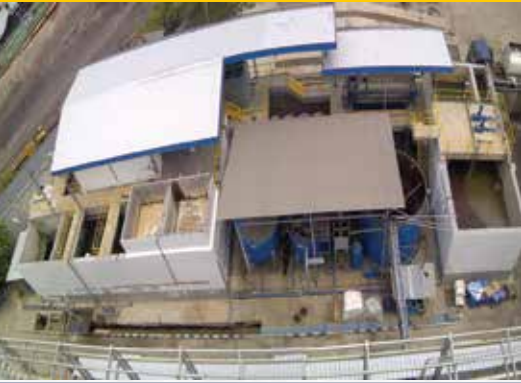




# INDUSTRIAL WATER ENGINEERS (M) SDN. BHD.

*Reliable Quality and Performance Guarantee*

*Palm Oil Refinery, Jakarta*



*Double Membrane Gas Holder, Sabah*



*Fish Processing, Malaysia*



*Chicken Slaughtering, Uzbekistan*

The most cost-effective Water & Wastewater Treatment System: **Design and Build Locally**

State-Of-Art Air/Biogas Scrubbing System and Biogas Solutions

## About Us



*Poultry*



*Glove*



*Lechate*



*Palm Oil*



*F&B*

## What We Do

Industrial Water Engineers (M) Sdn. Bhd. (a.k.a. IWE) was established in 2001 mainly “To provide innovative competitive technology with the necessary in-house technical support required for a complete and reliable Wastewater and Water Treatment System.”

## Where Are We

IWE located at Selangor, Malaysia, where 30 KM from capital city Kuala Lumpur and 20 KM from to Port Klang, second largest port of SEA.

## Design Leader

Superior quality is designed into every technology we provide. IWE can back that claim up with a steadfast reputation for dependable wastewater and water treatment solutions chosen time and again by companies worldwide. At IWE, we are continually expanding upon our knowledge and services to assist clients with pool of proven projects. We also collaborate immensely with international equipment and process specialists to provide the latest trend of systems and products to our valuable customer.

## Markets We Serve

IWE has acquired significant strength and wealth of knowledge and experience over the years. IWE has successfully completed World Class Standard's Water and Wastewater Treatment Plant (WWTP) for comprehensive range of industries: Refinery, Food and Beverage, Glove, Potable, just to name a few.

## Customer Care

IWE specialize in getting the job done. IWE provides added value across the board, from advice, engineering, and production through to complete installation and operation. We play an active role after installation by providing additional training, modem support, chemicals and spare parts supply. It's been said before, and it's worth saying again: IWE is big enough to handle any project yet small enough to care.



*2000 m3 / day chicken processing plant in Malaysia*

# Wastewater Treatment



*A successful Activated Sludge Process (ASP) in operation in an oleochemical, refinery, biodiesel complex in Indonesia.*

We, at IWE, provide the potent solutions for purifying wastewater, domestic and diverse and industrial contamination. While doing so, we ensure that the maximum amount of water is treated to the level of being reused.

A careful analysis of industrial process, wastewater streams and composition of industrial wastewater is essential. Pilot Plant studies, sample testing in our own laboratory and the use of onsite test units in preliminary stage are used to produce a system that ensures performance.

## **IWE provides the following technologies for the treatment of wastewater:-**

- Screening System (Static Screen, Rotary Drum Screen)
- Physical/Chemical Treatment System (DAF, Chemical Preparation Unit, Lamellar Plate Clarifier)
- Aerobic Biological Process (SBR, ASP, MBBR)
- Anaerobic Biological Process (Digester, UASB, EGSB, IC)
- Sludge Dewatering (Belt Press, Screw Press, Filter Press)
- Tertiary Treatment Process (Multimedia Filter, Continuous Sand Filter.)



*80 m<sup>3</sup>/hr DAF in F&B industry*



*IC for high strength wastewater*



*X-Chip MBBR in textile plant, Vietnam*

# Process Water Treatment / Waterworks

IWE has implemented more than 50 large process water treatment systems from concept to commissioning. These units range from simple side stream filtration to complex multi step treatment plants to meet specific design conditions. The ranges of water treatment plants implemented included :-

- Flocculation Clarification
- Sand Filter, Activated Carbon Filter
- Reverse Osmosis, Ultrafiltration
- Cascade Aeration
- Softener, Ion Exchange (Dual Bed, Mixed Bed)
- UV (Disinfection / TOC Reduction)



*23 MLD Surface Water Treatment Plants in Pahang, Malaysia.*

## Industrial processes are reliant on a smooth and uninterrupted water supply

Recycling industrial wastewater can increase profitability while helping to conserve water - an increasingly expensive commodity. When local discharge standards are so stringent that your treated water is better than what you're buying, Zero Liquid Discharge solutions can be the answer. IWE is a trusted global leader in helping customers determine whether a Zero Liquid Discharge solution is right for them and developing the most cost effective system to maximize water recovery.



*150 m<sup>3</sup>/hr, Auto Operated fully SS304 Multimedia filter.*



*RO Installation at a large Korean Steel Plant.*

## Other Products / Services Experience



Surface Aerator significant advantages include easy installation, minimum operation failure, no downtime for any major part replacements, good heat transfer, foam control (due to detergent and fats), etc.

Renewable energy, biogas that's generated from an anaerobic process can be stored in Biogas Membrane Holder that subsequently used continuously without any interruptions



Our clarifiers are custom designed for extreme working conditions for various industries: paper, food, beverages, refinery sewage, just to name a few. The suction feature of scrapper is to remove the bottom settled solids as quick as possible to improve the efficiency of overall treatment process.

When large sludge volume is dewatered, the most economical dewatering system, i.e. Screw Press, provides good dewatered sludge cake. The continuous design operation with low rotation speed results in an extremely low noise level, ensuring comfort working environment, little spare parts demand and result in small footprint installation.



Designed specifically to provide effective solutions for wastewater treatment, a polymer / coagulant preparation unit is designed to automatically prepare polymer and coagulant solution which are used for the removal of suspended solids in the wastewater and sludge thickening

# Project References



*Fish Processing*



*Leachate Treatment Plant*



*Piggery Waste*



*Cementboard Processing*



*Laundry*



*Chocolate Processing*

# Project References



*Palm Oil Refinery*



*Ice-Cream Processing*



*Fish Processing*



*Cattle Farm*



*Plating Processing*



*Paper Mill Industries*

What do they have in common?



The answer is **INDUSTRIAL WATER ENGINEERS.**

We associate our products and services with reliable quality and guaranteed performance.

*For further information, please contact*

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