

RISK ASSESSMENT FORM			
Company	Group 1	Conducted By (Date)	
Task	Heavy Lifting – 20tons Hatch Cover		
Approved By (Date)		Next Review Date	

1. Hazard Identification				2. Risk Evaluation				3. Risk Control		Reference
No.	Task Step	Hazard	Possible Accident/III Health & Persons-at-risk	Existing Risk Control	Severity	Likelihood	Risk Level	Additional Risk Control Measure	Action Officer Follow-up Date)	Document for Reference
1	Lifting supervisor to assess the load and type of lifting method to used	Wrong Assessment	-	Competent & Experience lifting supervisor (undergone MOM lifting training)	3	1	L	-	Lifting Supervisor	Safe Work Procedure for lifting operation
2	To arrange proper lifting gear and cranes	Wrong Selection	Body Injury Property damage	RA Briefing for all workers. Select proper lifting gear Anchor Point Check	4	1	M	Lifting can only be carried out with the recommended lifting gears and lifting machines	Lifting Supervisor	Safe Work Procedure for lifting operation
3	Check the welding condition of lifting lug	Structure failure (Eye lug)	Body Injury Property Damage	Welding eye lug, must check by competent person (e.g. QA/QC etc)	4	1	M	Verified NDT report prior to lifting operation.		Safe Work Procedure for lifting operation
4	Hook up lifting gear as coordinated with Crane operator and Signalman	Falling from height (if rigging is required to be performed at height) Falling lifting gears Improper handling	Hand and finger injury	To be carried out be qualified rigger Appropriate PPE used (hand Glove etc.) Select correct lifting gear for the task (size and capacity) All loose items must be secured / removed Safety harness / safety belt to be used above 2m and on	4	1	M	Increase safety awareness through safety briefing / training	Lifting Supervisor	Safe Work Procedure for lifting operation

				<p>hanging staging</p> <p>Ensure crane operator, rigger and signalman have clear communication (walkie talkie)</p>						
5	Load lifting	<p>Falling and caught by suspended load</p> <p>Crane failure</p> <p>Foul weather</p> <p>Toppling</p>	<p>Body Injury</p> <p>Property Damage</p>	<p>Use lifting signals. Barricade the area and use tag line</p> <p>Ensure competent crane driver</p> <p>Ensure proper lifting equipment used</p> <p>Don't stand under suspended load</p> <p>Ensure crane operator, rigger and signalman have clear communication (walkie talkie)</p>	3	3	M	<p>Put sign board and alert workers on the operation</p> <p>Increase safety awareness through safety briefing / training</p>	Rigger and Signalmen on site	Safe Work Procedure for lifting operation
6	Load positioning	<p>Falling from Height</p> <p>Restricted visibility</p> <p>Foul weather</p> <p>Inadequate lighting</p> <p>Miscommunication</p>	Minor body injury	<p>Use tag line and barricade the area</p> <p>Stop work during foul weather</p> <p>Ensure adequate lighting prior to lifting (maint)</p> <p>Ensure communicate to rigger via walkie talkie</p> <p>Ensure adequate illumination</p>	3	2	M	Use additional lifting gear	Rigger and Signalmen on site	Safe Work Procedure for lifting operation

1. Hazard Identification				2. Risk Evaluation				3. Risk Control		Reference
No.	Task Step	Hazard	Possible Accident/ Ill Health & Persons-at-risk	Existing Risk Control	Severity	Likelihood	Risk Level	Additional Risk Control Measure	Action Officer (Follow-up Date)	Document for Reference
7	Swinging the load for proper positioning	Hit by object Restricted visibility Foul weather Inadequate lighting Miscommunication	Body Injury	Ensure tag line is installed Ensure sufficient manpower to handle tag line Don't stand under suspended load Ensure the immediate lifting area is cordoned off Stop crane movement if load swing is too extensive Stop work during foul weather Use experience-lifting crew for complicated lift. Swing slowing – observed SWP	2	2	L	Use whistle for area clearance and place signboard Crane siren	Lifting Team on site	Safe Work Procedure for lifting operation
8	Load in position, Removal of lifting gears	Falling from height (if rigging is required to be performed at height) Falling lifting gears Improper handling	Hand & Finger Injury	Use Proper PPE	1	4	L	Lifting Supervisor to conduct safety briefing	Rigger and Signalmen on site	Safe Work Procedure for lifting operation

RISK ASSESSMENT FORM			
Company	Group 2	Conducted By (Date)	
Task	Lifting Pipe by Crane Lorry		
Approved By (Date)		Next Review Date	

1. Hazard Identification				2. Risk Evaluation				3. Risk Control		Reference
No.	Task Step	Hazard	Possible Accident/Ill Health & Persons-at-risk	Existing Risk Control	Severity	Likelihood	Risk Level	Additional Risk Control Measure	Action Officer Follow-up Date)	Document for Reference
1	Assess the weight and CG of the load	Wrong Assessment of Weight	Damage to crane & lifting gears due to overloading. Injure other workers	Ensure that the load is within the lorry crane capacity Ensure that the lorry can contain the load	4	1	L	<ul style="list-style-type: none"> Reconfirmed the weight of load by second party Keep clear from any unauthorized personnel 	Foreman / Supervisor	Safe Work Procedure for lifting operation
2	Arrange proper lifting gear to be used	Wrong Selection	Body Injury Property damage	RA Briefing for all workers. Select proper lifting gear Anchor Point Check	4	1	M	Lifting can only be carried out with the recommended lifting gears and lifting machines	Foreman / Supervisor	Safe Work Procedure for lifting operation
3	Hook up lifting gear as coordinated with Crane operator	Falling from height (if rigging is required to be performed on the lorry) Improper handling	Hand and finger injury	To be carried out by qualified rigger Pipes must be strapped and secured Appropriate PPE used (hand Glove etc.) Select correct lifting gear for the task (size and capacity) All loose items on the lorry must be secured / removed	4	1	M	Increase safety awareness through safety briefing / training	Foreman / Supervisor / Rigger	Safe Work Procedure for lifting operation

1. Hazard Identification				2. Risk Evaluation				3. Risk Control		Reference
No.	Task Step	Hazard	Possible Accident/ Ill Health & Persons-at-risk	Existing Risk Control	Severity	Likelihood	Risk Level	Additional Risk Control Measure	Action Officer (Follow- up Date)	Document for Reference
4	Lifting of pipe onto Lorry	Lorry crane toppled Faulty lifting gear Struck By Object	Fatality / Bodily injury Hand and Finger Injury	Set up out rigger fully Qualified Driver Barricade lifting area Firm and solid ground Lifting equipment in good working condition (with valid cert), and within Safe Working Load Swing slowing – observed SWP Safe Work Practice for Manual Handling	5	1	M	Conduct toolbox briefing RA briefing Supplier to provide maintenance record	Lifting Supervisor / Lorry Crane operator	Safe Work Procedure for lifting operation
5	Transport from Point A to Point B	Collision Pipe Toppled Pipe fell off the lorry	Fatality / Road traffic accident	Observe Speed Limit Qualified Driver Load must be properly secured, tied down All loose item must be cleared from the lorry or tied down before transportation Red cloth to be tied at the back of the long pipe Firmly secured the pipe within the load capacity of the lorry crane	5	1	M	Conduct Toolbox Briefing	Driver / Helper	Safe Work Procedure for lifting operation

6	Unloading the load (Hook up lifting gear as coordinated with Crane operator)	Falling from height (if rigging is required to be performed on the lorry) Improper handling	Hand and finger injury	To be carried out by qualified rigger Appropriate PPE used (hand Glove etc.) Select correct lifting gear for the task (size and capacity) All loose items on the lorry must be secured / removed	4	1	M	Increase safety awareness through safety briefing / training	Foreman / Supervisor / Rigger	Safe Work Procedure for lifting operation
7	Lifting of pipe off the Lorry	Lorry crane toppled Faulty lifting gear Struck By Object	Fatality / Bodily injury Hand and Finger Injury	Set up out rigger fully Qualified Driver Barricade lifting area Firm and solid ground Lifting equipment in good working condition (with valid cert), and within Safe Working Load Swing slowing – observed SWP Safe Work Practice for Manual Handling	5	1	M	Conduct toolbox briefing RA briefing Supplier to provide maintenance record	Lifting Supervisor / Lorry Crane operator	Safe Work Procedure for lifting operation
8	Load in position, Removal of lifting gears	Falling from height (if rigging is required to be performed at height) Falling lifting gears Improper handling	Hand & Finger Injury	Use Proper PPE	1	4	L	Lifting Supervisor to conduct safety briefing	Rigger and Signalmen on site	Safe Work Procedure for lifting operation

RISK ASSESSMENT FORM			
Company	Group 3	Conducted By (Date)	
Task	Lifting of Steel Plates in Workshop using Overhead Crane		
Approved By (Date)		Next Review Date	

1. Hazard Identification				2. Risk Evaluation				3. Risk Control		Reference
No.	Task Step	Hazard	Possible Accident/III Health & Persons-at-risk	Existing Risk Control	Severity	Likelihood	Risk Level	Additional Risk Control Measure	Action Officer Follow-up Date)	Document for Reference
1	Assess the weight of the steel plates and C.G.	Wrong Assessment of Weight	Damage to crane & lifting gears due to overloading. Injure other workers	<ul style="list-style-type: none"> Calculate weight by competent person Check from technical drawing for the correct weight 	5	1	M	<ul style="list-style-type: none"> Reconfirmed the weight of load by second party Keep clear from any unauthorized personnel 	Foreman / Supervisor	Safe Work Procedure for lifting operation
2	Arrange lifting gears to be used	Hit by moving object Wrong Selection	Hand & Fingers Injury	<ul style="list-style-type: none"> Keep clear the surrounding area from any unauthorized personnel Wear appropriate PPEs Identify strong anchor points 	3	2	M	Train and brief staff on SWP	Foreman / Supervisor	Safe Work Procedure for lifting operation
3	Hook up the steel plates	Caught in between objects	Hand and finger injury	<ul style="list-style-type: none"> To be carried out be qualified rigger Appropriate PPE used (hand Glove etc.) Select correct lifting gear for the task (size and capacity) 	4	1	M	Increase safety awareness through safety briefing / training	Foreman / Supervisor / Rigger	Safe Work Procedure for lifting operation

1. Hazard Identification				2. Risk Evaluation				3. Risk Control		Reference
No.	Task Step	Hazard	Possible Accident/ Ill Health & Persons-at-risk	Existing Risk Control	Severity	Likelihood	Risk Level	Additional Risk Control Measure	Action Officer (Follow-up Date)	Document for Reference
4	Lifting Operation	Hit by swinging load Falling and caught by suspended load Crane failure Falling Load	Bodily Injury Property Damage	<ul style="list-style-type: none"> Center the Crane prior to lifting Use proper tug line Deploy qualified riggers, signalmen and crane operator Follow SWP Wear appropriate PPEs Check condition of lifting gears prior to lifting Nobody must be under the suspended load 	5	1	M	<ul style="list-style-type: none"> Keep clear the lifting zone from unauthorized personnel Deploy additional watchman Ensure load is suspended for a few minutes, make it stable before moving 	<ul style="list-style-type: none"> Supervisor Rigger/Signalman Watchman Crane Operator Rigger/Signalman Supervisor Watchman 	Safe Work Procedure for lifting operation
5	Unload the Steel Plates	Pinch Points	Hand & Finger Injuries	<ul style="list-style-type: none"> Use proper tug line Wear appropriate PPEs 	4	2	M	Ensure to have proper coordination	<ul style="list-style-type: none"> Supervisor Rigger Signalman Crane Operator 	Safe Work Procedure for lifting operation

RISK ASSESSMENT FORM			
Company	Group 4	Conducted By (Date)	
Task	Transportation of Scaffold Material from Berth Side to Vessel		
Approved By (Date)		Next Review Date	

1. Hazard Identification				2. Risk Evaluation				3. Risk Control		Reference
No.	Task Step	Hazard	Possible Accident/III Health & Persons-at-risk	Existing Risk Control	Severity	Likelihood	Risk Level	Additional Risk Control Measure	Action Officer Follow-up Date)	Document for Reference
1	Check the weight of the staging material and SWL of the crane used	Toppling of crane due to overload Falling Objects Wrong Assessment	Fatality Bodily Injury	<ul style="list-style-type: none">• Compliance to SWP• Competent & Experience person to perform assessment	5	1	M	Mark the weight of the load	Lifting Supervisor	Safe Work Procedure for lifting operation
2	Secure staging material to lifting rack	Falling objects	Fatality Hand and fingers injuries	<ul style="list-style-type: none">• Qualified Rigger• Check bar stability of load before lifting• Tug line must be secured to rack	5	1	M	Barricade the surrounding	<ul style="list-style-type: none">• Lifting Supervisor• Riggers• Signalman	Safe Work Procedure for lifting operation
3	Barricade the Surrounding (if necessary)	Falling objects	Fatality	Ensure no one is walking below the suspended load.	5	1	M	Put in sentry to inform other workers to prevent them from coming near the lifting area.	Riggers & Signalman	Safe Work Procedure for lifting operation

1. Hazard Identification				2. Risk Evaluation				3. Risk Control		Reference
No.	Task Step	Hazard	Possible Accident/ Ill Health & Persons-at-risk	Existing Risk Control	Severity	Likelihood	Risk Level	Additional Risk Control Measure	Action Officer (Follow- up Date)	Document for Reference
4	Lifting Operation	Hit by swinging load Falling and caught by suspended load Crane failure Falling Load	Bodily Injury Property Damage	<ul style="list-style-type: none"> Center the Crane prior to lifting Use proper tug line Deploy qualified riggers, signalmen and crane operator Follow SWP Wear appropriate PPEs Check condition of lifting gears prior to lifting Nobody must be under the suspended load 	5	1	M	<ul style="list-style-type: none"> Keep clear the lifting zone from unauthorized personnel Deploy additional watchman Ensure load is suspended for a few minutes, make it stable before moving 	<ul style="list-style-type: none"> Supervisor Rigger/Signalman Watchman Crane Operator Rigger/Signalman Supervisor Watchman 	Safe Work Procedure for lifting operation
5	Load in position, Removal of lifting gears	Falling from height (if rigging is required to be performed at height) Falling lifting gears Improper handling	Hand & Finger Injury	Use Proper PPE	1	4	L	Lifting Supervisor to conduct safety briefing	Rigger and Signalmen on site	Safe Work Procedure for lifting operation

RISK ASSESSMENT FORM			
Company	Group 5	Conducted By (Date)	
Task	Floating Crane Lifting/Heavy Lifting		
Approved By (Date)		Next Review Date	

1. Hazard Identification				2. Risk Evaluation				3. Risk Control		Reference
No.	Task Step	Hazard	Possible Accident/III Health & Persons-at-risk	Existing Risk Control	Severity	Likelihood	Risk Level	Additional Risk Control Measure	Action Officer Follow-up Date)	Document for Reference
1	Engineering to produce drawings for lift that includes Weight of installation and C.G, Padeye/ reinforcements	<ul style="list-style-type: none"> Wrong weight assessment Wrong lifting method proposed 	-	- Ensure Qualified Lifting Supervisor (undergone MOM lifting supervisor course) for the task - Ensure Engineering provide lifting supervisor with the necessary lifting info -Ensure safety factor are build in to all calculations -Check with Production the availability of lifting gears and lifting machines	3	1	L	-	-	Safe Work Procedure for lifting operation
2	Arrival of floating crane by tugboat and setup mooring lines	<ul style="list-style-type: none"> Anchoring points not available Anchoring points not strong Damage mooring line 	Hand and finger injuries	- Personnel to be cleared from mooring line limit -Physical check on bollard and anchoring points by Crane Section	4	1	L	Ensure proper Communication with Supervisor		Safe Work Procedure for lifting operation

1. Hazard Identification				2. Risk Evaluation				3. Risk Control		Reference
No.	Task Step	Hazard	Possible Accident/III Health & Persons-at-risk	Existing Risk Control	Severity	Likelihood	Risk Level	Additional Risk Control Measure	Action Officer Follow-up Date)	Document for Reference
3	Floating Crane crew hook up lifting gear	<ul style="list-style-type: none"> Falling from height (if rigging is required to be performed at height) Falling lifting gears Improper handling 	Hand and finger injury Bodily injuries	- Appropriate PPE used (hand Glove etc.) - Select correct lifting gear for the task (size and capacity) - Training program for rigger to enhance safety awareness - All loose items must be secured / removed - Safety harness / safety belt to be used above 2m and on hanging staging - Ensure crane operator, rigger and signalman have clear communication (walkie talkie)	3	2	L	Ensure rigging is done as per lifting plan provided by engineering	-	Safe Work Procedure for lifting operation
4	Load lifting by floating crane crew	Falling and caught by suspended load Crane failure Foul weather Toppling	Body Injury Property Damage	Use lifting signals. Barricade the area and use tag line Ensure competent crane driver Ensure proper lifting equipment used Don't stand under suspended load Ensure crane operator, rigger and signalman have clear communication (walkie talkie)	3	3	M	Put sign board and alert workers on the operation Increase safety awareness through safety briefing / training Lifting done as per lifting plan provided by engineering	Rigger and Signalmen on site	Safe Work Procedure for lifting operation

1. Hazard Identification				2. Risk Evaluation				3. Risk Control		Reference
No.	Task Step	Hazard	Possible Accident/ Ill Health & Persons-at-risk	Existing Risk Control	Severity	Likelihood	Risk Level	Additional Risk Control Measure	Action Officer (Follow-up Date)	Document for Reference
5	Load positioning	Falling from Height Restricted visibility Foul weather Inadequate lighting Miscommunication	Minor body injury	Use tag line and barricade the area Stop work during foul weather Ensure adequate lighting prior to lifting (maint) Ensure communicate to rigger via walkie talkie Ensure adequate illumination	3	2	M	Use additional lifting gear	Rigger and Signalmen on site	Safe Work Procedure for lifting operation
6	Swinging the load for proper positioning	Hit by object Restricted visibility Foul weather Inadequate lighting Miscommunication	Body Injury	Ensure tag line is installed Ensure sufficient manpower to handle tag line Don't stand under suspended load Ensure the immediate lifting area is cordoned off Stop crane movement if load swing is too extensive Stop work during foul weather Use experience-lifting crew for complicated lift. Swing slowing – observed SWP	2	2	L	Use whistle for area clearance and place signboard	Lifting Team on site	Safe Work Procedure for lifting operation

1. Hazard Identification				2. Risk Evaluation				3. Risk Control		Reference
No.	Task Step	Hazard	Possible Accident/ Ill Health & Persons-at-risk	Existing Risk Control	Severity	Likelihood	Risk Level	Additional Risk Control Measure	Action Officer (Follow-up Date)	Document for Reference
7	Load in position, Removal of lifting gears	Falling from height (if rigging is required to be performed at height) Falling lifting gears Improper handling	Hand & Finger Injury	Use Proper PPE	1	4	L	Lifting Supervisor to conduct safety briefing	Rigger and Signalmen on site	Safe Work Procedure for lifting operation

RISK ASSESSMENT FORM			
Company	Group 6	Conducted By (Date)	
Task	Lifting Scaffold Material Using Forklift		
Approved By (Date)		Next Review Date	

1. Hazard Identification				2. Risk Evaluation				3. Risk Control		Reference
No.	Task Step	Hazard	Possible Accident/III Health & Persons-at-risk	Existing Risk Control	Severity	Likelihood	Risk Level	Additional Risk Control Measure	Action Officer Follow-up Date)	Document for Reference
1	Visually inspect forklift and function test before operation commences.	Faulty mechanism can lead to accidents	Body injuries	<ul style="list-style-type: none">Use daily inspection checklist and inform immediate superior of defects found.Only trained forklift operator.Ensure all visual and audio signals are functioning.Pre-planned maintenance schedule ensure Forklift in good condition	1	1	L	-	Trained Forklift Driver	Safe Work Procedure for Forklift Operation

1. Hazard Identification				2. Risk Evaluation				3. Risk Control		Reference
No.	Task Step	Hazard	Possible Accident/ Ill Health & Persons-at-risk	Existing Risk Control	Severity	Likelihood	Risk Level	Additional Risk Control Measure	Action Officer (Follow-up Date)	Document for Reference
2	Operating the forklift	Knock by forklift Speeding Faulty Brake	Body injuries or fatality	<ul style="list-style-type: none"> • Qualify Operator • Forklift well-maintain • Checklist for forklift operator • Drive slowly. Observe speed limit. Reduce speed if necessary. • Keep fork about 1 foot above ground. • Only trained forklift operators are allowed to operate. 	5	1	M	Assist co-worker to make sure nobody is on the driveway Keep a good lookout when approaching corners or blind spots.	Scaffolding Supervisor / Foreman Trained Forklift Driver	Safe Work Procedure for Forklift Operation
3	Lifting the load	-Overload -Toppling of scaffold materials -Congested surroundings - Heavy human traffic.	-Property damage -Body injuries to somebody	<ul style="list-style-type: none"> • Ensure no overloading • Secure the load • Barricade the area if necessary • Check Surrounding 	3	3	M	Operator to check safe working load	Scaffolding Supervisor / Foreman Trained Forklift Driver	Safe Work Procedure for Forklift Operation

1. Hazard Identification				2. Risk Evaluation				3. Risk Control		Reference
No.	Task Step	Hazard	Possible Accident/ Ill Health & Persons-at-risk	Existing Risk Control	Severity	Likelihood	Risk Level	Additional Risk Control Measure	Action Officer (Follow-up Date)	Document for Reference
4	Transporting to designated area	Obstruction on driveway Speeding. Uneven surface Uneven distribution of load.	Body injuries to somebody Property Damage	<ul style="list-style-type: none"> To drive at low speed and right direction Passage to be kept clear House keeping well maintained Plan the route Keep a good lookout for even surface during transportation and avoid going over any debris. If item transported obstruct the forklift operator's view, move in the reverse direction. 	4	2	M	Keep a good lookout when approaching corners or blind spots.	Trained forklift driver	Safe Work Procedure for Forklift Operation
4	Unloading	The load may slip out from fork Toppling of scaffold materials Congested surroundings	Property damage (or) body injury to somebody	<ul style="list-style-type: none"> Barricade the area No unauthorized person near by Barricade the area if necessary Check Surrounding 	3	2	L	-	-	Safe Work Procedure for Forklift Operation
5	Backing out and park the forklift	Vision block	Property damage (or) Body injury	<ul style="list-style-type: none"> Warning buzzer activated Back view mirror Ensure the operator has clear back view 	5	1	M	Assist co-worker to make sure nobody is on the driveway	Scaffolding Supervisor	Safe Work Procedure for Forklift Operation

RISK ASSESSMENT FORM			
Company	Group 7	Conducted By (Date)	
Task	Mobile Crane Lifting of Irregular Shapes Structure		
Approved By (Date)		Next Review Date	

1. Hazard Identification				2. Risk Evaluation				3. Risk Control		Reference
No.	Task Step	Hazard	Possible Accident/III Health & Persons-at-risk	Existing Risk Control	Severity	Likelihood	Risk Level	Additional Risk Control Measure	Action Officer Follow-up Date)	Document for Reference
1	Conduct meeting for the related section	Wrong calculation / info	-	<ul style="list-style-type: none">The lifting info reviewed by the assigned person	1	1	L	-	-	Safe Work Procedure for Lifting operation
2	Assess the weight and CG of the irregular shapes structure	Wrong Assessment of Weight	Damage to crane & lifting gears due to overloading. Injure other workers	Ensure that the load is within the mobile crane capacity Ensure lifting path is cleared from obstruction	4	1	L	<ul style="list-style-type: none">Reconfirmed the weight of load by second partyKeep clear from any unauthorized personnel	Foreman / Supervisor	Safe Work Procedure for lifting operation
3	Arrange proper lifting gear to be used	Wrong Selection	Body Injury Property damage	RA Briefing for all workers. Select proper lifting gear Anchor Point Check	4	1	M	Lifting can only be carried out with the recommended lifting gears and lifting machines	Foreman / Supervisor	Safe Work Procedure for lifting operation

1. Hazard Identification				2. Risk Evaluation				3. Risk Control		Reference
No.	Task Step	Hazard	Possible Accident/ Ill Health & Persons-at-risk	Existing Risk Control	Severity	Likelihood	Risk Level	Additional Risk Control Measure	Action Officer (Follow- up Date)	Document for Reference
4	Hook up lifting gear as coordinated with Crane operator and Signalman	Falling from height (if rigging is required to be performed at height) Falling lifting gears Improper handling	Hand and finger injury	To be carried out by qualified rigger Appropriate PPE used (hand Glove etc.) Select correct lifting gear for the task (size and capacity) All loose items must be secured / removed Safety harness / safety belt to be used above 2m and on hanging staging Ensure crane operator, rigger and signalman have clear communication (walkie talkie)	4	1	M	Increase safety awareness through safety briefing / training	Lifting Supervisor	Safe Work Procedure for lifting operation
5	Operation test lift	Crane collapse	Strike by falling object	<ul style="list-style-type: none">• Barricade. Nobody nearby the suspended load• Ensure the load is stable and within the lifting capacity of the crane• Check C.G of load• Ensure crane on stable ground	5	2	M	Pre-briefing before test lift	Lifting Supervisor (Foreman, Supervisor)	

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6	Actual Load lifting	Falling and caught by suspended load Crane failure Foul weather Toppling	Body Injury Property Damage	Use lifting signals. Barricade the area and use tag line Ensure competent crane driver Ensure proper lifting equipment used Don't stand under suspended load Ensure crane operator, rigger and signalman have clear communication (walkie talkie) Check ground movement	3	3	M	Put sign board and alert workers on the operation Increase safety awareness through safety briefing / training	Rigger and Signalmen on site	Safe Work Procedure for lifting operation
7	Load positioning	Falling from Height Restricted visibility Foul weather Inadequate lighting Miscommunication	Minor body injury	Use tag line and barricade the area Stop work during foul weather Ensure adequate lighting prior to lifting (maint) Ensure communicate to rigger via walkie talkie Ensure adequate illumination	3	2	M	Use additional lifting gear	Rigger and Signalmen on site	Safe Work Procedure for lifting operation

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8	Swinging the load for proper positioning	Hit by object Restricted visibility Foul weather Inadequate lighting Miscommunication	Body Injury	Ensure tag line is installed Ensure sufficient manpower to handle tag line Don't stand under suspended load Ensure the immediate lifting area is cordoned off Stop crane movement if load swing is too extensive Stop work during foul weather Use experience-lifting crew for complicated lift. Swing slowing – observed SWP	2	2	L	Use whistle for area clearance and place signboard	Lifting Team on site	Safe Work Procedure for lifting operation
9	Load in position, Removal of lifting gears	Falling from height (if rigging is required to be performed at height) Falling lifting gears Improper handling	Hand & Finger Injury	Use Proper PPE	1	4	L	Lifting Supervisor to conduct safety briefing	Rigger and Signalmen on site	Safe Work Procedure for lifting operation

RISK ASSESSMENT FORM			
Company	Group 8	Conducted By (Date)	
Task	Mobile Crane Lifting of Steel Plates		
Approved By (Date)		Next Review Date	

1. Hazard Identification				2. Risk Evaluation				3. Risk Control		Reference
No.	Task Step	Hazard	Possible Accident/III Health & Persons-at-risk	Existing Risk Control	Severity	Likelihood	Risk Level	Additional Risk Control Measure	Action Officer Follow-up Date)	Document for Reference
1	Assess the weight and CG of the steel plates	Wrong Assessment of Weight	Damage to crane & lifting gears due to overloading. Injure other workers	Ensure that the load is within the crane capacity Ensure lifting path is cleared from obstruction	4	1	L	<ul style="list-style-type: none">Reconfirmed the weight of load by second partyKeep clear from any unauthorized personnel	Foreman / Supervisor	Safe Work Procedure for lifting operation
2	Arrange proper lifting gear to be used (Plate cramp or Long hook)	Wrong Selection	Body Injury Property damage	RA Briefing for all workers. Select proper lifting gear Anchor Point Check	4	1	M	Lifting can only be carried out with the recommended lifting gears and lifting machines	Foreman / Supervisor	Safe Work Procedure for lifting operation
3	Hook up lifting gear as coordinated with Crane operator	Falling from height (if rigging is required to be performed on the height) Improper handling	Hand and finger injury	To be carried out be qualified rigger Appropriate PPE used (hand Glove etc.) Select correct lifting gear for the task (size and capacity) - inspected All loose items on the lorry must be secured / removed	4	1	M	Increase safety awareness through safety briefing / training	Foreman / Supervisor / Rigger	Safe Work Procedure for lifting operation

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4	Load lifting	Falling and caught by suspended load Crane failure Foul weather Toppling	Body Injury Property Damage	Use lifting signals. Barricade the area and use tag line Ensure competent crane driver Ensure proper lifting equipment used Don't stand under suspended load Ensure crane operator, rigger and signalman have clear communication (walkie talkie) Check ground movement	3	3	M	Put sign board and alert workers on the operation Increase safety awareness through safety briefing / training	Rigger and Signalmen on site	Safe Work Procedure for lifting operation
5	Load positioning	Falling from Height Restricted visibility Foul weather Inadequate lighting Miscommunication	Minor body injury	Use tag line and barricade the area Stop work during foul weather Ensure adequate lighting prior to lifting (maint) Ensure communicate to rigger via walkie talkie Ensure adequate illumination	3	2	M	Use additional lifting gear	Rigger and Signalmen on site	Safe Work Procedure for lifting operation

1. Hazard Identification				2. Risk Evaluation				3. Risk Control		Reference
No.	Task Step	Hazard	Possible Accident/ Ill Health & Persons-at-risk	Existing Risk Control	Severity	Likelihood	Risk Level	Additional Risk Control Measure	Action Officer (Follow-up Date)	Document for Reference
6	Swinging the load for proper positioning	Hit by object Restricted visibility Foul weather Inadequate lighting Miscommunication	Body Injury	Ensure tag line is installed Ensure sufficient manpower to handle tag line Don't stand under suspended load Ensure the immediate lifting area is cordoned off Stop crane movement if load swing is too extensive Stop work during foul weather Use experience-lifting crew for complicated lift. Swing slowing – observed SWP	2	2	L	Use whistle for area clearance and place signboard	Lifting Team on site	Safe Work Procedure for lifting operation
7	Load in position, Removal of lifting gears Unload the steel plate	Falling from height (if rigging is required to be performed at height) Falling lifting gears Improper handling	Hand & Finger Injury	Use Proper PPE	1	4	L	Lifting Supervisor to conduct safety briefing	Rigger and Signalmen on site	Safe Work Procedure for lifting operation

RISK ASSESSMENT FORM										
Company		Group 9			Conducted By (Date)					
Task		Lifting of Pipes Using Tower Crane								
Approved By (Date)					Next Review Date					
1. Hazard Identification				2. Risk Evaluation				3. Risk Control		Reference
No.	Task Step	Hazard	Possible Accident/III Health & Persons-at-risk	Existing Risk Control	Severity	Likelihood	Risk Level	Additional Risk Control Measure	Action Officer Follow-up Date)	Document for Reference
1	Assess the weight and CG of the load	Wrong Assessment of Weight	Damage to crane & lifting gears due to overloading. Injured other workers	Ensure that the load is within the tower crane capacity Ensure that the lifting path is cleared.	4	1	L	<ul style="list-style-type: none"> Reconfirmed the weight of load by second party Keep clear from any unauthorized personnel 	Foreman / Supervisor	Safe Work Procedure for lifting operation
2	Arrange proper lifting gear to be used	Wrong Selection	Body Injury Property damage	RA Briefing for all workers. Select proper lifting gear Anchor Point Check	4	1	M	Lifting can only be carried out with the recommended lifting gears and lifting machines	Foreman / Supervisor	Safe Work Procedure for lifting operation
3	Hook up lifting gear as coordinated with Crane operator and Signalman	Falling from height (if rigging is required to be performed at height) Falling lifting gears Improper handling	Hand and finger injury	To be carried out by qualified rigger Appropriate PPE used (hand Glove etc.) Select correct lifting gear for the task (size and capacity) All loose items must be secured / removed Safety harness / safety belt to be used above 2m and on hanging staging Ensure tower crane operator, rigger and signalman have clear communication (walkie talkie)	4	1	M	Increase safety awareness through safety briefing / training	Lifting Supervisor	Safe Work Procedure for lifting operation

1. Hazard Identification				2. Risk Evaluation				3. Risk Control		Reference
No.	Task Step	Hazard	Possible Accident/ Ill Health & Persons-at-risk	Existing Risk Control	Severity	Likelihood	Risk Level	Additional Risk Control Measure	Action Officer (Follow-up Date)	Document for Reference
4	Load lifting	Falling and caught by suspended load Crane failure Foul weather Toppling	Body Injury Property Damage	Use lifting signals. Barricade the area and use tag line Ensure competent crane driver Ensure proper lifting equipment used Don't stand under suspended load Ensure crane operator, rigger and signalman have clear communication (walkie talkie)	3	3	M	Put sign board and alert workers on the operation Increase safety awareness through safety briefing / training	Rigger and Signalmen on site	Safe Work Procedure for lifting operation
5	Load positioning	Falling from Height Restricted visibility Foul weather Inadequate lighting Miscommunic ation	Minor body injury	Use tag line and barricade the area Stop work during foul weather Ensure adequate lighting prior to lifting (maint) Ensure communicate to rigger via walkie talkie Ensure adequate illumination	3	2	M	Use additional lifting gear	Rigger and Signalmen on site	Safe Work Procedure for lifting operation

1. Hazard Identification				2. Risk Evaluation				3. Risk Control		Reference
No.	Task Step	Hazard	Possible Accident/ Ill Health & Persons-at-risk	Existing Risk Control	Severity	Likelihood	Risk Level	Additional Risk Control Measure	Action Officer (Follow-up Date)	Document for Reference
6	Swinging the load for proper positioning	Hit by object Restricted visibility Foul weather Inadequate lighting Miscommunication	Body Injury	Ensure tag line is installed Ensure sufficient manpower to handle tag line Don't stand under suspended load Ensure the immediate lifting area is cordoned off Stop crane movement if load swing is too extensive Stop work during foul weather Use experience-lifting crew for complicated lift. Swing slowing – observed SWP	2	2	L	Use whistle for area clearance and place signboard Crane siren	Lifting Team on site	Safe Work Procedure for lifting operation
8	Load in position, Removal of lifting gears	Falling from height (if rigging is required to be performed at height) Falling lifting gears Improper handling	Hand & Finger Injury	Use Proper PPE	1	4	L	Lifting Supervisor to conduct safety briefing	Rigger and Signalmen on site	Safe Work Procedure for lifting operation

RISK ASSESSMENT FORM			
Company	Group 10	Conducted By (Date)	
Task	Forklift Transportation of Steel Ladder		
Approved By (Date)		Next Review Date	

1. Hazard Identification				2. Risk Evaluation				3. Risk Control		Reference
No.	Task Step	Hazard	Possible Accident/III Health & Persons-at-risk	Existing Risk Control	Severity	Likelihood	Risk Level	Additional Risk Control Measure	Action Officer Follow-up Date)	Document for Reference
1	Visually inspect forklift and function test before operation commences.	Faulty mechanism can lead to accidents	Body injuries	<ul style="list-style-type: none">Use daily inspection checklist and inform immediate superior of defects found.Only trained forklift operator.Ensure all visual and audio signals are functioning.Pre-planned maintenance schedule ensure Forklift in good condition	1	1	L	-	Trained Forklift Driver	Safe Work Procedure for Forklift Operation
2	Operating the forklift	Knock by forklift Speeding Faulty Brake	Body injuries or fatality	<ul style="list-style-type: none">Qualify OperatorForklift well-maintainChecklist for forklift operatorDrive slowly. Observe speed limit. Reduce speed if necessary.Keep fork about 1 foot above ground.Only trained forklift operators are allowed to operate.	5	1	M	Assist co-worker to make sure nobody is on the driveway Keep a good lookout when approaching corners or blind spots.	Scaffolding Supervisor / Foreman Trained Forklift Driver	Safe Work Procedure for Forklift Operation

1. Hazard Identification				2. Risk Evaluation				3. Risk Control		Reference
No.	Task Step	Hazard	Possible Accident/Ill Health & Persons-at-risk	Existing Risk Control	Severity	Likelihood	Risk Level	Additional Risk Control Measure	Action Officer Follow-up Date)	Document for Reference
3	Lifting the load	-Overload -Toppling of scaffold materials -Congested surroundings - Heavy human traffic.	-Property damage -Body injuries to somebody	<ul style="list-style-type: none"> • Ensure no overloading • Secure the load • Barricade the area if necessary • Check Surrounding • Secure steel ladder with strapping belt 	3	3	M	Operator to check safe working load	Scaffolding Supervisor / Foreman Trained Forklift Driver	Safe Work Procedure for Forklift Operation
4	Transporting to designated area	Obstruction on driveway Speeding. Uneven surface Uneven distribution of load.	Body injuries to somebody Property Damage	<ul style="list-style-type: none"> • To drive at low speed and right direction • Passage to be kept clear • House keeping well maintained • Plan the route • Keep a good lookout for even surface during transportation and avoid going over any debris. • If item transported obstruct the forklift operator's view, move in the reverse direction. 	4	2	M	Keep a good lookout when approaching corners or blind spots.	Trained forklift driver	Safe Work Procedure for Forklift Operation

1. Hazard Identification				2. Risk Evaluation				3. Risk Control		Reference
No.	Task Step	Hazard	Possible Accident/III Health & Persons-at-risk	Existing Risk Control	Severity	Likelihood	Risk Level	Additional Risk Control Measure	Action Officer Follow-up Date)	Document for Reference
5	Unloading	The load may slip out from fork Toppling of scaffold materials Congested surroundings	Property damage (or) body injury to somebody	<ul style="list-style-type: none"> Barricade the area No unauthorized person near by Barricade the area if necessary Check Surrounding 	3	2	L	-	-	Safe Work Procedure for Forklift Operation
6	Backing out and park the forklift	Vision block	Property damage (or) Body injury	<ul style="list-style-type: none"> Warning buzzer activated Back view mirror Ensure the operator has clear back view 	5	1	M	Assist co-worker to make sure nobody is on the driveway	Scaffolding Supervisor	Safe Work Procedure for Forklift Operation