

# HYDREX ASIA LIMITED

## WASTEWATER TREATMENT FOR INDUSTRIAL ESTATE 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.**

---

**HYDREX ASIA LTD.**

701, BEVERLEY COMMERCIAL CENTRE,  
87-105 CHATHAM ROAD, KLN, HONG KONG.  
PHONE: (852) 2527-9544  
E-mail: [info@hydrexasia.com](mailto:info@hydrexasia.com) [www.hydrexasia.com](http://www.hydrexasia.com)

---

## **HYDREX – Wastewater Treatment for Industrial Estate**

### **Project A**

In 1993, Hydrex designed and constructed an centralized wastewater treatment plant Phase 1, capacity of 4,000 cu. meter per day, for the Light Industry & Science Park (LISP-I) of the Philippines in Cabuyao, Laguna. The plant was equipped with the most efficient aeration system and process tanks. The developer was fully satisfied with the design and performance of the plant. Thus, Hydrex was awarded the Phase 2 expansion for the same Park in 1994.

Again, in 1995, the same developer ordered a duplicate plant LISP-II in Calamba.

After that, in early 1997, the joint-vent companies of the same developer bought two similar centralized wastewater treatment plants for the industrial parks in Cebu and Batangas. Although all equipment and tanks were shipped in early 1998 to the site, due to the 1997 Asian Financial Crisis, very few tenants moved in these parks in the following 14 years. The equipment and tanks were stored on site during that period. Until 2012 and 2013, the equipment and tanks were installed and commissioned, all of them were functioning and looked like new ones. The credits go to Hydrex's design and materials of construction of the plants.

Due to such credits, Hydrex was again awarded the 6<sup>th</sup> wastewater treatment plant contract in April of 2015.



Centralized Wastewater Treatment Plant for Light Industry & Science Park  
of the Philippines (LISP-I) in Cabuyao, Laguna

**Project B**



**Model of Water & Wastewater Treatment Plant**

In 1997, Hydrex was appointed by a Japanese main contractor to construct a water and wastewater treatment plant, Phase I, in an industrial park located at the rural area of Jakarta, Indonesia. Hydrex utilized the most advanced modular tank design to construct the plant in order to enhance the attractive appearance and to simplify the maintenance. The outstanding design and quality of the plant were much appreciated by end user.



**Wastewater Treatment Plant**



**Water Treatment Plant**

### **Project C**

In 2011 and 2013, the Owner of Project B awarded the wastewater treatment plant expansion contracts to design and supply the Phase 2 and Phase 3 expansion of the modular plants respectively due the outstanding plant design. In addition, the low operating / maintenance with the attractive appearance were much appreciated by owner and tenants.



**Neutralization Tank and  
a Biological Treatment Concentric Module**



**Aerobic Sludge Digester**

### **Project D**

In 1998, among strong competition between local and overseas contractors, Hydrex won the contract of design and supply of a wastewater treatment plant for the First Philippine Industrial Park (FPIP), Sto. Tomas, Batangas, Philippines. The treatment capacity of wastewater treatment plant was 2,200 cu. meter per day.

In 2000, since the first wastewater treatment plant met all the expectations from the developer, another wastewater treatment plant (No.2) contract was awarded to Hydrex for the next site. The treatment capacity of this wastewater treatment plant was 4,256 cu. meter per day.

In 2006, the developer commissioned Hydrex to expanded the treatment system from 4,256 increased to 12,256 cu. meter per day.

In 2013, the management company of the same group accepted the energy savings recommendation of Hydrex. The aeration equipment was upgraded and commissioned in early 2014 and that reduced about 30% of the energy for the aeration.



**Wastewater Treatment Plant**

**The wastewater treatment plant with the most efficient surface aerators for FPIP in Sto. Tomas, Batangas, Philippines**



### **Project E**

In 2012, Hydrex was invited by the Light Industry & Science Park (LISP) of the Philippines to work with its engineers and consultants to come out with a centralized wastewater plant design which can be expanded in two or three phases but without increasing the no. of process tanks and equipment in order to cope with the growth rate of its industrial park and to reduce capital investment.

Hydrex spent one year to come up with different designs and budgets. After the Owner's engineers' careful evaluation, they found that Hydrex design was flexible and met the phasing requirements. In addition, the price was the about the same as the previous installation after inflation adjustment. So, an order was placed for the phase 1 of one wastewater treatment plant in 1915. Another wastewater treatment plant Phase 1 was ordered in 1916. Both wastewater treatment plants were commissioned in 2017.

The developer was fully satisfied with the design and performance of both plants. Thus, Hydrex was awarded the wastewater treatment plant Phase 2 expansion for one of the same industrial parks in early 2019.

