



From the Operations Manager's Desk

Welcome to "AROGAS News Letter.

Haya Water Shatti-Qurum Sewage Treatment plant had been continuously experiencing high Hydrogen Sulphide(H₂S) levels and receiving frequent complaints from the nearby Ministry and public. Arabian Oil&Gasfield Services, keeping in line with its commitment to contribute for Better environment, approached Haya Water with its Odour Control Solutions from our Principals, M/s LIKUSTA GmbH, a trusted and established solution to reduce the H₂S levels in the Sewage Treatment. In 2013/2014, Haya Water after detailed technical review, agreed to provide the opportunity to AROGAS and LIKUSTA to provide the solution. However, the Challenge was that AROGAS should completely, Design, Supply, Install, Commission and Operate the Odour Control System (OCS) for 12 months and handover to Haya Water, meeting the stringent Technical and Project Specifications, laid down by Haya Water.

It is with great satisfaction and pride we inform that AROGAS and Likusta have successfully commissioned the OCS at Shatti Qurum STP on 28 January-2014 and dedicated for Public Utility, to the satisfaction of Haya Water. A team of Engineers worked consistently to make this a reality. This Newsletter provides the details of the Project for your reading. We look forward to more opportunities to better environment in the Sultanate of Oman.

Hope you enjoy the read.

I look forward to your views and feedback. Do write to me at saran@arogasllc.com

Warm regards,
Saran KPK
Operations Manager

AROGAS Update

- AROGAS with our Principal M/s LIKUSTA GmbH has successfully completed the Design, Supply, Installation and Commissioning of Odour Control System at Shatti Qurum STP with a capacity of 12,000 m³/h.
- Eliminated 99.9% the complete odour from the balancing tank at Shatti Qurum STP.

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AROGAS NEWS LETTER

Contributing to Better Environment in Oman - AROGAS/ LIKUSTA Helps Haya Water in H2S Reduction

AROGAS with our Principal M/s LIKUSTA GmbH has successfully completed the Design, Supply, Installation and Commissioning of Odour Control System at Shatti Qurum STP with a capacity of 12,000 m³/h.

Offensive odours are one of the most frequently reported environmental pollution incidents by schools and residents at Bait Al Reem area near Shatti Qurum STP. Formerly, people did not understand that odours were not merely nuisances but rather higher levels of odorous chemical compounds could produce hazardous gases. Hydrogen sulphide (H₂S) for instance, can cause injury or death at 100 ppm or greater. When H₂S is oxidized by bacteria, it forms sulphuric acid which can corrode concrete sewer pipes and metal structures at waste water treatment plant.

We (Arabian Oil & Gasfield Services LLC) along with our Principal (M/s LIKUSTA GmbH) has taken up this job to eliminate the complete Odours by Odour Control System with a capacity of 12,000 m³/h.

We have used two stages of filtration. The technology we used for the first stage of filtration is by using the chemical scrubber which are the most flexible, adaptable and reliable vapour-phase odour control technology that can be used to treat virtually any water-soluble contaminant. The chemical scrubbers can handle 12,000 m³/h of Waste-gas with a very high amount of H₂S (Hydrogen sulphide) more than 500 PPM within this single stage design. Although they can be maintenance-intensive and require chemical handling, the systems are easy to install at moderate capital costs.

The technology used for the second stage of filtration is Catalytic Carbon Filter with an airflow of 12,000 m³/h. The Catalytic Carbon Filter used is of high quality, expandable, simple and low maintenance. It also wanted a safe to handle media with a very high H₂S loading capacity and high tolerance levels of VOCs and carbon-di-oxide. After entering the vessels, foul airflows through a densely packed bed of activated carbon that removes H₂S and other odour causing organic constituents. It has a very high absorption capacity exceeding 0.30 g of H₂S for each cm³ of carbon, giving it a capacity four to five times greater than other types of media. The media does not require water or chemicals – only electrical power to operate. Carbon change out is the primary maintenance required.

We are very happy to announce that we have eliminated 99.9% the complete odour from the balancing tank at Shatti Qurum STP. The residents of that area and especially schools are very happy and satisfied with our job and we (Arabian Oil & Gasfield Services and LIKUSTA GmbH) consider this as a great achievement.



Mr. Cataldo Parise
(Managing Director of M/s Likusta GmbH)

