

HYDREX ASIA LIMITED

WASTEWATER TREATMENT FOR BEVERAGE INDUSTRY INSTALLATION REFERENCE



Business Nature:

- Design and Supply of Water and Wastewater Treatment Plants
- Project Management and Construction of Water and Wastewater Treatment Plants

Main Products:

- Design and Supply of a Complete Range of Water Treatment Systems
- Design and Supply of a Complete Range of Sewage and Wastewater Treatment Systems
- Design and Supply of Wastewater Recovery and Recycle Systems
- Supply of Anaerobic Systems for High Strength Industrial Wastewaters
- Supply of Advanced Wastewater Treatment Systems for Nitrogen and Phosphorous removal

A single source water and wastewater treatment company with total capability to design, supply and construct water and effluent treatment facilities.

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HYDREX – Wastewater Treatment for Beverage Industry

Soft Drink Industry

Project A

In 1984, Hydrex won the contract for the design and supply of a wastewater treatment plant for Coca-Cola's Concentrate Plant in the Philippines among many reputed international competitors. The success was due to Hydrex's advanced and reliable plant design. The wastewater's fluctuation was very high. Its BOD and pH varied considerably from 300 to 4,500 and from 6 to 12 respectively. Hydrex's unique design not only achieved consistently the effluent quality requirements, but also provided a cost effective solution. The U.S. Headquarters of Coca-Cola was fully satisfied with the plant's performance and further awarded to Hydrex the wastewater treatment plant contracts for its Concentrate Plants in Shanghai, Indonesia and Pakistan.



Wastewater Treatment System for Coca Cola's Concentrate Plant in the Philippines

Project B

In 1994, the U.S. Headquarters of Coca-Cola signed an agreement with Hydrex as its preferred designer and supplier for wastewater treatment plants in Asia. Coca-Cola's bottling plants in South-east Asia region invited Hydrex to design and supply wastewater treatment plants for them. To mention a few, the plants in San Fernando and Santa Rosa in the Philippines, and the plants in Hanoi and Ho Chi Minh City, Vietnam etc.

Wastewater Treatment System for Coca Cola's Bottling Plant in Hanoi, Vietnam

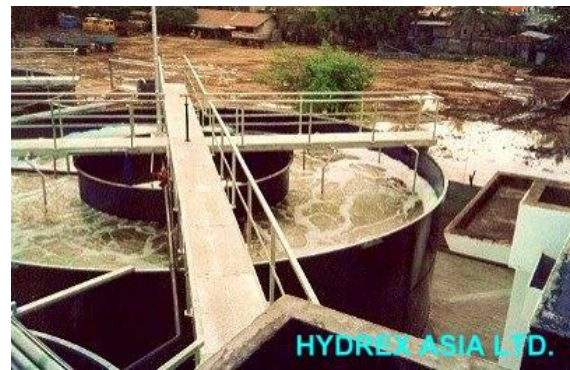


Project C

In April 2003, Hydrex was invited to participate a tender for a wastewater treatment system for a Coca-Cola bottling plant in Cambodia. The plant shall be able to be disassembled and re-erected in another location for future expansion. Hydrex bid package was evaluated to be the most responsive and competitive among four tenders. The design and supply contract was awarded to Hydrex after the approval was obtained from the Coca Cola's Division and Global Environmental Assurance in Atlanta.



Glass Fused Steel Process Tanks



Concentric Aeration and Settling Tanks

Project D

In 2008, Hydrex won the contract for the design and supply of a wastewater treatment plant for Coca-Cola's Concentrate Plant in the Shanghai, China. Due to influent concentrations and flows, aerobic treatment has been chosen for secondary biological treatment. Since Coca-Cola has committed to absolute greenhouse gas emissions reductions, Hydrex designed and supplied a RBC as the 1st stage roughing process in order to reduce electricity consumption. The second stage biological treatment is single stage nitrification/denitrification.

The biologically treated effluent undergoes a tertiary treatment for further removal of suspended solids, soluble organics, phosphorus and color. The treatment process involves chemical precipitation and flocculation, followed by sedimentation, media and carbon filtrations and ozonation.



Anoxic/Oxic Biological Treatment



**Tertiary Treatment
and Color Removal System**

Brewery Industry

Project A

In 1983, San Miguel (Hong Kong) appointed Hydrex to design and supply a wastewater treatment system for its Brewery. The plant required being flexible and reliable because it was subject to expand or re-locate. Hydrex designed the plant in concentric circular steel configuration so that the tanks could still be re-used in the future.



Cylindrical Wastewater Treatment Station for San Miguel Brewery, Hong Kong

Project B

In 1984, the technical inspection team of Hua Guang Brewery, Shanghai visited the treatment plant in San Miguel and other similar installations. This team decided to appoint Hydrex to design and supply the wastewater treatment plant for its Brewery in Shanghai.



Enclosed Multi-Story Wastewater Treatment plant for Hua Guang Brewery, Shanghai

Project C

In 2012, Hydrex supplied the Glass Fused Steel Process Tanks for a Wastewater Treatment System for a Brewery in Cambodia.



Glass Fused Steel Process Tanks



Glass Fused Steel Process Tanks with roof for the tall Anaerobic Reactor and Calamity Tank