

W.O.G.GROUP OF COMPANIES

Commitment Towards Cleaner Environment

CASE STUDY

WWTP TECHNOLOGIES FOR DISCHARGE FOR BREWERIES INDUSTRY

WOG Technologies has installed various projects on Breweries for waste water treatment by introducing various technologies as per the industrial parameters.

WOG designed the WWTP Plant to treat the Effluent (from Breweries) to treat in such manner with minimum discharge to meet the followings objectives:

- Extensive reduce of outlet parameters for further applications.
- Effective technologies to fulfill the present industrial water requirement.

Water Stress growing worldwide with minimal rate of recovery. RO, Clarifiers, Filters and various ETP Process are presently best and most energy saving methods for Breweries and providing effective treatment where effluent is treated in such manner to meet the present water requirement as water supplies from conventional sources are expensive.

A state of art treatment process is designed to achieve Environment Sustainable development of most energy efficient treatment of complex wastewater.

Plant Details:

WOG carried out a *Plant* study to evaluate the performance of reducing parameters for System for treating the critical effluent of particular breweries industries WOG have installed various capacities of treatment plants and successfully validate the technology and the design basis of the treatment plant.

Treatment Schemes:

Pre-filtration is followed by Anaerobic digesters which is followed through high Rate aeration Flash Mixer and effluent will be treated in clarifiers and then for filtration.

On the Basis of parameters these treatments may varies and which is followed by Anaerobic reactors to tertiary treatments to meet the outlet parameters requirement and reduce the waste generation.

Scope of Work:

The scope of work included complete Design, engineering, manufacturing, supply, supervision, installation and commissioning of the plant along with GFS Tanks and various electrical and instruments equipments.

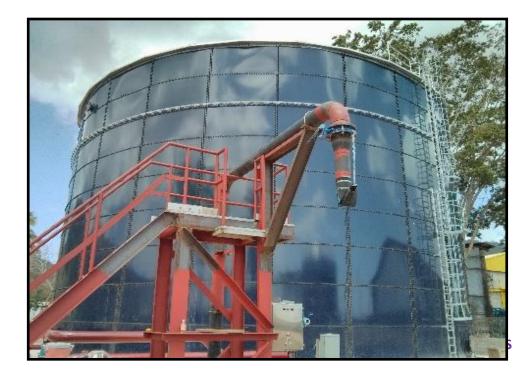
WOG handled all WWTP plants on turnkey basis.















WATER **C**HARACTERISTICS FOR VARIOUS CLIENTS:



| S.No. | Customer Name | Type of system | Capacity (m3/Day) | Parameters | Project Description |
|-------|---|-----------------------|----------------------|--|--|
| 1 | United Breweries Ltd.(a Diageo group company) | ETP & UF (RECYCLES | 1000 | Inlet Outlet | Upgradation of ETP - Pre Treatment and Ultra Filtration System |
| 2 | United Breweries Ltd.(a Diageo group company) | RO | 45 | Inlet Outlet | RO Plant |
| 3 | United Breweries Ltd.(a Diageo group company) | ETP & AHR | 2400 | Inlet Outlet | Design, Engineering, Construction, Supply, Erection & Commissioning of ETP. ETP 1000 m3/day with AHR 1800 m3/day |
| 4 | United Breweries Ltd.(a Diageo group company) | WWTP with UFRO | 1050 | Inlet Outlet | Upgradation of ETP |
| 5 | United Breweries Ltd.(a Diageo group company) | UF-RO- RECYCLE | 720 | Inlet Outlet | E&C of UF & RO System 600 KLD (720 m3/day) |
| 6 | United Breweries Ltd.(a Diageo group company) | ETP | 850 | Inlet Outlet | Design, Engineering, Construction, Supply, Erection & Commissioning of ETP -850m3/day (Revamping) & Upgradation of WTP - RO system with automation 672 m3/day |
| 7 | Blossoms breweries Ltd, Daman | ETP | 1250 | BOD 4000 20 COD 8000 140 TSS 1500 30 TDS 2000 2000 | Proposed Capacity enhancement and Modernization of ETP at Brewery at Daman-Supply, Erection & Commissioning of ETP for treatment of 1250 m3 of brewery effluent per day and revemping of existing UASB of 450 m3 |

BENEFITS:

- To minimize the waste water disposal in the environment
- Scarcity of Water around the World is self driven force for WWTP systems.
- To mitigate the individual problems of the industries with better approach and with reduced environmental impact on the ecology.
- To reuse the treated water in various forms like make up, etc in the respective industries.

W.O.G. Technologies Pte. Ltd.

60 Paya Lebar Road, # 12-27, Paya Lebar Square, Singapore -409051 Tel: +65-68216880, +65-82682912, Fax- +65-68216890. Email: info@woggroup.com













