



RISK ASSESSMENT

RISK ASSESSMENT FOR LOADING AND UNLOADING

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Revision:00

PROJECT / LOCATION

Job No.

DATE

DATE OF NEXT ASSESSMENT

TASK / ACTIVITY

LOADING AND UNLOADING

Ref	Workplace/Activity/Process/Equipment/Materials	Hazards	Risks Issue (Possible incident) [What can go wrong] (Accident/ill health to persons, fire or property loss)	Existing Controls	Base Risk Ranking (Without Controls)			Improved Existing Controls / Implementing New Controls	Risk Reduction Action Plan			Follow up by Whom (name) & By When (date)	Controls Implemented	
					L	R	RR		L	R	RR		YES	NO
1	Checking the site	Falling, Slipping, and tripping	Personal injury.	Proper housekeeping, Signs, and barricade	4	4	16		4	2	8	Project Engineer Project Supervisor Project QHSE Engineer	YES	
2	Equipment Mobilization	Collision, unsecured load, Hit	Personal, Equipment, Load, or nearby structure.	Ensure Tool Box Talk. The driver should be competent and have all documents (Local Driving license, operator license, etc.). Maintain road speed limit when using access roads. With a valid third-party inspection certificate.	4	4	16	Do not use mobile phones while operating any equipment. The load should be secured by straps.	3	2	6	Project Engineer Project Supervisor Project QHSE Engineer		
3	Installing the Lifting equipment / lifting gears	Slips, falling from height. Incompetent Rigger.	Personal injury.	The area should be barricaded and signs should be in place. Proper W@H equipments. Lifting gears should be inspected by a TPI company and certified. Clearing the area from any nearby structures, persons, or equipment that may affect the installation of the lifting equipment.	4	3	12	The ground condition shall be verified by a competent person before positioning the crane (bearing capacity). W@H Training and Drills. Certify and experienced rigger. Visual inspection before the use of the lifting equipment/gears.	3	2	6	Project Engineer Project Supervisor Project QHSE Engineer	YES	
4	Working close to heavy elements	Moving Plant, Machinery, and Elements. Persons being struck by the suspended load. Persons being struck by moving equipment.	Damage to equipment/lifting Gears or nearby structures, (serious injury or fatality).	Do not approach any moving plant or equipment until you are sure you have the attention of the banksman or operator. All personnel are to wear Hi-Vis clothing at all times. Reverse beeper fitted in every machine Workers are to keep clear of moving machinery at all times and not to approach until signalled by the machine operator.	5	3	15	Flashing Beacons. Competent & experienced plant operators. Assessment needs to be performed for the operator before the usage of equipment.	4	2	8	Project Engineer Project Supervisor Project QHSE Engineer	YES	
5	Lifting Operation	Lifting equipment failure.	Serious injury, fatality. Collapse or asset damage	Always use basic PPE at all times. The use of color coding and certified lifting equipment / Gear. Visual inspection of the lifting equipment / Gears and a proper Checklist to be used. Certified, Competent, and well-experienced team. Continuous supervision.	4	4	16	A good communication between the lifting supervisor and the sketch holder.	3	2	6	Project Engineer Project Supervisor Project QHSE Engineer	YES	

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					L	R	RR		L	R	RR		YES	NO
		Load Dislodgement.	Serious injury, fatality. Damaged load or nearby structures.	The working area is restricted & barricaded well. A competent, certified, and experienced Rigger should be in place to choose the correct lifting gears (SWL and length), C or G for the shape of the load.	4	3	12	Only involved team members should be in the lifting area. No personnel shall be under the suspended load.	4	2	8	Project Engineer Project Supervisor Project QHSE Engineer	YES	
		Uncontrolled movement of the load	The use of the Tagline to control the load. Taking suitable measures to the weather conditions (wind speed, visibility, thunders, and storms). The operator shall refrain from unexpected maneuvers. The lifting operator shall be certified, competent, and experienced.	The use of the Tagline to control the load. Taking suitable measures to the weather conditions (wind speed, visibility, thunders, and storms). The operator shall refrain from unexpected maneuvers. The lifting operator shall be certified, competent, and experienced.	5	4	20	Stopping the lifting operation if the wind speed exceeds 10 M / S can be changed taking the consideration the shape of the load. Using more than 2 Taglines depending on the shape and dimensions of the load. The lifting equipment operator shall be familiar with the lifting operation.	5	2	10	Project Engineer Project Supervisor Project QHSE Engineer		
		Communication breakdown and language barrier (Misunderstanding).	Serious injury, fatality, Assets Damaged, or nearby structures Collapse	A competent signalman/banksman should be in place. During blind corners, more than one signalman/banksman or Radio shall be used. Checking the Radios before starting the lifting operation. The lifting equipment operator shall be informed about the load weight before starting the lifting activity. Stopping the lifting operation if there is any type of miscommunication.	4	3	12	The signalman/banksman shall be familiar with the standard lifting operation signals. The operator shall be familiar with the lifting team members to prevent any composition.	3	2	6	Project Engineer Project Supervisor Project QHSE Engineer		
		Unplanned lifting operation	Serious injury, fatality, Assets Damaged, or nearby structures Collapse	A lifting plan shall be in place. A more detailed sketch for the non-routine lifting operations. The lifting supervisor shall divide the lifting team by their roles. The unloading designated area will be in the lifting plan and will be discussed with the lifting team members. and will be discussed with the lifting team members.	4	3	12	I am reviewing the lifting plan with the staff involved in the lifting operation (TBT). The presence of the Lifting planner during non-routine lifting operations. Lifting team members shall be recognized by others.	3	2	6	Project Engineer Project Supervisor Project QHSE Engineer		
	Housekeeping	Trip / Slip / Fall	Personal Injury.	Always use proper PPE at all times. Manual loading and unloading should be limited, not to exceed 20 kilos per person, or use of mechanical means of loading. Clear the area of unwanted materials; keep the area clean and tidy. Barricade the area for unauthorized.	4	3	12	Use a Dust mask or spraying water to control dust.				Project Engineer Project Supervisor Project QHSE Engineer		

Note: This Risk Assessment must be reviewed if the execution of a new job or any incident occurred on the work site and also after completing 12 months.

Risk Methodology										
RISK MATRIX						RISK RANKING	Likelihood (Probability Levels)	Consequences (Impact Levels)	Consequences (Impact Levels)	
Likelihood	Consequences					H – High	5- Frequent: More than 75%. Very likely to occur or already happened.	Human	Environment	
	1-Slight	2-Minor	3-Moderate	4-Major	5-Massive			1-Single person of the workforce is injured, but able to continue work.	1-Minor environmental impact which is localized and easy to remedy.	
Frequent	5	10	15	20	25	M – Medium	4- Probable: 51% to 75%. More than likely to occur than not.	2-Single person in the workforce 1 or 2 days off work with a moderate reversible health effect.	2-Moderate environmental impact within the Project area of influence.	
Portable	4	8	12	16	20		3- Seldom: 50%. Chances for occurrence/non-occurrence are equal.	3-Single person in the workforce 3 days off work with a moderate irreversible health effect.	3-Significant environmental impact beyond the Project Area of Influence.	
Seldom	3	6	9	12	15		2- Unlikely: 10-49%. Less likely to occur than not	4-1 fatality or single person of public hospitalized or with severe irreversible health effect.	4-Major environmental impact beyond the Project Area of Influence which is hard to remedy.	
Unlikely	2	4	6	8	10	L – Low	1- Improbable: Up to 10%. Improbable.	5-Multiple fatalities or multiple persons of public hospitalized or with severe irreversible health effects.	5- Catastrophic damage to the environment which cannot be contained and which interrupts the pipeline development progress.	
Improbable	1	2	3	4	5					
Ranking / Risk must be moderate (M) or low (L) before you can start work.										

RISK ASSESSMENT TEAM		
Prepared By	Reviewed By	Approved By
Name:	Name:	Name:
Date:	Date:	Date: