

**BRASSERIE DES MILLE COLLINES (UNIBRA) -
Kigali (RWA)**
Biological treatment of the brewery waste water

Brasserie des Mille Collines of the UNIBRA group is a new brewery in the neighborhood of Kigali (Ruanda). The waste water from the brew house and the bottling hall is collected in a pump pit and pumped over a curved screen to remove solid waste. The pretreated waste water is stored in a buffer tank and subsequently biologically treated in an activated sludge system. It concerns a discontinuous reactor where the different treatment steps are performed in one tank: aeration, denitrification, sedimentation and decantation.

Trevi designed the plant and delivered the electromechanical equipment, electrical cabinet, PLC steering and SCADA. The concrete works and the mounting on site was performed by the brewery, with support and consultancy by Trevi. Start-up period and further ongoing operation of the plant is being followed by Trevi in Belgium by means of the SCADA application.

The plant was designed in a first phase to treat a maximum flow of 200 m³/day and a COD-load of 50 kg/day. The design allows to increase the treatment capacity in the future with a factor 2,5.



Aeration Basin