



YHR TANKS

GFS TANKS & FBE TANKS



Main Business

Environmental engineering, R&D and manufacturing of environmental equipment, operation of environmental projects, production and sales of organic fertilizer.

R&D

Three core technical systems: high-concentration organic wastewater treatment, biomass energy development and utilization, and specialized environmental equipment design and development.

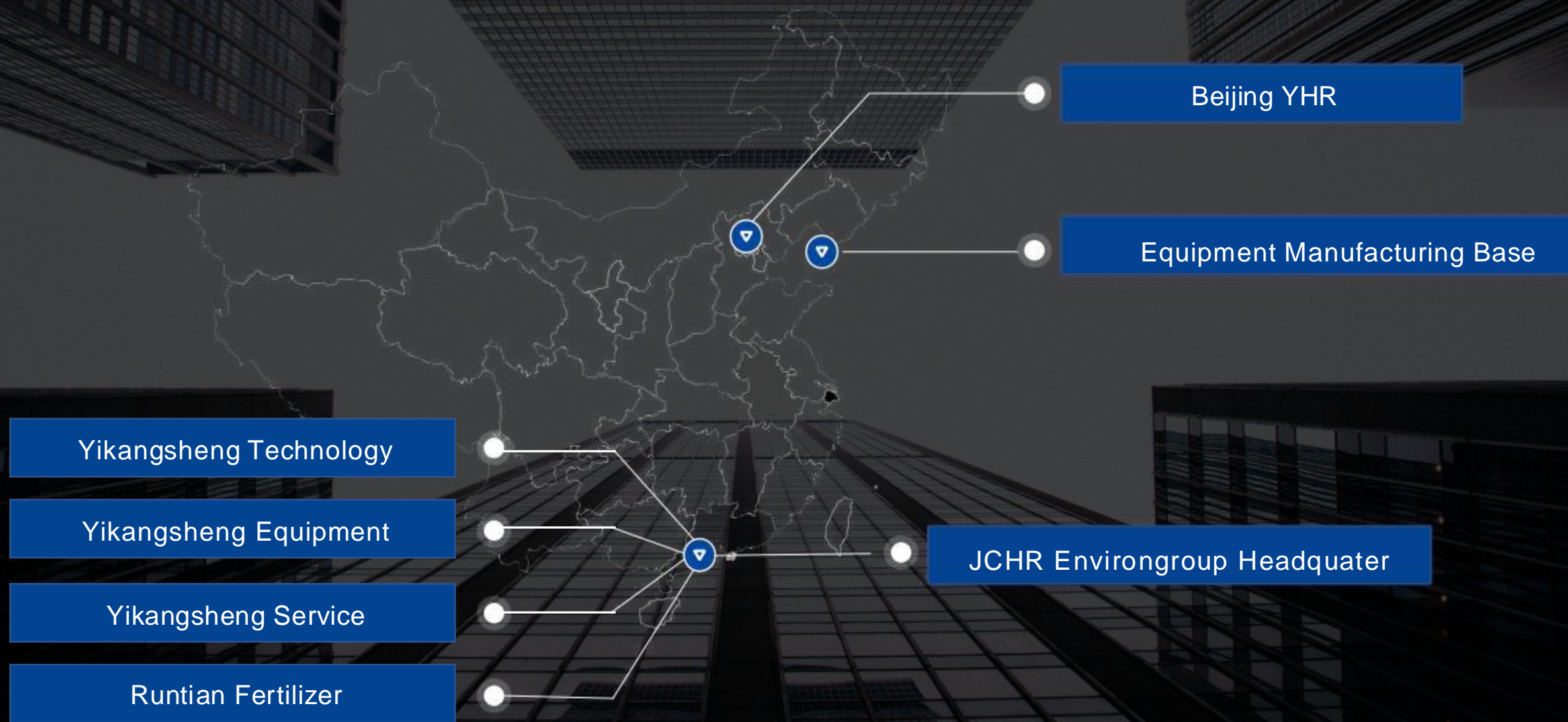


JCHR ENVIROGROUP



Juncheng Herui Environmental Technology Group Co., Ltd., abbreviated as "JCHR ENVIROGROUP" is a leading provider of comprehensive solutions in the agricultural field of environmental protection. The company focuses on areas such as agricultural and livestock pollution treatment, biogas, and rural ecological environment management. We offer comprehensive solutions for the treatment and resource utilization of "solid, liquid, and gas" pollutants.

ASSOCIATED ENTERPRISES



YHR COMPANY



YHR Environment is a wholly-owned subsidiary of JCHR, is a high-tech enterprise mainly engaged in research and development, production and sales of environmental protection equipment technology, and biomass energy engineering. YHR Environment has become the industry benchmark of China's Glass-Fused-to-Steel Tank, the first-class enterprise of standardization and modularization in the field of biomass biogas in China.

Equipment Manufacturing

GFS tank, biogas holder, biogas purification system, CSTR digesters, sewage treatment reactors.

Biogas EPC Service

Design, construction, installation, commissioning and training service.

Investment & Financing

Investment in organic waste centralized treatment center, biogas or bio-CNG projects, organic fertilizer production, etc.

Operation Supervision

Operational supervision and guidance service to biogas project owners

YHR MANUFACTURING BASE



100 acres

Tangshan Caofeidian
manufacturing base
occupies 100 acres of land



230000 plates

Produce over 80,000 GFS
panels and 150,000 FBE
panels per year.



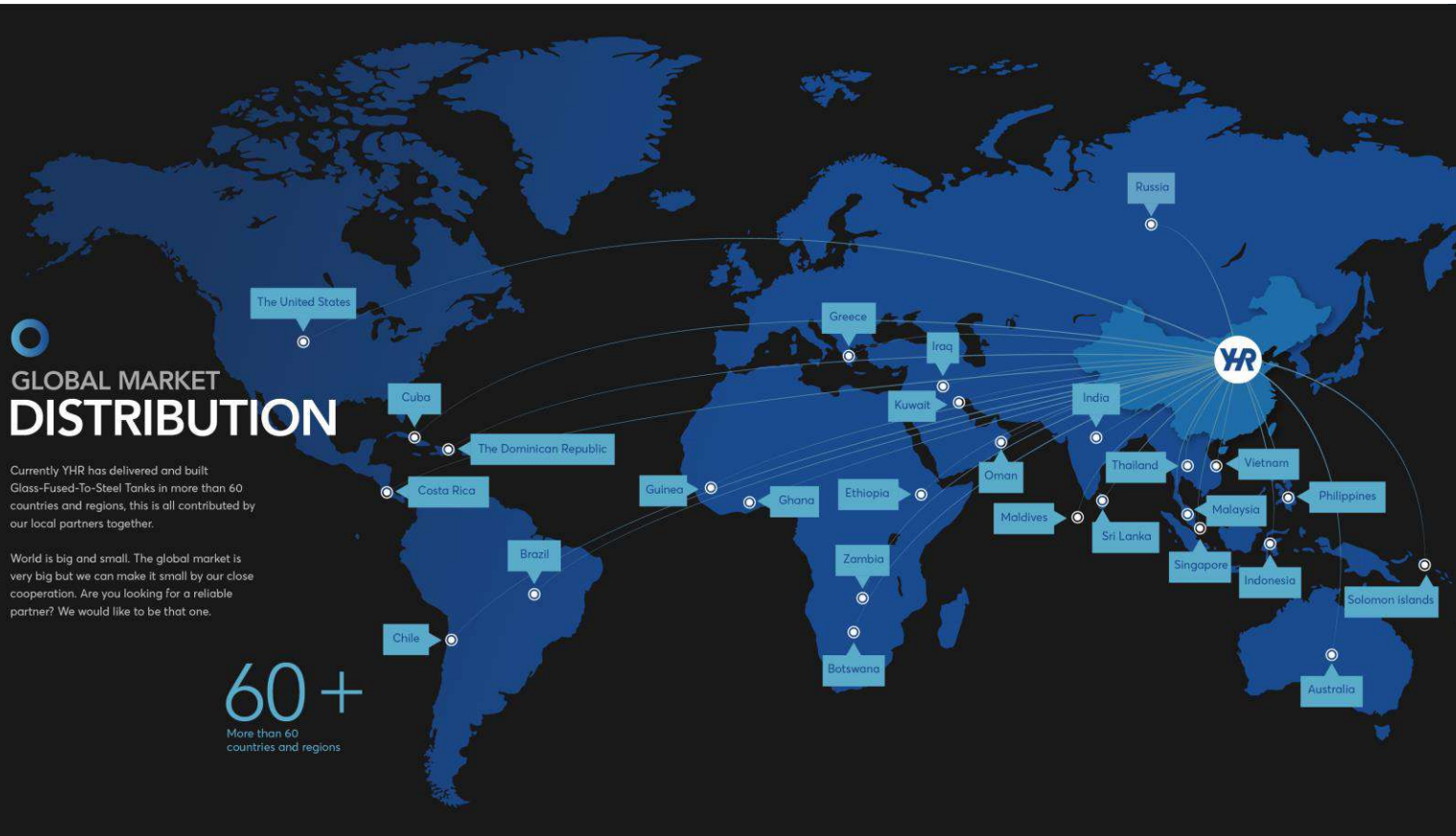
3 products

- GFS tanks,
- FBE tanks,
- SS tanks.

YHR TANKS



GLOBAL MARKET



- YHR is committed to provide integrated equipment and solutions for global clients.
- YHR's equipment has been distributed in Russia, Southeast Asia, Australia, Middle East, Africa, Europe, North and South America, etc.

➤ Under the Covid-19 Pademic, traveling in the world is becoming difficult. YHR has hence developped local installation team: in Mexico, Kenya, Brazil, Malaysia, Phillippines.

OUR CLIENTS



YHR TANKS ADVANTAGES

- Excellent anti-corrosion performance
- Smooth, cohesion less, anti-bacteria
- High-inertia, high acidity / alkalinity tolerance
- Fast installation with better quality: design , production and quality control in factory
- Safe, skill-free: less working aloft, no need for long time worker training.
- Low maintenance cost and easy to repair
- Possible to combine with other technologies
- Possible to relocate, to expand or to reuse
- Beautiful appearance



YHR TANKS ROOF



Double Membrane Roof



Trough Deck Roof



Geodesic Dome Roof



Tapered Steel Roof



STANDARDS & CERTIFICATES

- ISO 9001 Certified Manufacturing
 - AWWA D103-09 Design Standard
 - EN ISO28765-2016 Design Standard
 - NFPA 22-2018 Design Standard
 - SPAN Certified Supplier
 - NSF/ANSI 61 Certified and Listing
 - **QBT 5379-2019 Chinese GFS Tank**
- Standard was leaded and drafted by YHR.**



NSF International

789 N. Dixboro Road, Ann Arbor, MI 48105 USA

RECOGNIZES

Beijing Yingherui Environmental Technology Co., Ltd.
China

AS COMPLYING WITH NSF/ANSI 61 AND ALL APPLICABLE REQUIREMENTS.
PRODUCTS APPEARING IN THE NSF OFFICIAL LISTING ARE
AUTHORIZED TO BEAR THE NSF MARK.



Certification Program
Accredited by the
American National
Standards Institute



Certification Program
Accredited by the
Standards Council
of Canada

This certificate is the property of NSF International and must be returned upon request. This certificate remains valid as long as this client has products in NSF's Official Listings for the referenced standards. For the most current and complete Listing information, please access NSF's website (www.nsf.org).

PRODUCTION PROCEDURE



Enamel Workshop Process

1. Intelligent Laser Cutting
2. Shot Blasting
3. Bending
4. Glass coating line
5. Drying Line
6. Continuous Tunnel Oven
7. Final Inspection(Thickness and holiday test)

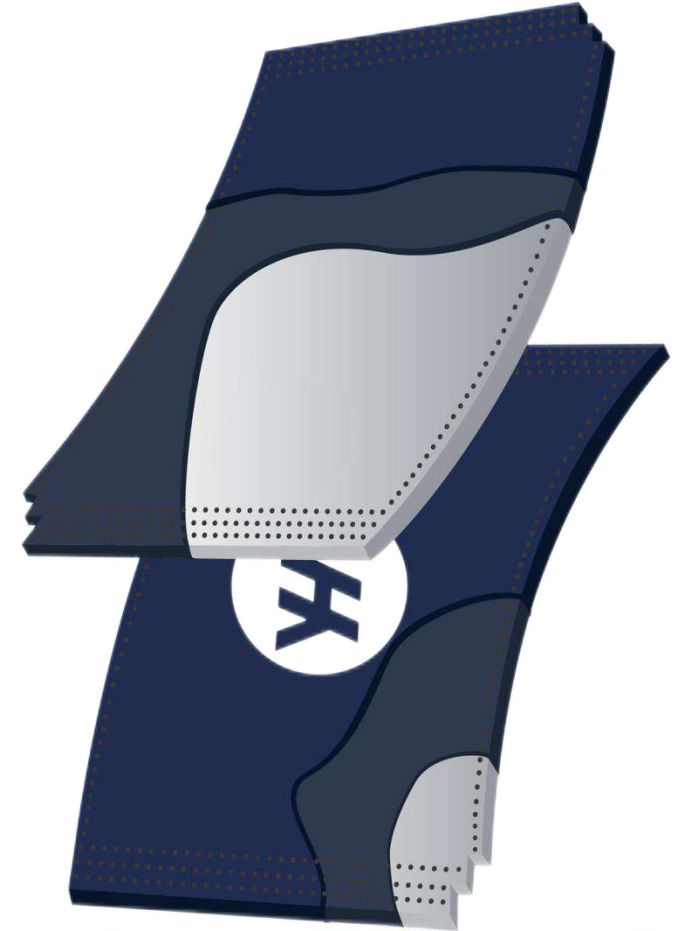
Epoxy Workshop Process

1. Intelligent Laser Cutting
2. Shot Blasting
3. Bending
4. Electrostatic Spraying Epoxy Coating
5. Green Cured
6. Strong Cooling Room
7. Application of Polyester Topcoat
8. Crosslink Thermocuring
9. Strong Cooling Room
10. Final Inspection(Thickness and holiday test)

GLASS FUSED TO STEEL

YHR Glass-Fused-To-Steel Technology, is a leading solution combines the advantages of both materials – **the strength and flexibility of the STEEL and highest corrosion resistance of the GLASS**. The Glass fused to the Steel at **1500 – 1650** deg. F (800 °C) , become a new material: GLASS-FUSED-TO-STEEL with perfect anti-corrosion performance.

[YHR has developed high-strength TRS \(Titanium Rich Steel\) plates, specially produced for the GFS Technology.](#)

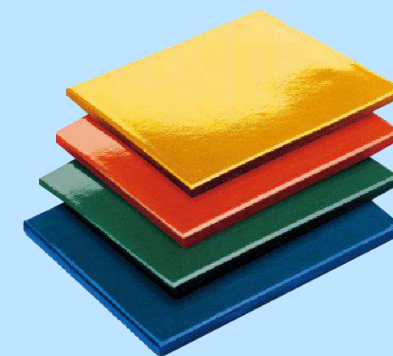


SPECIFICATION & QUALITY CONTROL



YHR GLASS-FUSED-TO-STEEL TANK SPECIFICATION

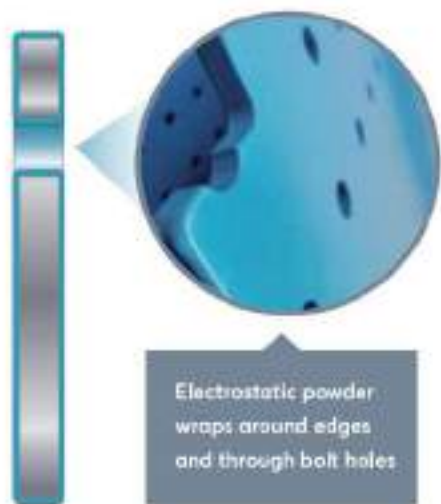
- Standard Colors:
 - RAL 5013 Cobalt Blue
 - RAL 6002 Leaf Green
 - RAL 9016 Traffic White
- Coating Thickness: 250-450micron
- Double Sides Coating: 2-3 coats each side
- Adhesive: 3450N/cm
- Elasticity: 500KN/mm
- Hardness: 6.0 Mohs
- PH Range: Standard Grade 3 ~ 11
- Holiday Test: acc. to tank application, up to 1500V
- Service Life: more than 30 years



YHR EPOXY TANK TECHNOLOGY

Fusion Bonded Epoxy (FBE) is an electrostatic spraying coating system with superior coverage and uniform coating thickness. Epoxy coating is the economical solution that ensures high performance corrosion resistance for storage tanks. All epoxy coated panels are finished in YHR's ISO 9001 certified factory before delivered to the clients.

✓ 100% coverage on edges and holes by electrostatically painting



YHR QUALITY CONTROL SYSTEM

- Holiday Test every panel
- Coating Adhesion Test
- Dry Film Thickness Test on both sides
- Mechanical Properties Test each batch
- Color Compare Test each batch
- Wet Sponge Test if required



YHR Tanks Application

- Potable Water
- Fire Protection Water
- Municipal Wastewater
- Industrial Wastewater
- Biogas Digester
- Slurry Storage
- Sludge Storage
- Liquid Leachate
- Dry Bulk Storage



POTABLE WATER STORAGE

YHR Glass-Fused-To-Steel Tanks are certified by NSF/ANSI 61 and Listing in NSF official website

- ◆ Location: Philippines;
- ◆ Roof Type: GRP Roof;
- ◆ Capacity: Ø26.74*9.6mH;
- ◆ Quantity: 4 tanks;
- ◆ Installation time: 2015.



FOOD PROCESSING WATER TANK

- ◆ Yili Group-Thailand;
- ◆ Capacity: $\Phi 13.75 \times 7.2\text{m(H)} \times 2$, $\Phi 6.11 \times 4.8\text{m(H)} \times 1$, $\Phi 3.82 \times 4.8\text{m}^*$.
- ◆ Quantity: 6 tank;
- ◆ Installation time: 2020.





WASTEWATER TANK

- ◆ Zambia | Kitwe Wastewater treatment Tank Project
- ◆ Client: CUSS Chriwa Umwelt-Systemtechnik und Service GmbH
- ◆ Capacity: 3 tanks $\Phi 9.17 \times 7.2\text{m(H)}$, $\Phi 10.7 \times 7.2\text{m(H)}$, $\Phi 3.82 \times 4.8\text{m(H)}$
- ◆ Installation time: 2020-2021.





Drinking Water Tank

Botswana | Drinking Water Storage Tank Project

◆Client: CUSS Chriwa Umwelt-Systemtechnik und
Service GmbH

◆Capacity: 8 tanks $\Phi 9.17 \times 7.2\text{m(H)}$, $\Phi 11.46 \times 7.2\text{m(H)}$,
 $\Phi 5.35 \times 4.8\text{m(H)}$, $\Phi 6.11 \times 4.8\text{m(H)}$, $\Phi 3.85 \times 4.8\text{m(H)}$.

◆Installation time: 2021.





Sewage Treatment Tank

- ◆ Ghana | Sewage Treatment Project
- ◆ Capacity: $\Phi 8.4 \times 7.2\text{m(H)}$
- ◆ Client: Voltic mineral drinking water factory in Accra, Coca Cola group
- ◆ Installation time: 2017.





北京盈和瑞环境科技有限公司
BEIJING YINGHERUI ENVIRONMENTAL TECHNOLOGY CO.,LTD

GFS Bolted Process Water Tank

- ◆Zambia Kitwe | Process Water Tank Project
- ◆For Coca Cola Beverage Zambia, soft drinking factory
- ◆Client: CUSS Chriwa Umwelt-Systemtechnik und Service GmbH
- ◆Capacity:4 tanks $\Phi 6.88 \times 9\text{m(H)}$
- ◆Installation time: 2021.



WASTE WATER TREATMENT



- ◆ Location: Solomon Islands;
- ◆ Roof Type: Open Top;
- ◆ Capacity: Ø13.75*6.0mH etc;
- ◆ Quantity: 2 tanks;
- ◆ Installation time: 2019.

BEVERAGE PROCESSING WATER TANK



Location: Thailand

◆Capacity: Ø17.57*7.2mH etc.

◆Client: Red Bull Distillery

◆ Quantity: 1 tank;

◆ Installation time: 2021.



Municipal Sewage Treatment Tank



◆ China | Olympic Park Sewage Treatment

Project for 2008 Beijing Olympic Village

◆ Capacity: 4 tanks * Φ 10.7 m*3.6 m (H);

◆ Client: Government

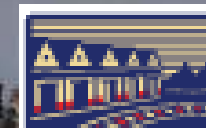
◆ Installation time: 2006.





Stainless Steel Bolted Tank

- ◆ Indonesia | Clove Stainless Steel silo project
- ◆ Capacity: 15 tanks * $\Phi 11.46 \times 8.95\text{m(H)}$;
- ◆ Client: Gudang Garam
- ◆ Installation time: 2020.



YHR has proven himself in different conditions for global customers.



▲ Russia



◀ Indonesia

▲ Kuwait



▲ Philippines

THANK YOU

Exceed client's expectation



ตัวแทนจำหน่ายที่ได้รับการแต่งตั้งในประเทศไทย