Proudly represented in Australia, New Zealand and Philippines by:
Khatibeng is an environmental engineering company based out of Singapore, manufacturing HICLEAR packaged wastewater treatment plants. Since 1976, HICLEAR packaged wastewater treatment plants have been designed and developed with Japanese technology, delivering sludgefree and reliable performance. Our on-site waste water treatment systems are engineered to handle waste flow from a small kitchen to large shopping centers to residential complexes for various sizes. The complete system is custom built to suit the developer’s requirements and achieve specified discharge limits required as per the installation.

HICLEAR packaged wastewater treatment plants have been engineered to stringent international regulatory requirements and reliably treat sewage while being modular, economical as well as compact with practically no maintenance required. They have been installed in over 26 countries worldwide.

**Overview:**

**Headquarters:** Singapore

**Sales Offices:** Australia, India, Indonesia, Oman, Maldives, New Zealand, Sri Lanka, Vietnam

**Factory & Production Office:** Minburi, Thailand
Modular & Hybrid Wastewater Treatment Systems designed in Japan, manufactured in Thailand & Japan - based on our HICLEAR Plug and Play concept. They are delivered onsite in a ready to install condition.

Main Advantages

HICLEAR systems require comparatively less installation time and external pipe work while highlighting our main advantages of being easily upgradable and requiring lesser area for installation. They can be installed either above or below ground. It does not require sludge dewatering equipment as it does not produce any excess sludge, nor does it employ any coagulants for operation. Its inherent biology allows truly compact aeration - 50% of the aeration tank volume when compared to a conventional plant.

* Portable
* Energy efficient
* Odour-free
* No sludge disposal
* Fully automated
* Requires minimum maintenance
* Requires minimum civil work
* Requires less area
* Incrementally upgradeable
* Strong rust-free & lightweight
* Durable (Expected plant life of 25 years)
DC-Series
Aerobic Treatment Units

Treated water parameters:
BOD$_5$: 20 ppm
COD: 50 ppm
TSS: 30 ppm
Oil & Grease: 5 ppm

Applications:
Usually installed at high-rise condominiums, supermarkets, hospitals, factories, hotels and resorts

Operation & Maintenance:
Requires only occasional maintenance.

Power Consumption:
Requires electricity to operate. Supplied with high efficiency aeration systems.

Environmental Regulations:
Compliant with country specific environmental effluent discharge standards.

Zero sludge system:
Does not require additional sludge dewatering system or filter press.

Product guarantee:
Up to 5 years product warranty

Individual Product Sizing:

<table>
<thead>
<tr>
<th>Flow per day (Cubic Metres)</th>
<th>Unit length (Metres)</th>
</tr>
</thead>
<tbody>
<tr>
<td>up to 15m$^3$</td>
<td>4</td>
</tr>
<tr>
<td>up to 40m$^3$</td>
<td>6</td>
</tr>
<tr>
<td>up to 60m$^3$</td>
<td>9</td>
</tr>
<tr>
<td>up to 80m$^3$</td>
<td>12</td>
</tr>
</tbody>
</table>

Examples of Modular Capability:

<table>
<thead>
<tr>
<th>Flow per day (Cubic Metres)</th>
<th>Unit length (Metres)</th>
<th>Total Number (Units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>up to 120m$^3$</td>
<td>6</td>
<td>3</td>
</tr>
<tr>
<td>up to 250m$^3$</td>
<td>12</td>
<td>3</td>
</tr>
<tr>
<td>up to 500m$^3$</td>
<td>12</td>
<td>6</td>
</tr>
</tbody>
</table>
JRY-Series
Aerobic Treatment Units

Low noise system:
Suitable for residences and hospitals. No external blower room. Noise level <35 dB.

Applications:
Usually installed at upscale hotels and resorts with low noise requirements.

Operation & Maintenance:
Requires only minimal maintenance.

Environmental Regulations:
Compliant with country specific environmental effluent discharge standards.

Product guarantee:
Up to 5 years product warranty.

Power Consumption:
Requires electricity to operate. Supplied with high efficiency aeration systems.

Zero sludge system:
Does not require additional sludge dewatering system or filter press.

Treated water parameters:
- BOD₅: 20 ppm
- COD: 100 ppm
- TSS: 30 ppm
- Oil & Grease: 5 ppm

HICLEAR® Modular
Fibre reinforced plastic based wastewater treatment systems

Modular Wastewater Treatment Systems designed in Japan, manufactured in Thailand based on our HICLEAR Plug and Play concept. They are delivered onsite in a ready to install condition.
GT-Series
Oil & Grease Trap System

Treated water parameters:
Reduction of oil and grease up to 75%

Applications:
Usually installed at central kitchens, supermarkets, hospitals, factories, hotels and resorts

Operation & Maintenance:
Requires only occasional maintenance.

Environmental Regulations:
Compliant with country specific environmental effluent discharge standards.

Zero sludge system:
Does not require additional sludge dewatering system or filter press.

Zero power system:
Does not require electricity to operate.

Product guarantee:
Up to 5 years product warranty.
HICLEAR® Modular
Fibre reinforced plastic based wastewater treatment lift stations & grease traps

Modular Wastewater Treatment lift stations & grease traps designed in Japan, manufactured in Thailand based on our HICLEAR Plug and Play concept. They are delivered onsite in a ready to install condition.

L-Series
Lift Station System

Applications:
Usually installed at small guesthouses, military installations and camps

Power Consumption:
Requires electricity to operate. Supplied with high efficiency pumps

Operation & Maintenance:
Requires only minimal maintenance.

Product guarantee:
Up to 5 years product warranty

MT-Series
Mineral Oil Trap System

Applications:
Usually installed at petrol kiosks, oil refineries, small automotive workshops, factories, military camps

Treated water parameters:
Reduction of mineral oil up to 75%, designed for petrochemical wastewater

Operation & Maintenance:
Requires only minimal maintenance.

Zero power system:
Does not require electricity to operate

Product guarantee:
Up to 5 years product warranty
HICLEAR® Modular
Fibre reinforced plastic based wastewater treatment systems

Modular Wastewater Treatment Systems designed in Japan, manufactured in Thailand based on our HICLEAR Plug and Play concept. They are delivered onsite in a ready to install condition.

**N-Series**
Anaerobic Treatment Units

**Treated water parameters:**
- BOD$_5$: 50 ppm
- COD: 100 ppm
- TSS: 100 ppm

**Applications:**
Usually installed at small guesthouses, military installations and camps

**Operation & Maintenance:**
Requires only minimal maintenance.

**Zero power system:**
Does not require electricity to operate

**Environmental Regulations:**
Compliant with country specific environmental effluent discharge standards.

**Product guarantee:**
Up to 5 years product warranty

**Individual Product Sizing:**
- Flow per day: up to 20m$^3$
- Unit length: 6

**Examples of Modular Capability:**
- Flow per day: up to 100m$^3$
- Unit length: 12
- Total Number (Units): 3
Across the world, HICLEAR Wastewater treatment units support high rise residential complex builders, luxury resorts, food processing plants, heavy vehicle manufacturing plants, schools, hospitals, universities and more.
Choosing HICLEAR®

Across the world, HICLEAR Wastewater treatment units support highrise residential complex builders, luxury resorts, food processing plants, heavy vehicle manufacturing plants, schools, hospitals, universities and more.

Globally present
Over 22,000 installations worldwide in 26 countries and counting

No surprises
Manufactured for durability with no hidden costs, based on "install & forget" concept

On time delivery
Treatment units are shipped out on time with strict quality control measures in place compliant with the ISO 9001 standard
**Quality & Compliance**

We comply with AS1547 Australian Standards for domestic wastewater treatment.

**Khatibeng** is an ISO 9001:2015 certified organization. By ensuring strict quality control measures in place through our QMS, we fulfill our goal - which is to provide consumers with the highest quality products by assuring their performance, consistency, safety and value. This commitment is rooted in our corporate values and is essential to our continued growth.

We consistently meet our comprehensive "Global Khatibeng Quality Standards" in the design, manufacturing, and distribution of our HICLEAR packaged wastewater treatment plants as well as meet or exceed all government requirements and user expectations worldwide. We maintain these high quality standards as we design and manufacture our products by the most efficient means possible to ensure they are beneficial to the greatest number of users throughout the world.

Our commitment to quality is vital to all we do.
HICLEAR® Case Studies
Fibre reinforced plastic based wastewater treatment systems

Modular Wastewater Treatment Systems designed in Japan, manufactured in Thailand based on our HICLEAR Plug and Play concept. They are delivered onsite in a ready to install condition.

Velana International Airport
Installation Details:
Capacity: 200 m³/day
Location: Maldives
Type of System: DC-Series

Airports

Belle Vue Clinic
Installation Details:
Capacity: 150 m³/day
Location: Kolkata, India
Type of System: DC-Series

Hospitals

COMO Uma Paro Luxury Hotel
Installation Details:
Capacity: 50 m³/day
Location: Paro, Bhutan
Type of System: JRY-Series

Hotels
HICLEAR® Case Studies
Fibre reinforced plastic based wastewater treatment systems

Modular Wastewater Treatment Systems designed in Japan, manufactured in Thailand based on our HICLEAR Plug and Play concept. They are delivered onsite in a ready to install condition.

Anantara Kihavah Villas Maldives
Installation Details:
Capacity: 300 m³/day
Location: Maldives
Type of System: DC-Series

National Marine Laboratory
Installation Details:
Capacity: 40 m³/day
Location: St. John’s Island, Singapore
Type of System: JRY-Series

Electricity Vietnam Regional Headquarters
Installation Details:
Capacity: 20 m³/day
Location: Hanoi, Vietnam
Type of System: DC-Series

Resorts
Universities
Government
Modular Wastewater Treatment Systems designed in Japan, manufactured in Thailand based on our HICLEAR Plug and Play concept. They are delivered onsite in a ready to install condition.

MAS Linea Aqua Beachwear
Installation Details:
Capacity: Various
Location: Sri Lanka
Type of System: DC-Series

United Nations
Installation Details:
Capacity: Various
Location: Multiple locations
Type of System: N-Series

Defence

Nestle
Installation Details:
Capacity: Various
Location: India & Bangladesh
Type of System: DC-Series

Food & Beverage
Modular Wastewater Treatment Systems designed in Japan, manufactured in Thailand based on our HICLEAR Plug and Play concept. They are delivered onsite in a ready to install condition.

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**Aspen Group**
**Installation Details:**
Capacity: 280 m³/day
Location: Whitsunday Shores, Queensland, Australia
Type of System: JRY-Series

**Golf Course**

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**Sobha Developers**
**Installation Details:**
Capacity: 700 m³/day
Location: Bangalore, India
Type of System: DC-Series

**Residential**

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**Vietnam Singapore Industrial Park**
**Installation Details:**
Capacity: 40 m³/day
Location: Hai Phong, Vietnam
Type of System: DC-Series

**Industrial Park**
Getting in touch

For more information, please visit vhmsolutions.com.au

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