



## LPG Gas Explosion Incident

**Number** 2022-19

**Date** 07.11.2022

### Summary:

On Monday, 07.11.2022, at around 07:55 hrs, a propane gas re-filling activity was ongoing at a 3rd party owned and operated canteen at the DWMC Project Site. During this process, there was an escape of propane gas which led to the formation of vapour cloud. The vapour cloud found an ignition source thereby resulting in subsequent explosion. The canteen was not contracted by the EPC.

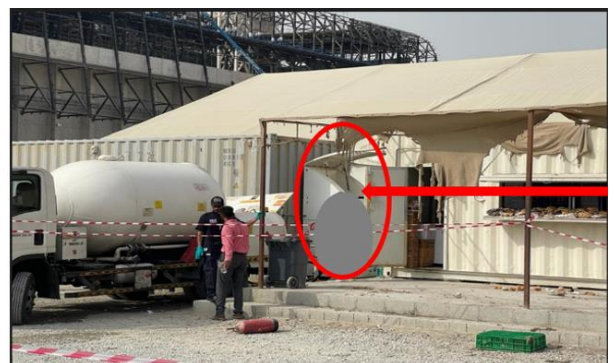
### Outcomes:

Five persons - two workers from the gas company and three workers from the EPC workforce sustained various degrees of burn injury wounds during the explosion, but none were in any life-threatening situation.

### Incident Classification: RWC



*Incident Location: 3<sup>rd</sup> party owned and operated canteen*



*Propane gas storage tank installed by the 3<sup>rd</sup> party canteen operator next to the site mess hall*

### Root Causes and Contributory Factors

#### Immediate Cause:

- Escape of the propane gas due to the disconnection of the gas hose during the gas refilling operation.

#### Contributory Factors:

- The inability/authority of the EPC management to influence the presence or not of this canteen contractor on site.
- The 3<sup>rd</sup> party canteen owner installed an LPG tank storage unit and started refilling LPG gas on site without approval or knowledge of the EPC management.

### Lesson Learned

- Do not conduct any re-filling of any compressed gas cylinders on site.
- Ensure that all empty compressed gas cylinders are taken out of site by authorised and licensed vendors and re-filled/exchanged only by authorised and licensed vendors.
- Ensure that all contractors or operators wishing to conduct any activities on the project site are subjected to the controls of the EPC HSE Management System.
- All contractors should follow the project site HSE rules and procedures
- All food service providers wishing to operate on site should be pre-qualified by the EPC HSE team.
- Do not bring any vehicles/equipment/materials to site without approval from the EPC HSE team.



Every Lesson Learned is an opportunity to avoid recurrences.  
What have you done to avoid a similar incident on your project?

