

Submersible Aerators for a 300 kld ETP at a chemical plant of Prasol Chemicals Pvt. Ltd., at Mahad in Maharashtra



About the Project:

In order to make the industrial areas pollution free, it is necessary for chemical industries to set up their own Effluent Treatment Plants to ensure that the corrosive / polluting effluents are treated before discharging from the plant. Many companies are using such treated effluent for various utility purposes in the plant.

Prasol Chemicals Pvt. Ltd., a Mumbai based company, has been in the field of manufacturing specialty chemicals for more than two decades. They have come up with a new plant at Mahad in Maharashtra as a part of their expansion. They have set up a 300 kld Effluent Treatment Plant to treat the effluents generated within their plant.

The Challenge

As a part of the treatment process, they needed equipment to inject air into the effluent so as to reduce the Chemical Oxygen Demand (COD) of the effluent. Their ETP has four tanks of size 7 m x 7 m x 5.5 m each. They required Aerators for each of the tanks.

The Solution

Based on our earlier successful experience of similar application in pharmaceutical industries, KISHOR suggested Dry Motor Submersible Aerators with four nozzles, one for each tank. These aerators have advantages over conventional surface aerators in terms of installation and maintenance perspective. Model ASTRA-SA 100-400 with four nozzles attachment with 15 kW / 20 hp / 960 rpm motor is supplied and commissioned successfully.

The Benefits

The aerators are installed in July 2020 and are working satisfactory since then. The customer is taking the lab tests of incoming effluent and outgoing effluent on regular basis. As per their feedback, the incoming COD is 5000 mg / ltr and the outgoing COD is in the range of 250-300 mg / ltr which satisfies their requirement.

The Customer Opinion

The aerators are working satisfactory since August 2020 round the clock and customer is satisfied about the process results of the same. Based on this, they have issued a Performance Certificate for the aerators.