

COVERING AERATION TANKS & PROVISION OF ODOR CONTROL UNIT

PALM JUMEIRAH SU1 – STP, UAE

Palm Jumeirah Island is one of the famous landmarks in UAE, an assured destination for every tourist, full of hotels which provides the relaxing environment.

Palm Jumeirah SU1 STP is located in Palm Jumeirah Island at crescent near Astoria Waldorf Hotel. This treatment plant is utilizing diffused aeration system followed by MBR filtration. Two trains of treatment capacity 8,500 m³/day each constitute the plant process of which only one train is functional. Each train is equipped with blowers that are capable of supplying airflow up to 6,000 m³/h. Odor causes nuisance to the neighboring hotel guests because of bad smell that spread over one kilometer in that area, therefore problem needed to be solved immediately.

**Treatment of
Odorous Air with
eliminating
Sulfur Hydroxide**



PROJECT DATA

- Capacity 14,000 m³/day
- Activated Carbon Filter
- Duct Work
- H₂S Monitoring

Main idea of the project was to direct air, which is released from the activated sludge process, aeration tanks and MBR stream, through an odor control system for neutralization before exhaust. Installed odor control unit is connected with duct work along the aeration tank to collect all the odor released from the treatment process in the STP. Odor control unit is based on specially developed activated carbon which adsorbs Hydrogen sulfide gas as well as other odor causing compounds.

Our installed system guarantees to prevent any bad smell & noxious odorous released from the aeration tank and we can proudly confirm we mitigated the main problem with lowest cost & highest efficiency.

