

## COVERING AERATION TANKS & PROVISION OF ODOR CONTROL UNIT

### PALM JUMEIRAH SU1 – STP at PALM JUMEIRAH ISLAND - DUBAI, U.A.E

Palm Jumeirah Island is one of the well known famous landmarks in Dubai - U.A.E, an assured destination for every tourist, enriched with hotels which provides relaxing environment with pleasure ambience.

Palm Jumeirah SU1 STP is located in Palm Jumeirah Island. This treatment plant utilizing diffused aeration system

**Treatment of Odorous Air to eliminate Sulfur dioxide & its derivatives**



followed by MBR filtration. Two trains of treatment capacity 8,500 m<sup>3</sup>/day each constitute the plant process of which only one train currently in functional. Each train is equipped with blowers, capable of supplying airflow up to 6,000 m<sup>3</sup>/h. Odor causes nuisance to the adjacent hotel building, where hotel guests getting disturbed due to bad smells that spread over one kilometer surrounding areas, therefore odor nuisance issue needed to be solved immediately.

Main idea of this project was to divert air, released from the activated sludge process – anoxic & aeration tanks, through an odor control system for neutralization prior to release into atmosphere. Installed odor control unit is connected with duct works on anoxic & aeration tanks, which featured with covers, ducts collect all the odor released from treatment process. Odor control unit is based on specially developed activated carbon which adsorbs Hydrogen sulfide gas as well as other odor causing compounds in the foul air.

#### Project Data

- Capacity 14,000 m<sup>3</sup>/hour
- Activated Carbon Filter
- Foul Air Draw Duct Works
- H<sub>2</sub>S Monitoring System

Our installed system guarantees to prevent any bad smells & noxious odorous released from aeration tank and we proudly confirms we mitigated the main odor problem at lowest cost, based on best in technology to obtain highest efficiency to obtain clean air for relaxing leisure environment.

