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METHOD STATEMENT

LIFTING OF GAS CYLINDER

Rev.	Date	Description	Prepared By	Checked By	Approved By

SUMMARY OF REVISION HISTORY

Rev.	Date	Section	Page(s)	Description of Change

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1. INTRODUCTION

This Method Statement serves the purpose of providing all the necessary information required to safely carry out the Lifting of gas cylinders for [Company Name] using 30 Ton Mobile Crane. A copy of the method statement and drawing shall be made available to all persons directly involved with the operation. After the supervisors and personnel shall be required to sign a document in which they agree that they have understood all the procedures that are to be carried out and have familiarized themselves with it.

2. DEFINITION

- 4.1. Client [Name Here]
- 4.2. HSE -Health, Safety and Environment
- 4.3. Metric Ton- (1000Kgs)

3. SCOPE

Lifting of the gas cylinder using 30 Ton Mobile Crane

The Method statement shall be referred to the site in charge upon completion of the scope of work this document refers to.

4. GENERAL INFORMATION

4.4. Site Information

- All activities are to be attempted during daylight hours if possible. If the task cannot be completed during daylight hours, then adequate lighting is to be supplied by the Client.
- Any lifting will not commence if the visibility is impaired due to fog, sandstorm, excessive rain, or other reasons.
- A weather forecast from the local Met Office is to be requested before lifting.
- The local Met Office is to be contacted to supply the following information:
 - A daily forecast was faxed through at 7 a.m.
 - A daily 7-day look ahead is transmitted at the same time.
- Lifting is to be carried for wind speed <9.8m/s.
- Crane standing area and the slewing area should be free from obstacles.
- The ground should be leveled & compacted.

4.5. Personal Protective Equipment (PPE)

- Hard Hats Approved
- Fire Retardant Clothing (Overall)
- Safety boot
- Safety Glass (clear)
- Leather Gloves

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- Mask
- High Visibility Vest

4.6. Toolbox Talk

- A toolbox talk will be carried out before starting a job daily, making sure that every individual understands their roles and responsibilities throughout the job.
- The toolbox is to be conducted in as many languages as are required to achieve this objective.
- The toolbox talk should always emphasize safety for all activities involved in completing the job. Always be reminded of the word "SAFETY FIRST".
- All personnel involved in the activities should sign on a toolbox record sheet.

5. METHOD STATEMENT

Note: This method statement represents the procedure to be followed, drawings, and risk assessments to ensure the safe and professional completion of the project scope.

5.1. Assembly of Crane

- 5.1.1. At a designated date/time our 30 Ton Mobile Crane will be mobilized to the site.
- 5.1.2. A necessary permit is to be obtained before set up and operation in the demarcated area.
- 5.1.3. New personnel arriving on site will be given a site safety induction briefing to establish a Safe System of Work, which will be in force for the duration of all activities at the site. Personnel will also be briefed on the correct use of Personal Protective Equipment (PPE).
- 5.1.4. The exact set-up location for the crane will be surveyed for available space, sufficient ground-bearing capabilities, underground services, and obstructions. Any underground services or obstructions in the set-up location will be noted and discussed with the client with a view to temporary protection or temporary removal/reinstatement as appropriate before crane setup.
- 5.1.5. The risk assessment will form the basis of the pre-task talk involving all personnel concerned with mobilizing and setting up the crane(s). Each person will be briefed on his specific tasks during mobilizing and crane set-up.
- 5.1.6. Once the crane will reach the site and take a position at a particular location suitable place to achieve maximum distance, acquire us working radius as per the lifting plan.
- 5.1.7. A helper will project 100% of the outrigger out from the crane.
- 5.1.8. Helpers will put a wooden crane mat below the outrigger to maintain leveling of the crane to the ground.
- 5.1.9. Helpers will adjust the height of the outrigger and maintain the leveling of the crane outrigger parallel to the ground.
- 5.1.10. Then for making the hook free, the rigger will give an appropriate signal to the operator to up the boom and for loosening down the wire rope for detaching the hook from the rope when the hook will become free from the rope, the helper will unhook it.
- 5.1.11. Reevees will be made as per the required configuration.

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- 5.1.12. Once the crane is set up and the job foremen/operator is gratified in all respects, the operator will be asked to cautiously raise the boom to get the required height. The operator will simulate the lift to check the radius and reach of the crane for any necessary adjustments, if required the job foremen will double-check in all aspects, to ensure everything is perfect.
- 5.1.13. These procedures for crane setting will be done if the crane has to be shifted to another location for the job as per the preferred radius mentioned by the supervisor (in charge).

5.2. Lifting of gas cylinder

- 5.2.1. On completion of crane setup and rigging the operator will set the boom to the required configuration as per the lifting plan.
- 5.2.2. Dimensional checks for the lift radius and the swing radius are to be verified.
- 5.2.3. The lifting tackle will be inspected for condition and the correct color code before all lifting operations.
- 5.2.4. Lifting tackles will be connected to the hook block as per lifting study/supervisor (in charge) instruction.
- 5.2.5. Weather conditions will be closely monitored before and during all lifting operations.
- 5.2.6. The boom tip will be positioned directly over the Centre of gravity of the gas cylinder. (Centre of gravity is given by Client)
- 5.2.7. The lifting tackle will be attached to the lifting points of the gas cylinder.
- 5.2.8. The crane(s) will lift until all the lifting slings are tight. The gas cylinder weight will be monitored using the safe load indicator (SLI) equipment and checked by the Lifting Supervisor (in charge) that it is as predicted.
- 5.2.9. The verticality of the hoist ropes will be checked.
- 5.2.10. The gas cylinder will be loosened; the item is progressively raised checking the gaps until it is slightly clear of the support. The load will be monitored using the SLI equipment and checked by the Lifting Supervisor (in charge) that it is as predicted.
- 5.2.11. A safety check will be carried out to ensure all lifting tackle is secured.
- 5.2.12. Tag lines will be fitted to the gas cylinder.
- 5.2.13. Confirmation to proceed with the operation will be approved by the Lifting Supervisor (in charge).
- 5.2.14. The crane(s) will then commence hoisting until the gas cylinder is fully clear from the support.
- 5.2.15. The crane(s) operator will then lift the gas cylinder to the required height and swing the boom toward the installation area (The installation area will confirm by the client).
- 5.2.16. The slewing area should be clear from all obstacles.
- 5.2.17. Once the load reaches overhead the erection point, the site supervisor (in charge) will instruct to lower the hook. The process will be progressing very slowly and it will continue until the load is completely positioned (the final position will be as per the lifting study).
- 5.2.18. Once the Load is completely positioned at the erection point, lifting tackles will be released from the lifting points.



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6.2. Crane Load Chart

Operator's Manual for Truck Crane

ZOOMLION

Table 1-5 Lifting capacity table

Unit: kg

Radius (m)	Main boom						
	Outriggers and telescoping cylinder I fully extended, over sides and rear						
	10.7 m	14.7 m	18.7 m	24.4 m	30.4 m	36.1 m	42.0 m
3.0	30000	25000	19400				
3.5	26000	23500	19400				
4.0	23000	22000	19400				
4.5	21000	20500	19400	16600			
5.0	19500	19000	18200	15800			
5.5	18000	17500	16800	15000			
6.0	16500	16500	15600	14000	12200		
6.5	15000	15000	14400	13000	11400		
7.0	13500	13200	13200	12200	10800		
7.5	12500	12200	12200	11500	10200	8600	
8.0	11500	11200	11200	10800	9600	8200	
9.0		9600	9400	9600	8700	7400	6400
10.0		8100	8000	8500	7900	6800	6000
11.0		6800	6700	7400	7200	6200	5600
12.0		5600	5500	6200	6800	5800	5200
13.0			4600	5300	5800	5400	4800
14.0			3800	4500	5000	5000	4400
15.0			3100	3800	4300	4600	4100
16.0				3300	3800	4000	3800
18.0				2450	2900	3100	3300
20.0				1750	2200	2500	2700
22.0					1650	1900	2100
24.0					1200	1450	1650
26.0					800	1100	1300
28.0						800	1000
30.0						550	750
32.0							500
I	0	4.0	8.0	8.0	8.0	8.0	8.0
II	0	0	0	5.7	11.7	17.4	23.3
Reeving	8	8	6	5	4	3	3
Hook	30 tons						



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6.3. Crane Specification

Operator's Manual for Truck Crane

ZOOMLION

1.3 Technical data

1.3.1 Overall view

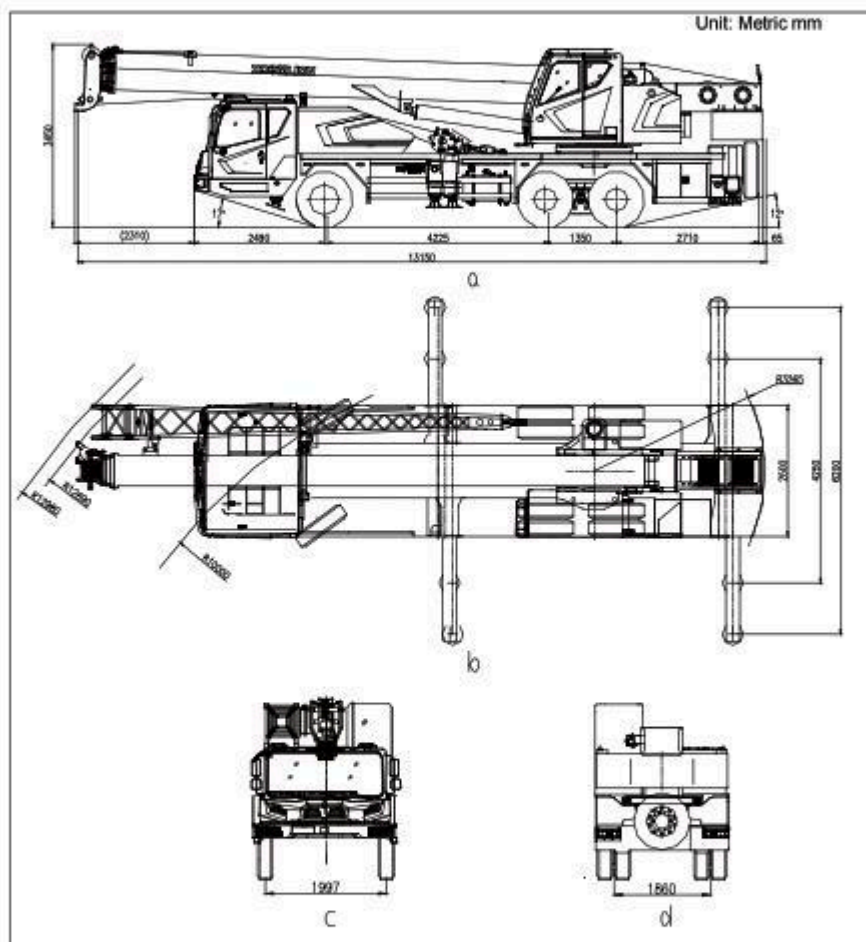


Figure 1-10 Overall view

Description of Crane

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7. Attachments

7.1. Risk Assessment

7.2. PTW



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