OF COMPETENCY	
ACTIVITY	DESIGNATED COMPETENT OR QUALIFIED PERSON
Excavation	Excavation Competent Person
Scaffolding Erection and Inspection	Certified Scaffolding Supervisor / Engr Fahad Raza
Electrical Work	Qualified Electrician

Welding Operations	Certified Welder
Crane Operations (if applicable)	Certified Crane Operator
Confined Space Entry (if applicable)	Competent Person for Confined Space Entry

SIGNATURES / VERIFICATION OF REVIEW		
NAME (PRINT)	SIGNATURE	DATE

JHA MODIFIED AND REVIEWED		
NAME (PRINT)	SIGNATURE	DATE

--	--	--

TOOLBOX MEETING

(This JHA has been discussed with the following crew)

NO.	NAME (PRINT)	DESIGNATION/ROLE	SIGNATURE	DATE
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				

Disclaimer: The user, contractor, employer, or project owner is responsible for confirming that the contents of this document appropriately reflect the specific work activities, site conditions, and applicable laws, regulations, and project requirements before implementation. While reasonable efforts are made to provide useful and structured safety information, the provider shall not be liable for any damage, claim, or legal action arising from the use of this document.