

CUSTOMER SUCCESS STORY

YARA FERTILISER PLANT

India, February 2023 – VISICS was implemented at the Yara fertiliser plant in Uttar Pradesh, India, to achieve real-time confined space monitoring across three tower locations during their 30-day outage with additional monitoring stations for managers to have an overview of the work being performed.

The design

During this turnaround, the VISICS system was monitoring 3 multi-levelled confined space locations with gas detection, in addition to the external monitoring of a 105 meter tower being painted.

For this job, VISICS deployed 4 manway systems, 1 monitoring station and 3 people.

In addition, 2 monitoring stations were set up at strategic management locations on site for a continuous overview of the work being performed.

Exceptional outcomes

- 1) **Early detection of Ammonia** gas presence in one of the UREA Reactors, while people were present inside the confined space.

The case:

- **Industry:** Fertilisers
- **Country:** India
- **Objective:**
Real-time safety monitoring for improved safety program
- **Maintenance activities:**
Painting and alkaline resistant tile replacement, pipe replacement, tray inspection and rubber lining replacement
- **Third party integrations:**
Blackline; Realwear



During the project a VISICS Operator noticed a spike in the NH3 reading and alerted the Customer Field Officer and the VISICS Field Operator.

As the gas reading continued to rise, the space was remotely evacuated using the Alarm Unit and entry was stopped until the gas returned to safe working values.

The customer confirmed the alarm readings were accurate and later confirmed re-entry into the space.

Khemraj Dureja, General Manager of Maintenance at YARA commented “*contractors feel safe inside the reactors more than ever before because of the VISICS monitoring system and the live Gas detection.*”

- 2) **Live vigilance of heavy rigging of overflow pipe inside 45M height urea reactor where space is very limited.**
- 3) **Identification of several safety trends** that were able to be addressed during toolbox sessions; daily.

For **Contractor Supervisor Harsh Patel**, “*This information was invaluable and allowed us to easily address any safety matters immediately, keeping our people safe.*”

- 4) **Management visibility** of all confined space jobs from a central location, making it easy for supervisors to manage the job.

Jignesh Bhadja, Deputy Manager of Planning and Reliability at YARA, explained that having a central monitoring area for management allowed him to benchmark his planning to ensure the project ran smoothly, without delay.

About VISICS and the Access Technology Group

The Access Technology Group is an innovative Dutch company located in the centre of The Netherlands. We started in 2002 with solutions for wireless infrastructures, public safety and security (Access Innovations BV). In 2005 we added ICT services (internet and phone) to our range of solutions (Access Communications BV). As we sensed an increased demand in mobile solutions, especially in heavy industries with a need for increased safety levels at lower costs, we developed VISICS – the innovative and mobile solution for safe and efficient maintenance turnarounds and shutdowns. The first generation VISICS was launched in 2007. Since then, we focused more and more on this specific industrial application (Mobile Shutdown System BV), which resulted in a mobile high-tech solution providing on demand state-of-the-art observation, registration and communication techniques. And the innovation continues.

Nowadays, more than 60 people are working on the development, innovation, installation, logistics and support of VISICS. And even more customers all over the world use VISICS as their safety and efficiency solution during maintenance turnarounds and shutdowns.

For more information about the VISICS system and the Access Technology Group, please go to www.visics.eu and www.accesstechnology.nl

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