HSE DOCUMENTS
Ready2Use Free Editable

RISK ASSESSMENT

Activity:	Lift Load Testing (Capacity: 25kg)	**RA No.**	HSE DOCUMENTS-LLT-RA-01
Location:	ABC	**Date :**	21-08-2023

Equipment to be used:		**Revision Status**	
		Revision No.:	**Revised Date:**
Load Test Weights, Hoist or Lift Mechanism, Load Cell Shackles, Hooks, and Slings, Calibration, Weights, Control Panel, Digital Scale or Balance, Torque Wrench, Spirit Level, Digital Caliper, Calibration Process, Load Cell Calibration, Verification of Test Weights, Calibration Records	Others, if any	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 Signs 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)
Improbable	Negligible	High = 15-25
Remote	Minor	
Probable	Reportable	Medium = 07-14
Occasional	Serious	
		Low = 01-06

LIKELIHOOD (L)	**CONSEQUENCES**				
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
	1	2	3	4	5
	SEVERITY (S)				

Note:
1. The 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

Sr.	HAZARDS	RISKS	EVALUATION			CONTROL MEASURES IN PLACE OR TO BE IMPLEMENTED	RE-EVALUATION			PERSONS RESPONSIBLE FOR IMPLEMENTATION AND SUPERVISION
			Consequence	*Likelihood*	*Risk Score*		*Consequence*	*Likelihood*	*Risk Score*	
1.	**Overloading**	• Equipment failure (e.g., breaking of lifting equipment) • Structural damage • Injury to personnel (e.g., crush injuries)	3	4	12	**Existing Control Measures:** • Use equipment with appropriate load capacity • Regular load testing and equipment maintenance • Load limit indicators **Additional Control Measures:** • Pre-task load assessment • Implementing clear weight limit guidelines • Use of load monitoring systems to prevent overloading	1	2	2	Project Manager/ Engineer/ Supervisor/Safety Officer/MEP Technicians/ Sub-Contractor Supervisor & technicians
2.	**Inadequate securing of load**	• Dropping or shifting of load • Injuries to personnel (e.g., impact injuries) • Damage to equipment and property	3	4	12	**Existing Control Measures:** • Use of certified lifting gear (chains, slings, hooks) • Standard operating procedures for load securing • Competent operators and riggers **Additional Control Measures:** • Training on securing methods • Visual inspection of load securing before lifts • Use of load stability aids (e.g., straps, nets)	1	2	2	Project Manager/ Engineer/ Supervisor/Safety Officer/MEP Technicians/ Sub-Contractor Supervisor & technicians

3.	**Equipment malfunction**	• Sudden equipment failure (e.g., crane malfunction) • Injuries to personnel • Project delays	3	4	12	**Existing Control Measures:** • Routine inspections and maintenance • Use of high-quality, certified equipment • Operator training and certification **Additional Control Measures:** • Introducing real-time equipment monitoring systems • Implementing scheduled preventive maintenance programs • Emergency stop protocols and drills	1	2	2	Project Manager/ Engineer/ Supervisor/Safety Officer/MEP Technicians/ Sub-Contractor Supervisor & technicians
4.	**Manual handling of load**	• Musculoskeletal injuries (e.g., back strain) • Dropping load leading to injuries • Fatigue	3	4	12	**Existing Control Measures:** Manual handling training • Use of lifting aids (e.g., trolleys, hoists) • Proper PPE (gloves, boots) **Additional Control Measures:** • Redesign tasks to eliminate manual handling where possible • Rotate workers to prevent fatigue • Risk assessment before each manual handling task	1	2	2	Project Manager/ Engineer/ Supervisor/Safety Officer/MEP Technicians/ Sub-Contractor Supervisor & technicians
5.	**Unauthorized access**	• Unauthorized personnel in hazardous areas • Increased risk of accidents or injuries • Security breaches				**Existing Control Measures:** • Physical barriers and signage • Use of access control systems • Security personnel **Additional Control Measures:** • Implement a permit-to-work system • Training on site access restrictions • Monitoring via CCTV or other systems	1	2	2	Project Manager/ Engineer/ Supervisor/Safety Officer/MEP Technicians/ Sub-Contractor Supervisor & technicians

6.	**Electrical hazards**	● Electrocution ● Electrical fires ● Damage to equipment	3	4	12	**Existing Control Measures:** ● Regular inspection and testing of electrical systems ● Insulated tools and equipment ● Proper grounding and circuit breakers **Additional Control Measures:** ● Implement Lockout/Tagout (LOTO) procedures ● Clear labeling of electrical panels and components ● Training on electrical hazard awareness	1	2	2	Project Manager/ Engineer/ Supervisor/Safety Officer/MEP Technicians/ Sub-Contractor Supervisor & technicians
7.	**Environmental conditions**	● Heat stress or cold stress ● Slips, trips, and falls in wet or icy conditions ● Reduced visibility in low-light conditions	3	4	12	**Existing Control Measures:** ● Provide appropriate PPE (e.g., weather-appropriate clothing) ● Regular monitoring of weather conditions ● Use of anti-slip mats and barriers in wet conditions **Additional Control Measures:** ● Implement work-rest schedules in extreme temperatures ● Training on recognizing and responding to environmental hazards ● Use of temporary lighting or weather protection systems	1	2	2	Project Manager/ Engineer/ Supervisor/Safety Officer/MEP Technicians/ Sub-Contractor Supervisor & technicians

Control Measures Implementation

- Pre-Test Briefing: Conduct a pre-task briefing covering all identified hazards and control measures.
- Training: Ensure that all personnel involved in the testing are adequately trained and competent.
- Emergency Preparedness: Have a first aid kit and trained first aiders on-site, and ensure communication devices are functional.
- Documentation: Maintain records of all inspections, testing, and maintenance of lifting equipment.

References (OSHAD UAE and Code of Practices)

OSHAD-SF – Element 5: Risk Management

- Reference: OSHAD-SF – CoP 34.0, Risk Management
- Requirement: All hazards associated with lifting operations must be identified, and appropriate control measures implemented.

OSHAD-SF – Element 7: Occupational Safety

- Reference: OSHAD-SF – CoP 23.0, Lifting Operations

- Requirement: Lifting operations must be planned, supervised, and carried out by competent persons to prevent accidents.

OSHAD-SF – Element 10: Emergency Management

- Reference: OSHAD-SF – CoP 19.0, Emergency Preparedness and Response
- Requirement: Emergency procedures must be in place and practiced regularly.

Assessed by:				
Name: Muhammad Arshad	**Designation:** QHSE Officer	**Date:** 21-08-2024	**Signature:**	
Reviewed				
Name:	**Designation:**	**Date:** 21-08-2024	**Signature:**	
Approved By:	**Designation:**	**Date:** 21-08-2024	**Signature:**	