

Successful 5 Years Completion of 1st International Project

80 KLD ETP for L'Oréal Kenya



INTRODUCTION

The L'OREAL is trying to give clean and healthy environment from the Production activities to act in a responsible and environmentally sustainable manner in our business. We are tried to contribute in global effort of the environment and always improving Environmental Management System. This means we must meet all the requirements for the safe discharge of our wastewater effluents and in strict and accordance with all other legal requirements. This wastewater treatment activity is important to the L'OREAL group because in the event of a malfunction or breakdown, to avoid any pollution and any risk of damaging the groups image.

THE TEAM

Complete Design, Engineering done by M/s **AQUACARE SOLUTION ENVIRO ENGINEERS**. Electro Mechanical Supply has been done from INDIA. Installation, Commissioning & PG Test with operation training successfully completed by ASEE Team at L'Oréal Kenya



Team Behind the Success

THE SOLUTION

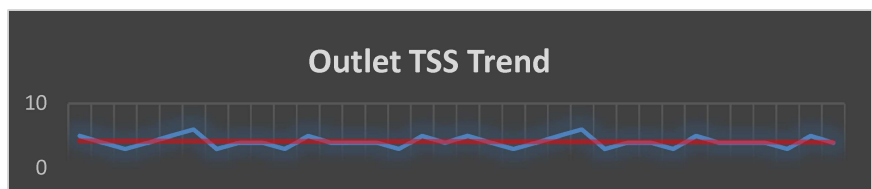
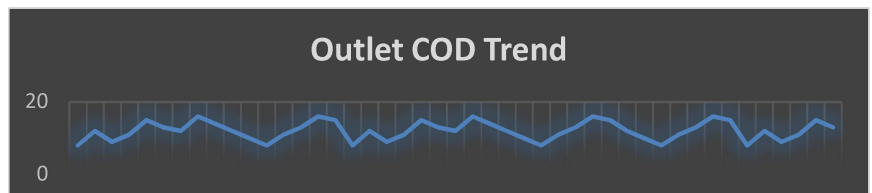
In 2016 L'Oréal Kenya awarded turnkey 80 KLD ETP project to M/s **Aquacare Solution Enviro Engineers**. Which is successfully completed within 4 months of time duration in 2017

The plant is running with designed capacity and desired output water quality meeting all local norms for last 5 years. Which is great achievement and reference.

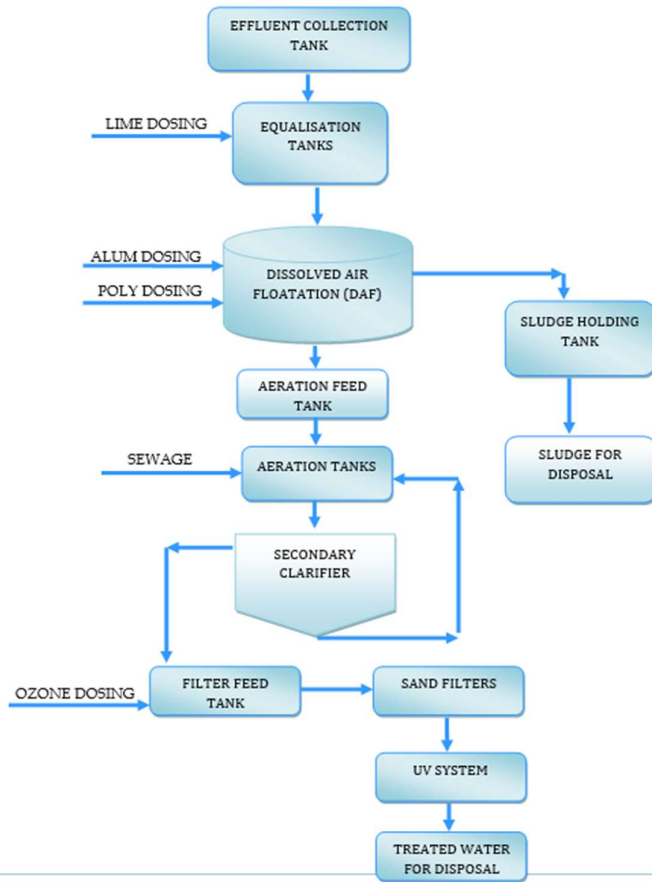


DESIGN & ACHIEVED WATER QUALITY

Parameter	Unit	Raw Effluent	Design Treated Water Quality	Avg.Achieved Treated Water Quality
Flow	m3/day	40 - 50	50	50
pH	--	5.5 to 7.5	6 to 8.5	7.5
Total Suspended Solids	mg/lit.	3000	<20	<~5
COD	mg/lit.	8,000-22000	<50	<~20
BOD (3 days at 27°C)	mg/lit.	1000-3000	<30	<~10
Oil & Grease	mg/lit.	500 - 1600	<10	<~5



PROCESS FLOW DIAGRAM



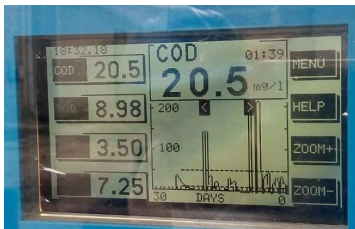
THE TREATMENT SCHEME

The Effluent would be collected in Collection Tank where the variations in flow and characteristics are dampened, which otherwise can lead to operational problems and moreover it allows a constant flow rate downstream. From collection tank effluent pumped to Equalization Tanks.

In equalization tank pH will be correct by Lime dosing & then equalized Effluent will then pumped to the Dissolved Air Flootation (DAF). Alum as coagulant & Poly as flocculent will dosed to DAF. The Treated water from DAF will be collect in Aeration Feed Tank & Sludge will be collecting in Sludge Holding Tank. The treated effluent would be sent to Aeration Tank. Sewage effluent also feed to Aeration Tank. The excess bio-solids formed in the biological process are separated in the Aeration Tank. The outlet from the aeration tanks will be collected in the Secondary Clarifier and the clear water which is overflowing will be routed to the Filter Feed tank. The clear supernatant is sent to the tertiary polishing section comprising of a Ozone system, Pressure Sand Filter & UV system. The treated water shall be disposed through proper channel.

The excess biological sludge generated from the Aeration Tank, which is settled and removed. The sludge disposed by client.

THE ACHIEVEMENTS



After Successful Completion of Installation and Commissioning of Effluent Treatment Plant M/s L'Oréal achieving the purpose of treating the effluent and meeting the local norms consistently.

Reach Out to Us to Build your Contribution to Environment Success Story

M/s **AQUACARE SOLUTION ENVIRO ENGINEERS**

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