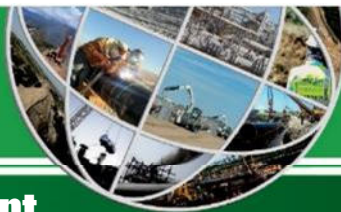


# LESSON LEARNT



**PREPARED BY: Corporate QHSE Dept.**

N° 04/2019 Date: April 2019

**OBJECT GAS CYLINDER HANDLING**

During pipeline construction activities, a consistent number of gas cylinder are handled. Once the supplier sends gas cylinder to the main camp, they are stored in a gas storage depot and subsequently are sent by truck to various construction site locations. Gas cylinder are properly transported firmly closed in transportation racks.

A big number of gas cylinder handling is therefore performed on site (RoW or Plant), both manually and mechanically. On the workplace gas cylinders are often moved one by one from transportation rack to pay welder's rack. A number of incidents – both accidents and near misses – have been recorded during cylinder handling on site with following consequences / potential:

- shoulder ligament ruptures (2);
- musculoskeletal disorders;
- improper lifting operations;
- slips and fall risks;
- lack of efficiency – increased risk of shortcutting while handling cylinders.

Risks raise when handling is performed on site even in adverse weather conditions, thus mechanical lifting is preferred.

**PURPOSE**

- decreasing / eliminating the risks factors;
- implementing a safe handling system.

**SOLUTION**

SICIM decided to implement a specific lifting device to guarantee safe handling of gas cylinders during all activities. The r&d process started with the support of a specialized producer/supplier in order to guarantee the correct feasibility and the certification. The development process went through a number of prototypes in order to analyze the device features and obtain the best performances. It has proven to be the more suitable handling cylinders method for outdoor works because reliable also in adverse weather conditions and in poor ground conditions.

Main features:

1. Excellent lifting capacity
2. Proper fail to safe system
3. Suitable for long transportation in the RoW
4. Flexible for different sizes of cylinder
5. Proper size

**CONTINUOUS IMPROVEMENT**

- The Gas cylinder lifting device has been certified by the manufacturer. A Safety Manual for the correct use – application has also been developed.
- Specific training to workers on site for the correct use of the lifting device during testing phase.
- Initial period of use under strict HSE control for reliability monitoring during testing phase.
- Aim of systematic USE of the lifting device in every construction sites.



**RECEPTION BY THE PROJECT**

**WHICH ACTIONS IDENTIFIED TO BE IMPLEMENTED IN THE PROJECT:**

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<b>Project Manager:</b> Signature: _____	<b>HSE Project Manager:</b> Signature: _____
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