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# 2022 | Environmental, Social and Governance (ESG) Report

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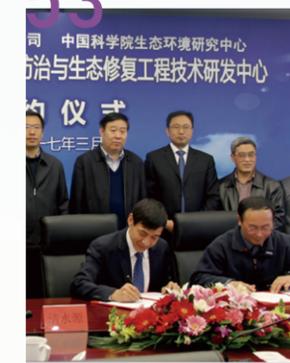
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## About the Report

### Report Description

Henan Qingshuiyuan Technology Co., Ltd.'s 2022 Environmental, Social and Governance (ESG) Report is the first ESG report released by Qing Shui Yuan since its IPO in 2015. In the spirit of being objective, standardized, transparent and comprehensive, the Report details Qing Shui Yuan's practice and performance in ESG in 2022.

### Time Span

The reporting period is from January 1st, 2022 to December 31st, 2022. Previous years' data may be presented in this Report adequately in order to enhance the comparability and completeness of the Report.

### Issue Cycle

The Report is an annual report.

### Report Scope

The Report covers Henan Qingshuiyuan Technology Co., Ltd. as well as its branches, subsidiaries, and subordinate agencies. The scope of the Report is the same as that of the annual report, unless otherwise stated.

### Basis of Preparation

The Report is prepared under the following standards:

- United Nations Sustainable Development Goals (SDGs)
- Global Reporting Initiative the Sustainable Reporting Guidelines (GRI Standards)
- Chinese Academy of Social Sciences Guidelines on Corporate Social Responsibility Reporting for Chinese Enterprises (CASS-ESG5.0)
- Social Responsibility and National Standards Social Responsibility Reporting Guidelines (GB/T36001-2015)
- Shenzhen Stock Exchange Guidelines 2 for Self-regulation of Companies Listed on Shenzhen Stock Exchange: Standardized Operation of Companies Listed on GEM
- Shenzhen Stock Exchange Guidelines 1 for Self-regulation of Companies Listed on Shenzhen Stock Exchange: Business Processing Chapter I "Information Disclosure": Section 2 "Periodic Reporting on Related Issues"

### Data source and Reliability Assurance

The data used in the Report come from the information released by government departments concerned, relevant internal statistical reports of Qing Shui Yuan, third-party questionnaires, administrative documents and reports, third-party comments, etc. Qing Shui Yuan hereby promises that the content of the Report is true, accurate, complete and free of any false record, misleading statement or major omission.

### Appellation Explanation

For the convenience of expression and reading, Henan Qingshuiyuan Technology Co., Ltd. is called "Qing Shui Yuan", "the Company", "the Group" or "We" for short in the Report. In addition, the words "Country" and "Government" mentioned in the Report refer to the People's Republic of China and its administrative agencies.

### Phrase Explanation

Phrases	refers to	Explanation
Tongsheng Environmental	refers to	Henan Tongsheng Environmental Engineering Co., Ltd., a wholly-owned subsidiary of Qing Shui Yuan
Ande Technological , Shaanxi Ande	refers to	Shaanxi Ande Technological Industry Co.,Ltda wholly-owned subsidiary of Qing Shui Yuan
Qingyuan Water Treatment	refers to	Jiyuan Qingyuan Water Treatment Co., Ltd., a wholly-owned subsidiary of Qing Shui Yuan
H2Q INC	refers to	H2Q INC Ltd., a wholly-owned subsidiary of Qing Shui Yuan
Siweida	refers to	Jiyuan Siweida Environmental Technology Co., Ltd., a holding subsidiary of Qing Shui Yuan
Shuiyunzong	refers to	Henan Shuiyunzong Intelligent Control Technology Co., Ltd.
Qingshuiyuan Shanghai	refers to	Qingshuiyuan (Shanghai) Environmental Technology Co., Ltd.

### Report Language

This report includes both Chinese and English versions, in case of any discrepancies between Chinese and English, the Chinese version shall prevail.

### How to get the Report

Please flip through or download the electronic edition of the Report from Henan Qingshuiyuan Technology Co., Ltd.'s official website (<http://www.qywt.com.cn>) for more information.

If you have any questions or advice on the Report, please feel free to email us at [dongshihui@qywt.com.cn](mailto:dongshihui@qywt.com.cn) or call us at 0391-6089342.

## President Remarks



Wang Zhiqing, the Actual Controller, Chairman and President of Henan Qingshuiyuan Technology Co., Ltd.

### Dare to forge ahead at the forefront of the times

With the change of seasons, we're ushering in an extraordinary historical period.

The year of 2022 was a truly eventful year in the history of our business development. Consistently exerting tremendous effort, we were able to withstand the test of complex economic and social environments and make substantial progress. In 2022, we pushed ahead with production and operation, technological innovation, and project construction in a planned manner. The construction of the Qingshui Fine Chemical Industrial Park, the relocation of our water treatment line, and the construction of the phosphorus pentachloride project were completed in a timely manner, and we received AEO certification. Shuiyunzong was successfully identified as a high-tech enterprise and a provincially specialized and sophisticated enterprise specializing in producing new and unique products. An e-procurement platform was successfully launched. The Henan Provincial Postdoctoral Innovation Practice Base (Qing Shui Yuan) was officially inaugurated. A new breakthrough was made in product R&D. Full-time courses began to be offered in the Qing Shui Yuan Chemical Engineering Class. Progressive in our social responsibility, we established the Jiyuan Charity Federation—Qing Shui Yuan Fund, provided financial assistance to freshmen, donated CNY 2 million for rural educational resource allocation, and contributed disinfectants for the prevention of epidemics. Qing Shui Yuan won the title of "Henan Province's Top Ten Technological Innovation-Oriented Environmental Protection Enterprises", and carried out a series of rewarding activities in a deep-going way to "carry forward excellence, set a good example, and gather strength". In 2022, we felt the concern and support that people from all walks of life had for Qing Shui Yuan in a complex internal and external economic environment. This bolstered our confidence and determination to develop core technology, expand the environmental protection industry, and assume greater social responsibilities.

2023 is the first year in which the spirit of the 20th National Congress of the Communist Party of China will be thoroughly implemented, and it is also a crucial year for confronting new challenges and opportunities. Qing Shui Yuan will continue to adhere to our fundamental philosophy of "being a century-old enterprise that benefits society and serves the world", and our "water-centered development strategy" will remain unwavering. We will continue to promote the enterprise's growth through science and technology, strong talent management, and legal compliance, while upholding the Company's "diligence, perseverance, learning, and innovation" ethos. Keeping a close eye on the national industrial policy and the development trend of upstream and downstream industry, Qing Shui Yuan will focus on meeting customer demand through a variety of activities, including "Year of Quality and Efficiency", "Industry-University-Research-Application Cooperation", "Job Rotation", "Talent Echelon Construction", "Mentoring", "Cost Reduction and Efficiency Improvement", etc.

Qing Shui Yuan has always held the view that technological innovation fuels high-quality business development, and that core technology is the sole determinant of long-term growth. Qing Shui Yuan must view R&D and innovation as its lifeline, embrace R&D and innovation as the endogenous driving forces for business development, and keep a close eye on the frontiers of science and technology in order to establish multiple business lines. Qing Shui Yuan will also continue to recruit outstanding R&D personnel, increase R&D investment and efficiency, strive to create a collaborative innovation platform, and master more core technologies in order to strengthen the Company's core competitiveness. In the field of water treatment chemicals, the Company will actively explore and expand the category and application scope of water treatment chemicals, focus on developing new types of green, environment-friendly water treatment water treatment chemicals, continuously optimize the product structure, improve the product performance, raise the technical content of products, dig deep into high-profit chemical products in high demand, and find new profit growth points; in the field of engineering, the Company will take advantage of its qualifications, technology and human resources concerning municipal works, industrial wastewater treatment and environmental protection to undertake high-quality projects, prevent operational risks, improve the efficiency of capital utilization, spread corporate values by implementing high-quality projects, and resume corporate social responsibility (CSR) through high-quality projects; in the field of industrial Internet, we will continue to increase Shuiyunzong Company's investment in the R&D of a water quality monitoring sensor, water quality measuring and controlling device, water quality analyzer and online dosing system, so as to constantly enhance product quality and performance. In order to provide our consumers with intelligent goods and services, we will also intensify our efforts to exploit the market and enhance the dynamic monitoring and intelligent management of the industrial water treatment system on the Shuiyunzong Industrial Internet Platform.

Qing Shui Yuan is an enterprise with a strong sense of social responsibility. Adhering to the principle of people orientation, we care for the physical and mental health and career development of our staff, respect every hard worker, continuously cultivate a corporate culture of helping and supporting one another, and protect the rights and interests of every staff member while pursuing innovative development. The Company will commit to reforming and optimizing our digital process in order to achieve a win-win situation in terms of performance and benefits. We endeavor to implement ecological and sustainable operations. While innovating to reduce energy consumption per unit, we provide our customers with high-quality products and intelligent total solutions and contribute more to their intelligent operation, quality improvement, efficiency increase, energy conservation, and pollution reduction goals.

We'd better not slow down while chasing the wind and the moon, because there is spring scenery at the end of the open grassland. In 2023, Qing Shui Yuan will continue to uphold the core idea of "being a century-old enterprise that benefits the society and serves the world" to create greater value for the customers, staff members, shareholders, and society. On the road to high-quality development, we are ready to work hard with our partners from the global upstream and downstream industries to actively promote energy conservation and emission reduction to achieve sustainable development goals in a low-carbon manner!



# About Qing Shui Yuan

Qing Shui Yuan is one of the leading Chinese enterprises that specializes in developing and producing water treatment chemicals and providing related services. The Company will continue to promote our own development concept and strategic objectives to the industry and its consumers in order to increase their identification with us and thereby increase our influence within the industry and market.

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## Company Profile

Henan Qingshuiyuan Technology Co., Ltd. (hereinafter referred to as “Qing Shui Yuan” ), founded in 1995, headquartered in Jiyuan High-Tech Industrial Development Zone, Henan Province. On April 23rd, 2015, Qing Shui Yuan was listed on the Shenzhen Stock Exchange GEM (stock code: 300437). As a standing council member of the Specialized Committee on Industrial Water Treatment of the Chemical Industry and Engineering Society of China, and a member of the Society for Water Treatment Chemicals, National Standardization Technical Committee of Chemical, Qing Shui Yuan has contributed to the formulation and revision of 25 national standards and 45 industry standards. The Company holds over more than 100 patents and exports its products to over 50 countries and regions worldwide.

- Core Idea**  
 Being a century-old enterprise that benefits the society and serves the world
- Corporate Vision**  
 To be a first-class environmental protection enterprise in China and the globe.
- Corporate Spirit**  
 Diligence, Perseverance, Learning, Innovation.
- Governance Philosophy**  
 My efforts contribute to the growth of the Company, the happiness of my family, and the cohesion of society.



## Corporate Events



- In April 2022, Lou Yangsheng, the Secretary of the Henan Provincial Party Committee, inspected the Qing Shui Yuan R&D Center.
- In May 2022, Qing Shui Yuan donated disinfectants to the front line for epidemic prevention and control.
- The 2022 Central Plains Private Entrepreneur Training Program and Famous Enterprise Visits made their ninth stop in Qing Shui Yuan in July 2022. It was hosted by GEJUPINGTIANXIA Henan Headquarters and put on by Jiyuan Entrepreneurs' College with help from the Henan Federation of Industry and Commerce.
- In July 2022, Qing Shui Yuan held a learning activity to mark the first anniversary of “Qing Shui Yuan - Tai Chi - Health” Tai Chi Fitness Program.
- In August 2022, the Qing Shui Yuan - Zhengzhou University Ecological Environment Research Institute held an academic symposium in the R&D Building of Qing Shui Yuan.
- In September 2022, Qing Shui Yuan held a ceremony for launching the “Jiyuan Charity Federation - Qing Shui Yuan Fund” and granting subsidies to freshmen.
- In November 2022, Qing Shui Yuan donated approximately 15 tons of disinfectants for the control of epidemics.

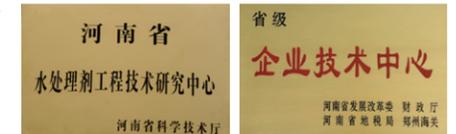
**1995** Qing Shui Yuan Group's predecessor, Jiyuan Qingyuan Water Treatment Co., Ltd., was established.



**2008** Henan Qingshuiyuan Technology Co., Ltd. was established through the share reform.



**2010** Qing Shui Yuan was identified as both a provincial water treatment chemical engineering technology center and a provincial enterprise technology center.



**2015** Qing Shui Yuan was listed on the Shenzhen Stock Exchange GEM.



**2018** Qing Shui Yuan initiated a period of collectivization development; a water treatment chemical extension project with an annual output of 180,000 tons was launched.



**2019** The scientific and technological achievements of the intelligent water treatment service system passed the expert review.



**2020** A signing and inauguration ceremony was held for the Qing Shui Yuan - Zhengzhou University Ecological Environment Research Institute and Henan International Joint Laboratory of Intelligent Water Treatment System; Qing Shui Yuan hosted the China Conference on Industrial Water and 40th Annual Meeting. Qing Shui Yuan and some staff members won the “Technological Innovation Award”, “Development Leader Award”, “Distinguished Member Award”, “Young Elite Award”, and “Outstanding Contribution Award”. The “Technological Innovation Award,” “Development Leader Award,” “Distinguished Member Award,” “Young Elite Award,” and “Outstanding Contribution Award” were won by Qing Shui Yuan and our staff members.



**2021** Qing Shui Yuan hosted a seminar on “Carbon Peaking and Carbon Neutrality” Goals and Intelligent Water Treatment Technology. The seminar was attended by more than 300 experts, scholars, and entrepreneurs from over 150 organizations, including universities, research institutes, and enterprises based in 26 provinces. Moreover, an inauguration ceremony was held for the Henan Provincial Postdoctoral Innovation Practice Base (Qing Shui Yuan).



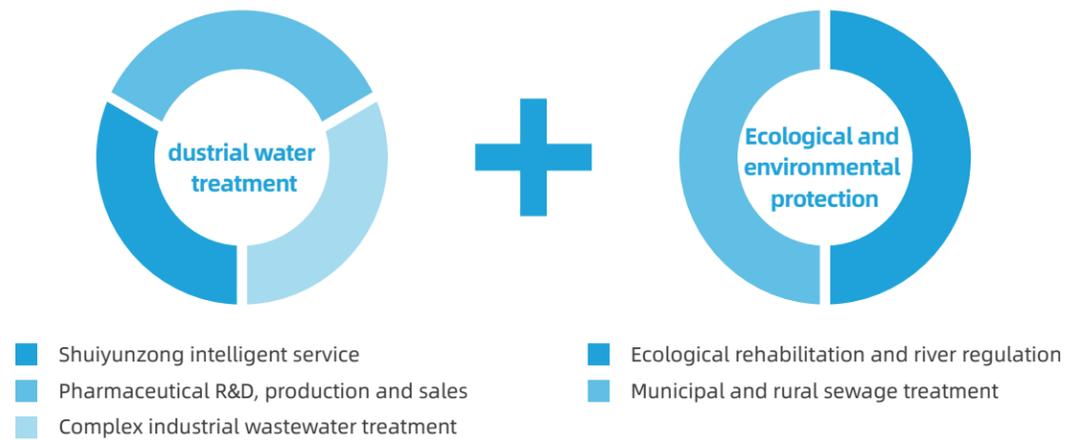
**2022** Lou Yangsheng, the Secretary of the Henan Provincial Party Committee, inspected the Qing Shui Yuan R&D Center. He pointed out that Qing Shui Yuan should concentrate on key areas such as high-end instrument manufacturing, optimize resource allocation, amass the strength to make new technological breakthroughs, and strive to get ahead of the curve on new tracks in order to provide robust support for high-level technological innovation.



## Business Layout

The Company is mainly engaged in the production and sales of water treatment chemicals, the treatment of municipal and industrial water, the comprehensive treatment of water environments, etc., and specializes in promoting the innovative development of the water-centered industry chain. We strive to drive the coordinated development of various business lines such as water treatment chemical development and production, intelligent services for industrial water treatment, complex industrial wastewater treatment and resource utilization, municipal and rural wastewater treatment, etc.

The Company has nine subsidiaries, which are as follows: Jiyuan Qingyuan Water Treatment Co., Ltd., Qingshuiyuan (Shanghai) Environmental Technology Co., Ltd., Henan Tongsheng Environmental Engineering Co., LTD Shaanxi Ande Technological Industry Co.,Ltd Hainan Free Trade Zone Qingshuiyuan Environmental Technology Co., Ltd., Qingshuiyuan (Beijing) Investment Co., Ltd., H2Q INC, Jiyuan Siweida Environmental Technology Co., Ltd., and Henan Shuiyunzong Intelligent Control Technology Co., Ltd. Additionally, the Company has formed R&D partnerships with the Chinese Academy of Sciences (CAS), Tsinghua University, Tongji University, Zhengzhou University, etc. Through brainstorming, achievement transformation, complementary advantages, and resource sharing, the Company has assembled a team of renowned Chinese experts, including famous academics, and established the "Henan Provincial Water Treatment Chemical Engineering Technology Research Center", "Qing Shui Yuan - CAS Ecological Environment Research Center for Soil Pollution Control and Ecological Rehabilitation", "Henan International Joint Laboratory of Intelligent Water Treatment System", "Qing Shui Yuan - Zhengzhou University Ecological Environment Research Institute", and "Henan Provincial Postdoctoral Innovation Practice Base (Qing Shui Yuan)".



Jiyuan Qingyuan Water Treatment Co., Ltd.  
Water Treatment Chemical Production Base



Henan Tongsheng Environmental Engineering Co., LTD  
Environmental Protection Project Operation Center



Shaanxi Ande Technological Industry Co.,Ltd  
Industrial Water Treatment Terminal Service Center



Qingshuiyuan (Beijing) Investment Co., Ltd.  
Investment and Financing Management Center



Qingshuiyuan (Shanghai) Environmental Technology Co., Ltd.  
Talent and Technology Center



Jiyuan Siweida Environmental Technology Co., Ltd.  
Sanitation facilities and technology development, municipal solid waste treatment



H2Q INC(USA)  
Introduction of overseas marketing technology



Hainan Free Trade Zone Qingshuiyuan Environmental Technology Co., Ltd.  
Import and export trade

## Products & Services

The Company is one of the leading Chinese manufacturers of water treatment chemicals, with a large production capacity and a variety of products, such as organic phosphines and polymers. Organic phosphines are broadly classified as HEDP, ATMP, DTPMP, PBTC, etc.; polymers are primarily classified as HPMA, Polyacrylic acid, Polyacrylic acid copolymer, etc.; water treatment chemicals can be classified according to their application as flocculants, corrosion inhibitors, antiscalant dispersant, bactericidal algicides, coagulants, disinfectants, pH regulators, etc. Water treatment chemicals are primarily employed to remove suspended solids and toxic substances from water, inhibit the formation of water scale and sludge, reduce corrosion on water-contact materials, enhance the effects of deodorization, sterilization, decoloration, softening, etc., and to maintain water quality. The majority of the Company's water treatment chemicals are used for industrial water treatment, including the purification of water used in industrial production, such as process water, cooling water, industrial raw water, and polluted industrial wastewater, in a variety of industrial sectors including chemical engineering, steel, power, sewage treatment, and tap water supply.

Our water treatment products have been granted U.S. NSF certification and EU REACH registration.

### Water treatment chemicals and features

**Organic phosphonic acid/Organic phosphonates**  
Used for scale control in cooling water systems, oil pipelines, and boilers; used as a antiscalant in oil pipelines filled with high-hardness and hypersaline liquid.

**Bactericidal algicide/slime stripper**  
Used extensively for industrial circulating cooling water treatment, pollution-free pesticides, swimming pool water treatment, drinking water treatment, industrial bleaching, and household and public disinfection.

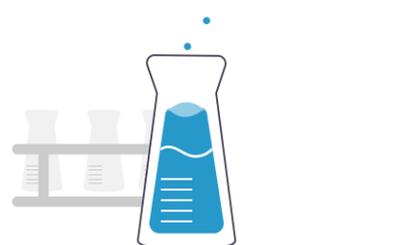
**Phosphorous acid**  
Phosphorous acid is used as a reducing agent and pesticide intermediate for the production of brightener for nylon, plastic stabilizer, synthetic fiber, dibasic lead phosphite, glyphosate, etc.

**Organic high polymer**  
Used primarily as an antiscalant dispersant in open circulating cooling water systems in industrial sectors such as petrochemistry, power, fertilizer, steel, etc., as well as in boilers.

**Compound scale and corrosion inhibitor**  
Applicable to the chemical treatment of circulating cooling water in the reclaimed water recycling system, and significantly effective at preventing corrosion, scaling and adhesion on the surface of heat-exchange equipment under highly concentrated and high pH value conditions.

**BTA**  
Used to enhance the corrosion inhibition effect of water stabilizer formulations; BTA can be combined with multiple antiscalant dispersant to achieve a good corrosion inhibition effect, particularly in a closed circulating cooling water system.

**Compound cleaning additive**  
Has interfacial effects on corrosion products and dirt, including a penetrating effect, an extrusion effect, and a stripping effect, so that dirt and corrosion products are progressively removed from the metal surface, with the solid particles suspended in water.



 <b>HEDP</b> ((hydroxyethylidene-1,1-diphosphonic acid)	 <b>ATMP</b> (amino trimethylene phosphonic acid)	 <b>DTPMP</b> (diethylenetriamine pentamethylene phosphonic acid)
 <b>AA/AMPS</b> (2-acrylamido-2-methylpropanesulfonic acid-acrylic acid copolymer)	 <b>HPMA</b> (hydrolyzed polymaleic anhydride)	 <b>BHMTMPA</b> (Bis (hexamethylene triamine penta (methylene phosphonic acid))
 <b>H<sub>3</sub>PO<sub>3</sub></b> (phosphorous acid)	 <b>HPAA</b> (2-hydroxyphosphonoacetic acid)	 <b>PBTC</b> (2-phosphonobutane-1,2,4-tricarboxylic acid)

The Company provides water treatment services including system design, device integration, construction, installation and commissioning, operation and maintenance for industrial water treatment and reclaimed water recycling; municipal sewage engineering design, investment, construction and operation; wastewater treatment plant upgrading; sales of environmental equipment and water treatment chemicals, etc.



A domestic sewage wastewater treatment project of 300 tons/day in Luolong District, Luoyang City



QSY integrated device Alar project, Xinjiang

## Honors and Awards

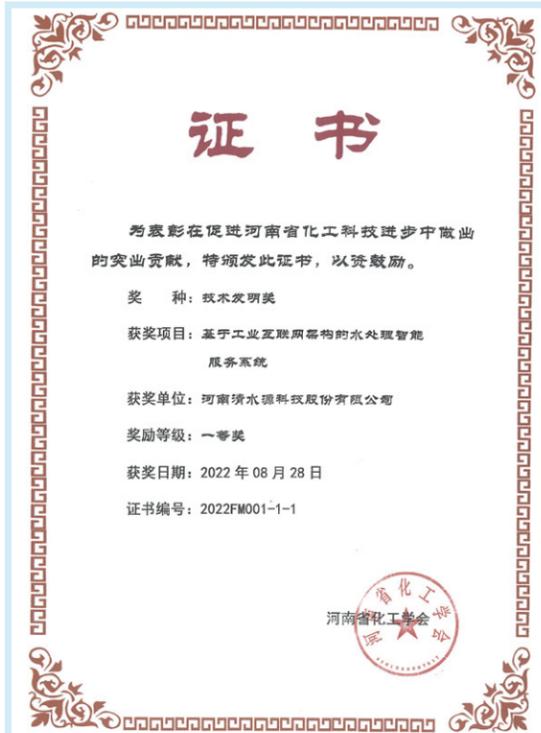
### Collective Honor



Excellent Party Branch of 2021  
Issuing Authority: Zhicheng Town Party Committee of the Communist Party of China



Advanced Enterprise of Contribution to Economic Development of 2021  
Issuing Authority: Zhicheng Town Party Committee of the Communist Party of China and Zhicheng Town People's Government



Vice President of Henan Environment Federation  
Issuing Authority: Henan Environment Federation



Jiyuan Charity Federation - Qing Shui Yuan Fund Certificate  
Issuing Authority: Jiyuan Charity Federation

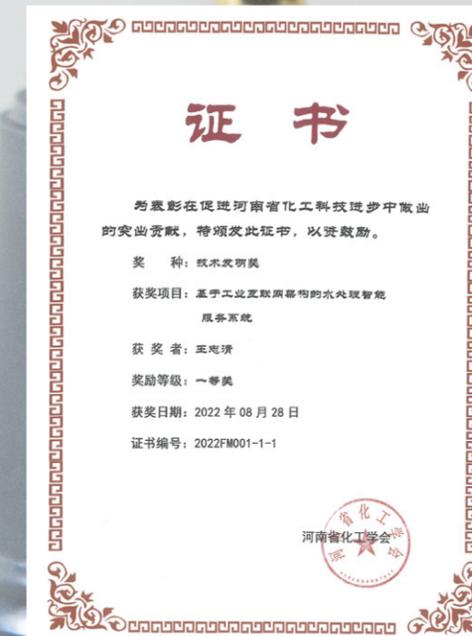


Ambassadors of Love Enthusiastic in Public Matter  
Issuing Authority: Jiyuan City-Industry Integration Demonstration Zone Women Entrepreneurs Association

### Chairman's Personal Honor



An Expert at the Specialized Committee on Industrial Water Treatment, Chemical Industry and Engineering Society of China  
Issuing Authority: Specialized Committee on Industrial Water Treatment, Chemical Industry and Engineering Society of China



First Prize for Technical Invention  
Issuing Authority: Henan Chemical Society

Topic 1

# Digital Development—Intelligent Shuiyunzong

By seizing the opportunity presented by the current scientific and technological revolution, Qing Shui Yuan has developed the Shuiyunzong Industrial Internet Platform—an intelligent water treatment service system based on the Company’s over twenty years of experience in serving the water treatment industry—in order to solve various problems arising from the production and service process such as extensive management, unscientific chemical application, delayed data feedback, etc. The Company has also thoroughly integrated AI technology and Internet technology for industrial water treatment, achieving intelligent transformation and upgrading of industrial water treatment.

## System Architecture

A service pattern featuring “background system + field hardware equipment + operation and maintenance team in charge” is applied to the Shuiyunzong Industrial Internet Platform to innovate the traditional water treatment service model, so as to “replace personnel with robots” and build an “intelligent hospital”. The platform is utilized extensively in the cooling circulating water systems of various manufacturing industries. It has wide-ranging uses and a high promotional value in other fields, including data centers and central air conditioning.



Qing Shui Yuan has independently developed the Shuiyunzong Industrial Internet Platform, a comprehensive system architecture involving approximately four years of continuous development.



## Key Applied Technologies

Technology Name	Scope of Application	Technical Content	Self-developed Products	Highlights
An online water quality monitoring sensor	Terminal equipment	Automatic detection of water quality indicators, with the development process involving different technical fields and subjects such as sensitive materials technology, semiconductor technology, chemistry, optics, etc.	There are 15 types of online water quality monitoring sensors available. Based on these sensors, we have developed more than 10 types of intelligent water treatment equipment/integrated systems, including the three-parameter water quality analyzer and intelligent dynamic simulation experimental device	Our core manufacturing technology involves online monitoring sensors for industrial water circulation systems. There are currently 15 types of water quality monitoring sensors being used in various industrial water circulation systems, including the ST-580, ST-500, and SP-910 which have reached industry-leading levels.
An algorithm platform	Backend service	The platform integrates 124 conventional algorithms and utilizes big data to achieve data cleansing, calculation, water quality trend prediction, and equipment health status prediction.	The platform offers a range of functions, including enterprise management systems, equipment management systems, intelligent reporting systems, operation centers, data dashboards, mechanism modeling platforms, algorithm platforms, digital twins, and more.	Our platform offers a high degree of automation, precise integration of algorithm training, and effective conversion of abstract data into concrete information, thereby reducing the complexity of data usage and helping users efficiently utilize data.
An open community	Backend service	Visual platform service development and deployment tools are available on the platform.	155 industrial microservices are developed; microservices undergo container orchestration based on technologies such as K8S and Docker, with 50 mechanism models established.	"Facilitate third-party companies to conduct in-depth custom development.

## Project Promotion on Shuiyunzong Platform

The online linear three-parameter water quality analyzer in China has achieved automatic monitoring of three water quality indicators of chloride ions, hardness and alkalinity in circulating cooling water systems. The device uses online titration technology and automatic cleaning technology to achieve high reproducibility, flexible testing cycles and long-term stable operation. In 2022, the device was technically improved to reduce data fluctuations and testing deviations, laying a solid foundation for the large-scale promotion and commercial application of the device. Currently, the device has been applied in dozens of fields such as power, chemical and metallurgy, and is operating well.



The online three-parameter water quality analyzer

## Relevant Academic Achievements

In 2019, the Henan Chemical Industry Association conducted a scientific and technological achievement evaluation of the platform and concluded that the platform has made significant innovations in the research and development of sensors for water treatment agents, and has reached the international advanced level in the construction and application of the water treatment industry Internet platform.

### The platform has been successively identified as:

A pilot project for the "entrepreneurship and innovation" platform for manufacturing by the Ministry of Industry and Information Technology in 2019



A pilot project for manufacturing-Internet integrated development by Henan Province in 2019



An industrial Internet platform by Henan Province in 2022



A big data solution provider by Henan Province in 2022



In relation to the platform, the Company has obtained 10 utility model patents, 2 invention patents, and 19 software copyrights.

## Business Development

The Company is constructing a nationwide sales and support network. We have established sales teams in Jiyuan, Zhengzhou, Xi'an, Wuhan, and Shenyang, developing channel partners vigorously and accelerating product application and promotion.

The software on the Shuiyunzong platform is mature, the hardware is dependable, and the service staff is competent. Nearly four years have passed since the first batch of "Shuiyunzong" systems were introduced to the market, enabling customers to effectively experience the value of "platform + service."



Business development on Shuiyunzong Industrial Internet Platform

## Industry-University-Research Cooperation

Integrating industry resources and collaborating closely with domestic and international universities and research institutions, the Company takes a market-driven approach and actively conducts research on related product development, practical supporting technologies, and equipment improvement. By perpetually providing the Company's production with cutting-edge technology, processes, and equipment, it ensures the Company's industry leadership.

In August of 2020, the Company and Zhengzhou University signed a cooperation agreement for the establishment of the "Qing Shui Yuan-Zhengzhou University Institute of Ecological Environment." The institute seeks to integrate the research theories, academic resources, and faculty strengths of Zhengzhou University with Qing Shui Yuan's years of practical experience in the environmental protection field in order to jointly address industry-specific key technical issues such as water treatment agent research and development and the intelligent development of the water treatment industry. In 2021, the "Qing Shui Yuan-Zhengzhou University Institute of Ecological Environment" will collaborate with the School of Electrical Engineering at Zhengzhou University to advance technological advancements in industrial water system water quality monitoring sensor technology.

In 2022, Qing Shui Yuan reached cooperation with the Jiyuan Vocational and Technical College to implement a project entitled "Nano Yunzong". The objective of the project is to create a decentralized small-field management system for circulating cooling water in non-large-scale heavy industrial production facilities. It is a simplified solution for the Shuiyunzong device.

Since June 2022, through exchanges, discussions, and joint development between the university and the Company, the main outline of the equipment development theme has been completed. The next step is for the Company to integrate and absorb the outcomes, and the equipment will enter the testing phase.

Topic 2

# Safety Production—Qing Shui Yuan in Peace

The Company revised and improved its safety management system in 2022, including the "Safety Production Responsibility", "Compilation of Safety Management System", and "Assessment Rules for Safety Management". The organization actively practices the concept of green and safe development, enhances the employee safety management system, and implements a dual mechanism for safety production risk control and hidden peril investigation and treatment. It enhances the propagation of safety management, reinforces safety education, and ensures the implementation of safety management tasks in an orderly manner. Throughout the year, there were no safety production responsibility accidents or fire accidents.

 <b>Key Performance Indicators for 2022 for Safety</b>	production safety accident	fire accident	rectified hidden hazards	rectification rate of hidden hazards	annual comprehensive inspections
	0	0	321	100%	8

## Occupational Health Management

While assuring a sustainable and stable development, Qing Shui Yuan actively fulfills its social responsibilities and pays close attention to its employees' health and safety. The Company complies with laws and regulations such as the "People's Republic of China Production Safety Law," the "Management Measures for Production Safety Accident Emergency Plans," the "Occupational Disease Prevention and Control Law of the People's Republic of China," and the "Management Measures for Occupational Health Examinations," and continuously improves its occupational health and safety management system. The Company actively organizes self-inspections and self-examinations of the safety production process, perpetually improves its environmental, health, and safety management level, and protects its employees' occupational health and the safety of its production. Currently, Qing Shui Yuan has achieved ISO 45001 certification for its Occupational Health and Safety Management System.



Occupational Health and Safety Management System Certificate

occurrence of major safety accident	days lost due to occupational injury	work-related fatalities
0	15	0

## Safety Guarantee

Safety production is the foundation of enterprise growth. Qing Shui Yuan adheres to the principle of placing people and life first, firmly establishes the safety bottom line, and implements the "life first" concept throughout the entire production, operation, and management process. The Company is committed to establishing a firm foundation for production safety, closely monitoring key production processes, and ensuring that everything is in perfect order. Qing Shui Yuan is dedicated to upholding the safety bottom line through action. In 2022, the Company organized eight comprehensive inspections in accordance with its annual plan, conducted monthly on-site safety checks, and conducted weekly inspections of main company-level hazards. As of the 30th of December, all 321 identified company-level concealed dangers had been remedied, for a 100% rectification rate.

In recent years, Qing Shui Yuan has increased the frequency of hidden danger inspections, improved emergency management system construction, effectively combined civil defense and technological defense, and endeavored to detect, inspect, and rectify potential risks as early as possible, preventing them from developing into major issues.

### Case 1: On-site Safety Inspection



## Safety Training and Drills

The Company continuously strengthens the management of occupational safety and working environment, and provides specialized training for fire emergency and safety production measures. We strictly follows the "Safety Production Investment and Cost Management System" to extract and use safety costs, provides necessary emergency rescue equipment, devices, and safety protection items for on-site workers to ensure the smooth production of the Company's safety, and safeguard the occupational health of our employees.

### Fire Safety

In December 2021, the Company organized an on-site training activity themed "Fire Safety in Qing Shui Yuan". The training stressed the significance of recognizing and preventing safety hazards, responding to fires in their early phases, reporting fires, and evacuating safely through case studies from the chemical industry and fire safety warning videos. The training also included demonstrations of how to use fire extinguishers and fire hydrants in various fire scenarios, thereby enhancing the fire safety awareness and practical abilities of all employees.

The Company carefully adheres to the primary responsibility for safety, defines the responsibilities of each position with regard to fire safety, organizes safety training on a regular basis to detect and remove hidden hazards and maximizes the impact of publicity, education, and warning.

### Case: Fire Safety Knowledge Training



## ◆ Safety in Production

Safety is the guarantee of development and a perpetual issue for enterprises. Production safety is related to the stability of the enterprise and the safety of every employee's life. In 2022, the Company organized a special safety education training and hung up propaganda slogans with the theme of "Comply with the Production Safety Law and Be a the First Responder" throughout the workplace. Safety slogans and information were disseminated through various channels, including bulletin boards, propaganda columns, and electronic displays, to raise awareness and promote safety.

■ Case 1: The workshop was organized to conduct training on the use of emergency equipment



■ Case 2: Training was conducted on "15 Measures for Safety Production"



■ Case 4: Staff members were arranged to view videos and typical cases of safety accidents, as well as participate in safety knowledge guessing activities, in order to increase their safety and legal awareness.



■ Case 3: "Safety Production" slogans were put up within the Company



## ◆ Safety Drills

The Company gives emergency management a high priority and requires all departments and workshops to coordinate employees in key positions to study thoroughly and conduct drills. By participating in emergency drills, we can enhance the team's emergency response coordination and consistently improve our accident rescue capabilities.

■ Case: On June 24, 2022, the security department of the Company organized a special emergency exercise titled "Chloromethane Tank Leak Emergency Response." The exercise was directed on-site by the assistant general manager of production, and managers and employees from various workshops participated. The drill's planning staff carefully tracked each step and recorded each data point. The entire exercise, including alert, rescue, repair, cleaning, disposal, alert, and evacuation, was completed in approximately 20 minutes.



Topic 3

# Green Business: Supporting the Dual Carbon National Policy

## Environmental Water Engineering

The Company is committed to the "Beautiful China" initiative by pursuing the "Carbon Peaking and Carbon Neutrality" Goals and the "14th Five-Year" Plan. Over the years, the Company has accumulated rich experience in environmental water engineering through its extensive involvement in the water industry. The Company specializes in undertaking large-scale industrial and municipal wastewater treatment plants, industrial water purification and reclaimed water recycling systems, complex industrial wastewater treatment, decentralized, modular, and integrated small and medium-sized wastewater treatment systems, etc.

### Wastewater Treatment Plants

The Company keeps solidifying our technical foundation for wastewater treatment, promoting the standardization of wastewater treatment services, and enhancing the scientific nature and professionalism of wastewater treatment solutions.

#### Yichuan County Second Wastewater Treatment Plant Project



Yichuan County Second Wastewater Treatment Plant, Luoyang City

Capacity of treatment: 30,000 tons/day



Henan Province's first fully-buried underground wastewater treatment plant

Won the National Quality Engineering Award in 2020



Wastewater treatment plant at industry cluster, Municipal wastewater treatment plant, Fully buried municipal wastewater treatment plant, Municipal wastewater treatment plant, Wastewater treatment plant at industry cluster

Jinkai Wastewater Treatment Plant for megaton-scale ammonia production



Capacity of treatment: 20,000 tons/day

Wastewater Treatment Plant at Luohe Songjiang Industrial Cluster



Capacity of treatment: 30,000 tons/day

Key performance indicators in wastewater treatment

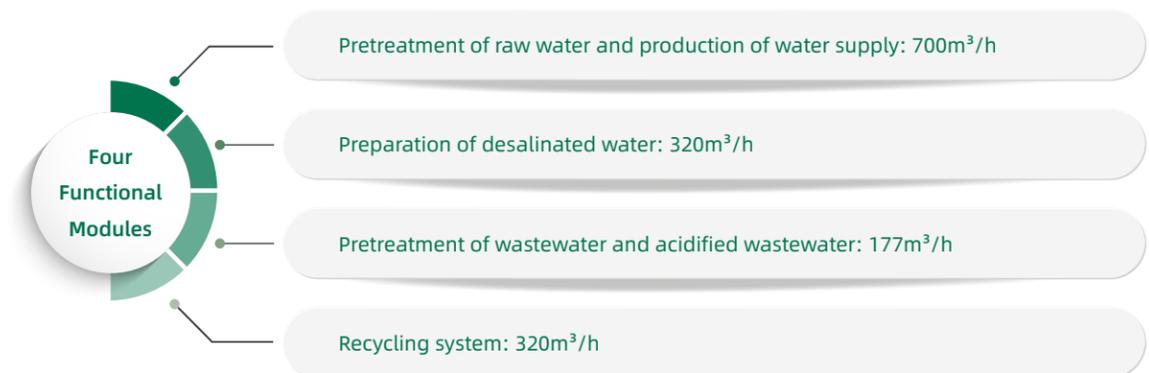
7 wastewater treatment plants in operation

Covering 5 cities in 2 provinces

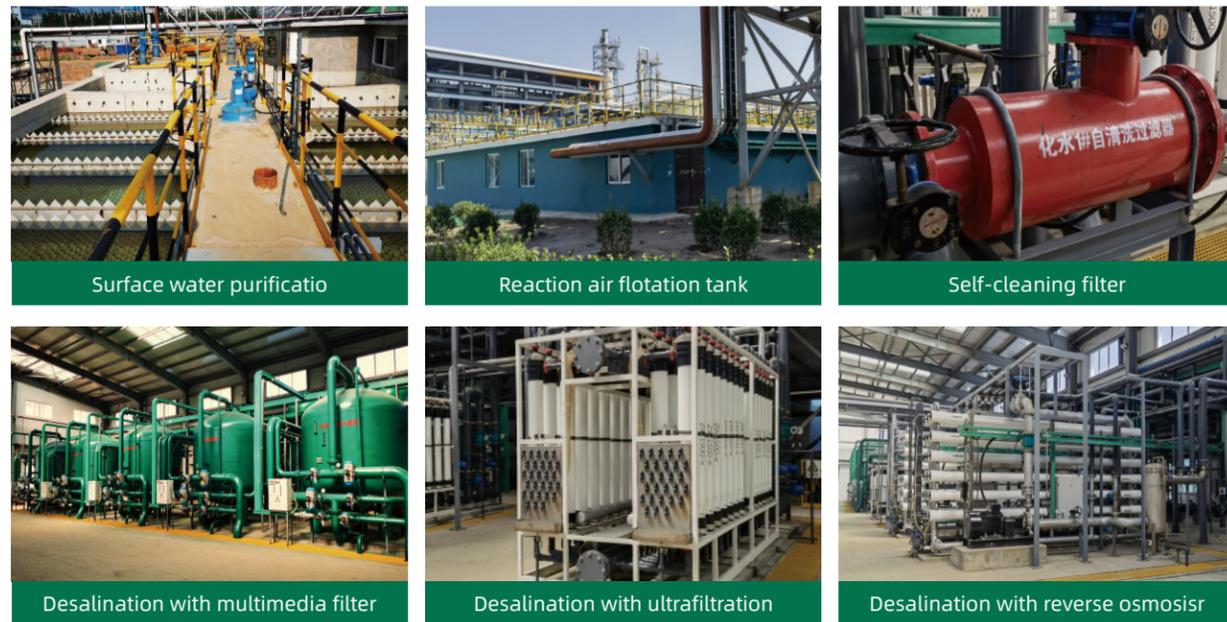
Capacity of wastewater treatment: about 140,000 tons/day

### Industrial Water Treatment

Project Name: Water treatment project for Yuguang lead recycling and utilization technological transformation project



### Pretreatment of raw water and preparation of desalinated water



### Case of Zero-discharge Industrial Wastewater Treatment

Project Name	Coal Chemical Enterprise Sodium Sulfate Wastewater Project
Effluent type	Coal chemical effluent rich in salt, oil and phenol
Effluent discharge amount	50 tons/day
Project target	Economically feasible, environmentally friendly, and harmless disposal

### Our Technological Advantages

- Nf or partial softening technology is applied to pretreatment to remove COD and multivalent salt
- High TDS and high concentration ratio, high-pressure operation, direct multistage pressurization with short membrane shell
- Low chemical consumption and low operating cost
- Low investment in the system
- Salt separation and evaporation is beneficial for the disposal and utilization of crystalline solids.

### Final Results

The Company adopts the membrane ultra-concentration + evaporation crystallization technology, combined with partial softening pretreatment technology, to produce only low moisture salt solid and package it for external delivery, achieving true 'zero discharge' of wastewater.



### Ecological Environmental Protection Service

Qing Shui Yuan adheres to the development philosophy of protecting the ecological water environment, leveraging its enterprise advantages to implement a variety of ecological environmental protection projects, such as river and black and odorous water body treatment, water source protection, and comprehensive watershed water environment management.

### Cases of water environment treatment

#### Heihe River Treatment EPC Project in Luohe City

To restore the gorgeous scene of clear water and green trees in Heihe River, this project employs comprehensive measures such as river dredging, substrate activation, submerged plant community construction, large benthic animal community construction, and system optimization and adjustment. It effectively improves the water quality and aquatic ecology of the Heihe River basin, as well as the living environment of the people residing near the water, and has numerous social and environmental benefits.



Before treatment

After treatment

#### Comprehensive Environment Treatment Project at Wujiang River Source in Baofeng County

This project is a comprehensive municipal governance project contracted via the EPC approach, which includes river management projects, rural environmental development projects, and reclaimed water treatment projects with a high level of filtration. After extensive enhancements, the character of the river's surrounding area is enhanced, the living environment and natural ecology are enhanced, and the green landscape is revitalized. The project won the Qing Shui Yuan Best Project Award of 2020..





# Governance for Sustainable Development

Adhering to the guiding principle of "being a century-old enterprise that benefits the society and serves the world," Qing Shui Yuan has established a solid social responsibility management system to promote its sustainable development on an ongoing basis.

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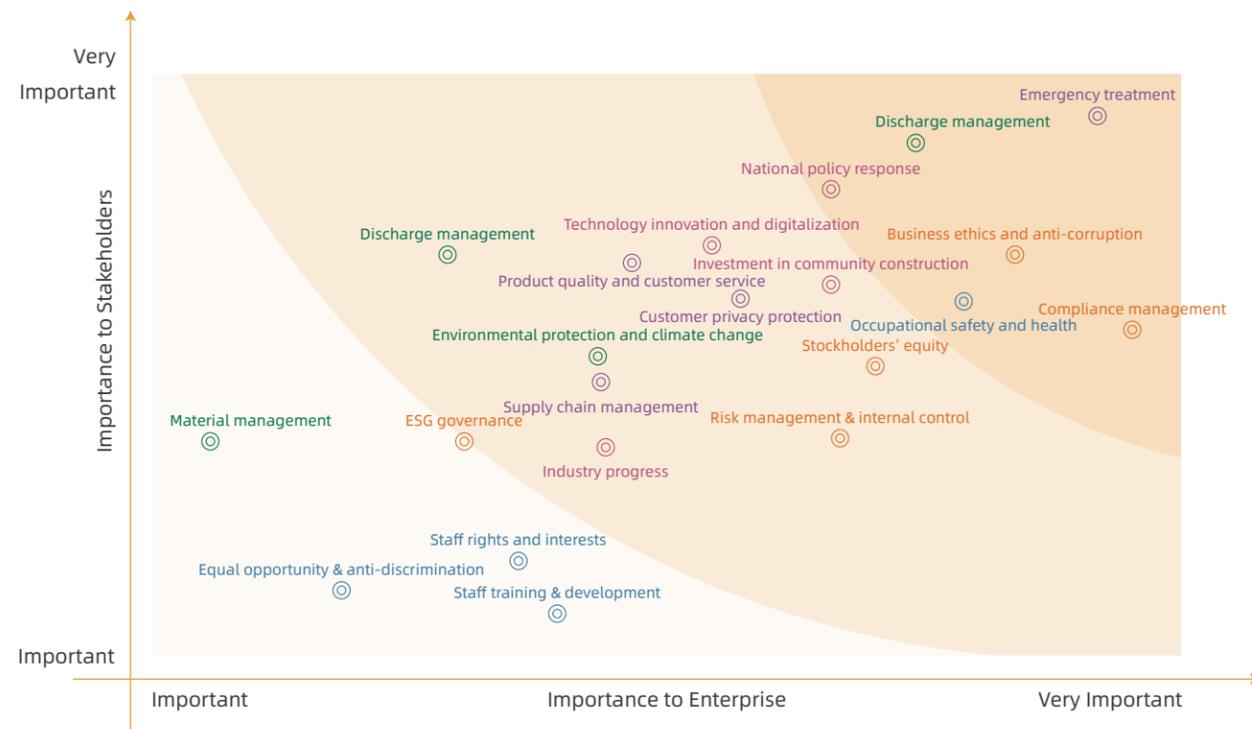
## The Concept of Sustainable Development

The Company adheres to the fundamental values of "becoming a century-old enterprise that benefits society and serves global health" and the philosophy of sustainable development, with the goal of being a first-class environmental protection enterprise in China and the globe. The business has established a system of sustainable development and a system of social responsibility through "diligence, perseverance, learning, and innovation." The Company actively undertakes social responsibility for environmental protection and uses environmentally friendly and pollution-free raw materials to prevent environmental damage. Based on the distinctive nature of its business, the Company offers water treatment and environmental protection products and services to other businesses, thereby fostering environmental protection initiatives.

### ESG Issue Analysis

To ensure the accuracy and completeness of information disclosure, the Company actively communicates with stakeholders and solicits their feedback on corporate social responsibility issues via questionnaires. The Company employs a matrix analysis method to evaluate the significance of ESG issues and determine the year's most pressing concerns. This functions as a roadmap for the Company's future emphasis on ESG construction and development.

#### Analysis of Substantive Issues



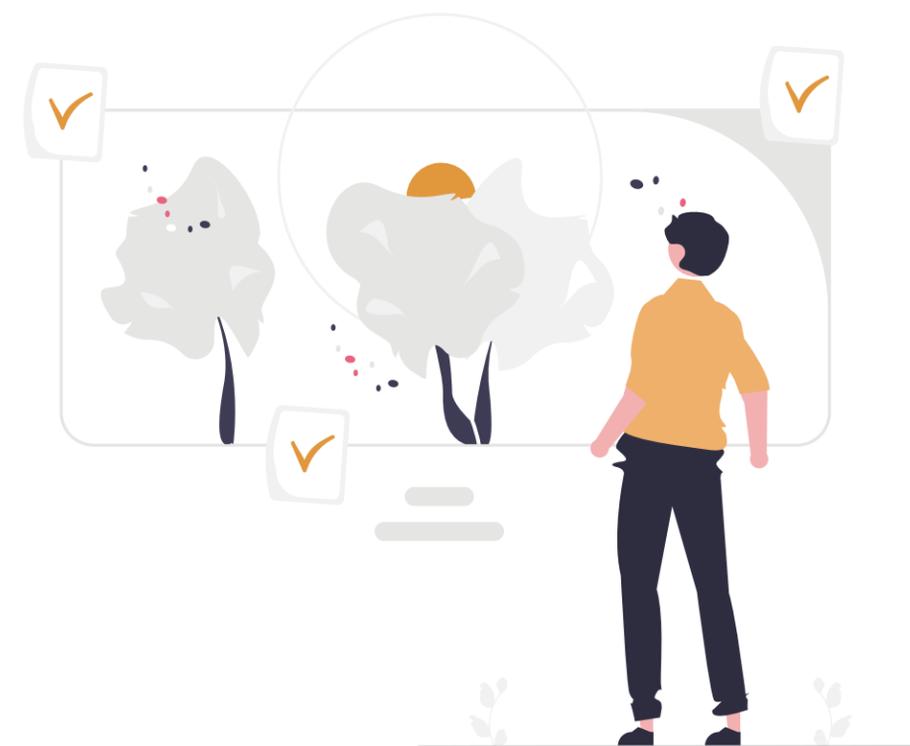
Based on the outcomes of the questionnaire evaluation, the following issues are of particular concern to stakeholders:

- ① Emergency treatment
- ② Discharge management
- ③ National policy response
- ④ Business ethics and anti-corruption
- ⑤ Technology innovation and digitalization
- ⑥ Product quality and customer service
- ⑦ Energy management
- ⑧ Occupational safety and health
- ⑨ Investment in community construction
- ⑩ Customer privacy protection
- ⑪ Compliance management
- ⑫ Environmental protection and climate change

### ESG Issue Identification

The Company has identified key ESG issues to disclose by analyzing the significance of each issue to stakeholders and the Company's growth. This approach enhances the relevance and responsiveness of information disclosure.

Environmental Issues	Staff Rights and Interests	Responsibility & Operation	Corporate Governance	Social Contribution
Discharge management	Equal opportunity and anti-discrimination	Supply chain management	Stockholder's equity	Technology innovation and digital construction
Energy management	Staff rights and interests and staff care	Product quality and customer service	Risk management and internal control	Industry progress
Material management	Occupational safety and health	Customer privacy protection	Business ethics and anti-corruption	National policy response
Environmental protection and climate change	Staff training and development	Emergency treatment	Compliance management	Investment in community construction
ESG governance				



## Stakeholder Communication

### Stakeholder Demand and Response

Qing Shui Yuan values communication with stakeholders and actively responds to their demands, while ensuring the timely and truthful, accurate, and complete disclosure of relevant company information so that stakeholders can access it in a timely manner.

Stakeholders	Expectation & Demand	Communication Mechanism and Method	Responsibility Response
 Investors and shareholders	Stable performance growth Asset appreciation Higher investment returns	Shareholders' Meeting Information Disclosure Service Hotline for Investors	Enhance profitability, strengthen corporate governance and enhance investor relations management
 Suppliers	Good partnership Integrity and mutual benefit Better industry development	Daily communication Procurement policies and tendering procedures Establishing a communication and collaboration platform Holding supplier meetings	Strengthen communication for mutual benefit and win-win situation
 Customers	Quality products and services Customer information and privacy protection Quick response Honest trading	Professional service team Group website and email Communication on Daily operations After-sales service	Provide high-quality products and services, prioritize quality management system development, and conduct regular customer follow-up
 Media and the public	Maintain transparent information disclosure Brand value and market influence Targeted interviews and exchanges	Accept media interviews Releasing information to the public and media	Maintain friendly communication with the media and the public, and actively disclose information
 Social organizations	Environment protection, energy conservation and pollution reduction Sustainable development Social welfare Support community	Information disclosure Volunteer service Charity activities	Engage in charitable activities and make an effort to contribute back to society
 Staff	Improve the salary and welfare system Rationalize and systematize the promotion mechanism Enrich education and training resources Safeguard legal rights and interests	Feedback Talks with leadership Performance appraisal Enterprise trade union	Actively respond to employee demands, establish a transparent mechanism for promotion and a solid compensation and benefits system, and enhance employee well-being
 The government and regulator	Implement national policies Pay taxes according to law Protect the environment	Information disclosure Off-site supervision On-site inspection	Implement national macro policies, implement regulatory policies thoroughly, conduct business with honesty, and actively engage in technological innovation
 Universities and research institutes	Conducting technical communication Providing employment opportunities	Strengthening scientific research cooperation Organizing campus job fairs Organizing corporate seminars Hosting visits and tours for institutions	Enhancing cooperation between universities and enterprises to realize mutually beneficial and win-win outcomes.

## ESG Performance

 Economic performance	Total assets		Operating income	
	CNY	<b>3,130,513,886.70</b>	CNY	<b>1,804,723,664.35</b>
	Total tax amount		R&D input	Total number of patents
CNY	<b>105,200,119.88</b>	CNY	<b>22,245,941.70</b>	<b>107</b>

 Environmental performance	Total investment in environmental protection		Power consumption	Water consumption
	CNY	<b>1,683,538.50</b>	<b>48,568,932</b> kWh	<b>510,536.35</b> m <sup>3</sup>

 Social performance	Total number of staff	Labor contract signing rate	Total length of staff training	Number of major safety accidents
	<b>911</b>	<b>100%</b>	<b>9,100</b> hours	<b>0</b>
	Working days lost due to occupational injury	Working days lost due to occupational injury	Total volunteer hours	Total donations
<b>15</b>	<b>0</b>	<b>146</b> hours	CNY <b>2,777,690</b>	



# Following the Party's Lead for Steady Development

Qing Shui Yuan follows closely the guidance of Xi Jinping's Thought on Socialism with Chinese Characteristics for a New Era, implements the spirit of the 20th Party Congress of the CPC, firmly supports the "Two Establishes" and the "Two Upholds", strengthens the Party construction and Party member team building, and takes the path of Party-enterprise integration and development.

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Building a Strong Defense Against Corruption 39

Party Building Leads our Way 39

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## Building a Strong Defense Against Corruption

The report of the 20th Party Congress deeply analyzes the reasons of corruption, clarifies the Party's clear stance against corruption, emphasizes the importance of fighting corruption at any time, and insists on the important deployment of a protracted war against corruption. Under the leadership of the Party Committee, Qing Shui Yuan has strengthened our "zero tolerance" policy towards corruption and bribery. The Company has fully utilized various communication platforms, such as WeChat public accounts and official websites, to disseminate the highlights of the 20th National Congress Report, firmly following the footsteps of the Party to combat corruption and punish wrongdoing with a zero-tolerance attitude, and insisting on investigating and punishing all violations, regardless of their size or difficulty. The Company persists in strictly governing itself, continuously improving its awareness of risk prevention and control for job integrity, and effectively integrating the concept of integrity into daily work.

**Case:** Our staff members watched the report of the 20th National Congress and resolutely implemented the spirit of the Party



## Party Building Leads our Way

We are forging ahead on a new journey and rendering meritorious service in a new era. In 2022, under the correct leadership and strong support of the Zhicheng Town Party Committee, the General Party Branch of the Company diligently studied Xi Jinping's Thought on Socialism with Chinese Characteristics for a New Era and implemented the spirit of the 20th Party Congress, further strengthened ideological construction among the cadres, gave full play to the role of the General Party Branch as a battlewagon in working hard and uniting all the staff members for collaboration, played a pioneering role in gathering collective strength, and promoted healthy development of the enterprise through high-quality party building.

On June 23rd, 2021, Qing Shui Yuan held a Party Committee meeting to conduct elections, and applied to the Zhicheng Town Party Committee for the establishment of three Party branches. On July 19th, 2021, the Zhicheng Town Party Committee approved the election results and the application to establish Party branches. There are a total of 48 registered Party members in the Party Branch of Qing Shui Yuan, including 16 probationary members.



In 2022, Qing Shui Yuan organized the Party members to study *Adhering to the Comprehensive Leadership of the Party is History and People's Choice*, Xi Jinping's speech at the Boao Forum for Asia (BFA), and Li Keqiang's speech at the National Teleconference on Stabilizing the Economy in order to strengthen political construction and stand firm in support of its ideals and principles.

**Case 1:** On the afternoon of February 26th, under the leadership of the General Party Branch of the Group, all the Party members and activists from different Party branches watched the patriotic educational film *The Battle At Lake Changjin II*, so as to remember the history, learn the lessons of history and forge ahead with great determination.



**Case 2:** On the afternoon of October 28th, the Party General Branch of the Group organized all Party members, probationary Party members and active applicants for Party membership to study the spirit of the 20th Party Congress. Alongside their actual work, they have discussed and exchanged implementation strategies and learning experiences.



**Case 3:** On July 1st, the General Party Branch of Qing Shui Yuan held a series of activities to celebrate the 101st anniversary of the founding of the Communist Party of China. We held a solemn flag-raising ceremony to relive our allegiance to the Party. Participating in the activities were the group's middle and senior managers, all staff members, registered Party members, and Group activists.



In 2023, the General Party Branch of the Group focuses on studying and implementing the spirit of the 20th Party Congress. Under the leadership of the Zhicheng Town Party Committee, we faithfully carry out our duties and responsibilities, firmly grasp the two core tasks of serving development through Party building and setting up a first-rate organizational team, and focus on "improving quality", "enhancing reputation" and "enhancing ability".





# Corporate Governance for Qing Shui Yuan

Qing Shui Yuan has established a compliant and scientific business system, adhering to legal operations and standardized procedures. We have also established a sensible and high-quality governance structure and internal management system, communicating actively with stakeholders and ensuring the quality of information dissemination. We continually enhance our corporate governance practices.

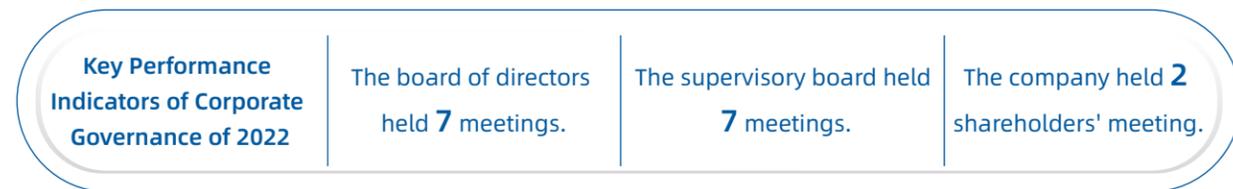
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## Three-Board Governance

The Company has established a shareholders' meeting, a board of directors, a supervisory board, and an executive team, each responsible for their respective roles in enterprise decision-making, coordinating operations, and effective checks and balances. As of the end of the reporting period, the actual status of the company's governance meets the requirements of laws and regulations such as the Company Law, Securities Law, Listed Company Governance Guidelines, Shenzhen Stock Exchange GEM Listing Rules, and Normative Operations, and the Company continually improves its governance structure and establishes a sound internal control system. The Company does not have issues of industry competition or related party transactions caused by partial restructuring, industry characteristics, national policies, or mergers and acquisitions.



### Shareholders and Board of Shareholders

During the reporting period, the Company convened and held shareholders meetings in strict accordance with the requirements of the Rules for the General Meetings of Shareholders of Listed Companies and Rule of Procedure of Shareholders Meeting. The Company also provided online voting to facilitate shareholders' participation in the meetings, treated all shareholders equally, and ensured that all shareholders, especially minority shareholders, have the right to be informed and participate in major company matters.

### Directors and Board of Directors

The Board of Directors of the Company consists of 9 directors, including 3 independent directors, accounting for 33.33% of the total number; and 3 female directors, accounting for 33.33% of the total number. The number of directors and the composition of the board are in compliance with the relevant laws and regulations, the Articles of Association, and the requirements of the Shenzhen Stock Exchange for GEM-listed companies. The directors of the Company are familiar with the relevant laws, regulations and departmental rules, understand the operation status of the Company, actively participate in relevant trainings, attend Board of Directors meetings and general meetings of shareholders and express opinions deliberately in accordance with the Rules and Procedures for Meetings of the Board of Directors, Independent Director System, and Standard Operation.

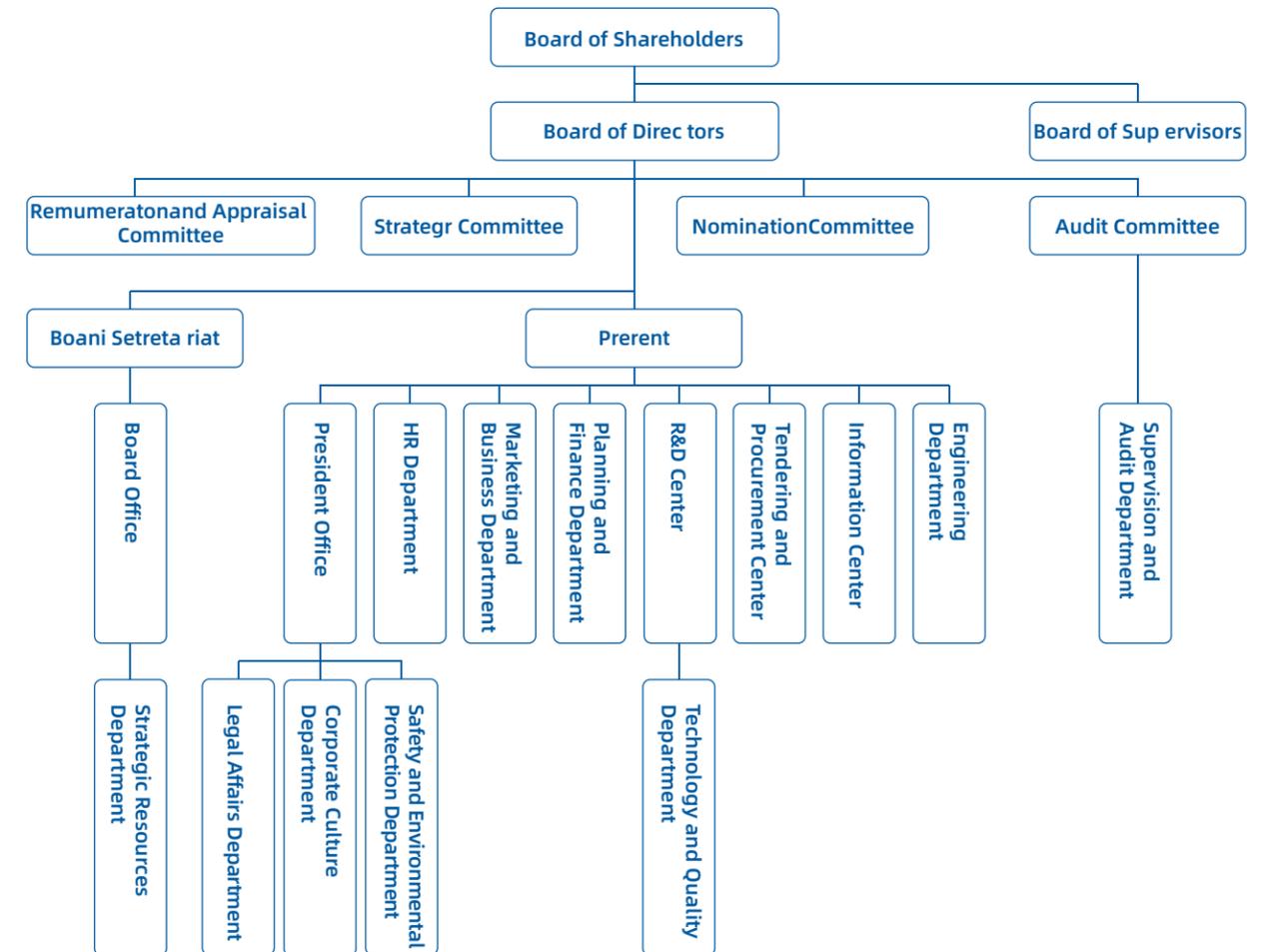
The Company's Board of Directors has four committees: the Strategic Committee, the Nomination Committee, the Audit Committee, and the Remuneration and Appraisal Committee.

In 2022, the Strategic Committee held 1 meeting, the Nomination Committee did not hold any meeting, the Remuneration and Appraisal Committee held 1 meeting, and the Audit Committee held 6 meetings.

### Supervisors and Board of Supervisors

The supervisory board consists of 5 supervisors, including 2 staff representatives and 1 female supervisor. The number of supervisors and the structure of the board are in compliance with the requirements of the relevant laws and regulations and the Articles of Association. The Company elects supervisors and staff representatives in strict accordance with the Company Law, Articles of Association, etc. The Board of Supervisors conscientiously performs its duties, and in addition to deliberating on daily affairs, it plays a good role in supervising the Company's connected transactions and financial status, as well as directors and senior managers' performance of duties, so as to effectively safeguard the legitimate rights and interests of the Company and its shareholders.

## Organizational Structure



## Returns to Shareholders

To improve the Company's scientific, sustainable and stable dividend decision-making and supervision mechanism, pay back to the investors and guide the investors in establishing a concept of rational, long-term investment, the Board of Directors formulated the Henan Qingshuiyuan Technology Co., Ltd. Shareholder Return Plan for the Next Three Years (2022-2024) in accordance with the Notice of Further Implementing Affairs Related to Cash Dividends in Listed Companies, Regulatory Guidelines No. 3 for Listed Companies: Cash Dividends in Listed Companies (Revised in 2022), and China Securities Regulatory Commission No. 3 Announcement (2022), issued by the China Securities Regulatory Commission, as well as the Articles of Association.

Future profit distribution plan:

On the premise of ensuring corporate profitability, if the Company does not make major investment or significant expenditure (the amount accounts for more than 10% of the Company's most recent audited net assets and the absolute amount exceeds CNY 5 million), profits should be distributed in cash, and the annual profit distributed in cash shall not be less than 20% of the attributable profit realized in the same year.

Dividend distribution in the past three years:

From 2019 to 2021, the Company's cumulative dividends for three years totaled CNY 49,922,056.73.

## Investor Relations Management

The Corporate Secretary is responsible for investor relations management and daily information disclosure work, receiving visits and inquiries from shareholders. The Company strengthens the management over information disclosure and carries out its obligation of information disclosure in strict accordance with the relevant laws and regulations and the *Information Disclosure Management System*. Also, it has chosen the *China Securities Journal*, *Securities Times*, *Shanghai Securities News*, and *Securities Daily* as the newspapers for information disclosure, and designated *cninfo* (<http://www.cninfo.com.cn>) as the website for information disclosure to ensure that all the shareholders of the Company have equal access to information. According to the requirements of the Investor Relations Management System, the Company strengthens communication with the investors to enhance their understanding and recognition of the Company.

<p>The Company held one online briefing on the annual report in 2022</p>	<p>The Company answered <b>97</b> calls from investors in 2022</p>	<p>The Company interacted with investors <b>102</b> times on the interactive platform, and answered <b>115</b> questions raised by investors, achieving a <b>100%</b> response rate.</p>
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## Information Disclosure

The Company discloses information faithfully, accurately, completely and in a timely manner in strict accordance with the *Administrative Measures for the Disclosure of Information of Limited Companies*, and *Shenzhen Stock Exchange Guidelines 2 for Self-regulation of Companies Listed on Shenzhen Stock Exchange: Standardized Operation of Companies Listed on GEM*. In 2022, the Company issued a total of 103 announcements and disclosed 75 relevant documents. In 2022, the Company was not punished for illegally disclosing information.

## Supervision, Audit and Anti-Fraud

The Supervision and Audit Department is responsible for the management of internal audit systems, financial audit management regulations, construction project audit management regulations, off-office audit management regulations, internal control evaluation systems, anti-fraud and reporting mechanisms, complaint management regulations, and internal accountability systems.

Qing Shui Yuan has set up the Supervision and Audit Department in order to strengthen its internal audit supervision, carry out economic activities in a healthy and orderly manner, safeguard the national financial regulations and corporate rules and regulations, and improve management and economic benefits. The Supervision and Audit Department carries out the audit work independently under the leadership of the Audit Committee. In 2022, the Supervision and Audit Department set up an audit team for field auditing on Shuiyunzong, Shaanxi Ande, Qingshuiyuan Shanghai, Syngenetic Environmental, Siweida, and the Group. A total of six internal audits were conducted on the relevant subsidiaries.

Audit policy: **“Provide services, prevent and control risks, and improve efficiency”**

In order to prevent and control fraud, strengthen corporate governance and internal control, reduce company risks, standardize business behavior, ensure the achievement of company business objectives and sustainable, stable, and healthy development, and protect the legitimate rights and interests of the Company and shareholders, Qing Shui Yuan has established the Supervision and Audit Department as a permanent institution responsible for organizing and implementing the Company's anti-fraud work. Its specific responsibilities include:

- 01 Conducting independent evaluations of the Company's anti-fraud work;
- 02 Assisting in conducting anti-fraud publicity activities;
- 03 Reviewing and evaluating the establishment and implementation of the Company's anti-fraud control mechanisms;
- 04 Responsible for accepting and registering fraud reports, organizing the investigation of frauds, issuing opinions on treatment and reporting to the management and the board of directors, working under the guidance of the board of directors, etc.



The audit team audited Tongsheng Environmental



The audit team audited Ande Technology

## Compliance Management

The Company adheres to legal corporate governance and construction. With a focus on strengthening compliance management, the Company intends to provide more education on compliance management, consolidate the concept of compliance operation, construct a comprehensive compliance management system, increase the level of compliance management, consolidate the daily management work, and conduct compliance training at various levels to guarantee lawful business operation.



Specialized training for controlling shareholders and actual controllers of listed companies



Training on corporate governance



Training on the standardized operation of GEM-listed companies and training on code of conduct for directors and supervisors



Training on investor relations management



# Homeland Protection

Qing Shui Yuan has always been committed to the concept of green development, keeps making efforts to conduct low-carbon management, actively promotes green office and environmental awareness in response to the “Carbon Peaking and Carbon Neutrality” Goals.

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**SDGs**

<b>12</b> RESPONSIBLE CONSUMPTION AND PRODUCTION 	<b>7</b> AFFORDABLE AND CLEAN ENERGY 	<b>11</b> SUSTAINABLE CITIES AND COMMUNITIES 
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## Environmental Management

Qing Shui Yuan strictly complies with the relevant national and local environmental laws and regulations, such as the Environmental Protection Law of the People's Republic of China, Law of the People's Republic of China on Prevention and Control of Water Pollution, Law of the People's Republic of China on Prevention and Control of Environmental Pollution by Solid Waste Pollution, etc. We have established the Department of Environmental Protection as a full-time management department to regulate the Company's environmental management work and improve control over environmental protection. In 2022, Qing Shui Yuan has invested RMB 1,683,538.50 in environmental protection.



### Environmental Management System

The Company's environmental management system has passed ISO 13001 certification, which covers the research and development, sales and technical services of water treatment chemicals and water treatment dosing systems; the sales of chloromethane and phosphite within the scope of qualification; and the related environmental management activities involved in the research and development, production (outsourcing) and sales of environmental protection equipment using intelligent water treatment.

The Company has established 37 systems related to environmental protection and management, some of which are shown below:

Environmental protection facilities management system	Environmental risk management system	Environmental protection responsibility system	Clean production management system
Environmental protection facilities operation and management system	Environmental hazard investigation record reporting management system	Environmental hazard identification and control responsibility system	Factory environmental health management system
Environmental protection facilities alter management system	Major environmental risk supervision system	Hazardous waste control responsibility system	Rainwater and sewage diversion management system

### Environmental Protection Tenet

The environmental protection work needs to be done on the principle of three simultaneities and five incorporations.

- Three simultaneities** — the environmental protection work is arranged, inspected and reviewed as the work is done.
- Five incorporations** — the environmental protection work is incorporated into the action of increasing production and saving, into the economic responsibility system, into enterprise management, into production scheduling management, and into the work plans of various departments.

### Environmental Protection Goals

- Avoid all kinds of major environmental pollution accidents.
- Avoid purchasing labor protection supplies, facilities and equipment that do not meet national standards or industry standards. Obtain relevant certificates and instructions when purchasing labor protection supplies, facilities and equipment. Use or install, adjust and operate in strict accordance with the instructions.
- For new, renovation or expansion projects, environmental protection facilities should be designed, constructed and put into production and use at the same time as the main project.
- For new, renovation or expansion projects, environmental impact assessment should be conducted first. If the environmental conditions do not meet, stop the construction.
- For new, renovation, expansion projects, environmental impact assessment is needed within three months of production operation trial. An application for acceptance to the relevant department is also needed at the same time, the production would be prohibited if the acceptance is failed.
- The indicators of "three waste" emissions are in full compliance with the relevant national standards.
- Carry out clean production as required.

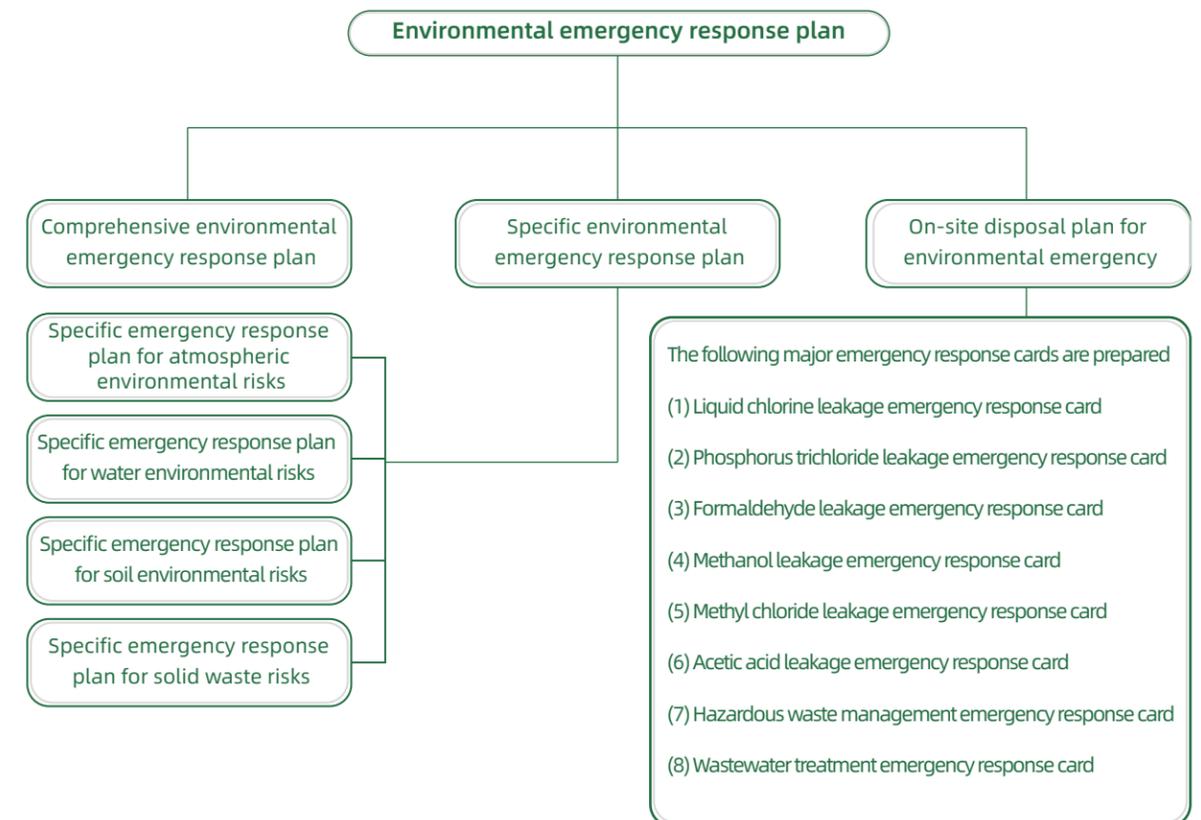
### Emergency Response Plan for Sudden Environmental Incidents

According to the *Interim Measures on Environmental Emergency Response Plan*, *Interim Measures for the Filing Management of Emergency Response Plan for Environmental Incidents in Enterprises and Public Institutions*, *Interim Measures for the Filing Management of Emergency Response Plan for Environmental Incidents in Enterprises and Public Institutions in Henan Province*, etc. In order to protect the surrounding environment and the human health, standardize the response work after the incident, improve the ability to respond to the incident, avoid or reduce the impact of the incident, and strengthen the connection between the Company and the government's related work, Jiyuan Qingyuan Water Treatment Co. Ltd. Huling Branch has compiled *Measures on Environmental Emergency Response Plan of Jiyuan Qingyuan Water Treatment Co., Ltd. Huling Branch*.

The Company's emergency plan for environmental emergencies consists of comprehensive emergency plan, special emergency plan and emergency disposal card, in which the comprehensive plan is strategic, the special emergency plan is tactical, and the emergency disposal card is operational.

The major environmental risks of the Company are the leakage of Chloromethane, hydrochloric acid, methanol, liquid chlorine, formaldehyde, phosphorus trichloride, hydrogen chloride, methyl acrylate, acetic acid, yellow phosphorus, and ethylenediamine, as well as the hazards to the surrounding environment and people's health from the toxic and harmful substances secondary/associated with the fire and explosion accidents of the above substances. For this reason, the Company reinforces the connection with the surrounding environment and protection targets to prevent risks in daily life.

Various substances involved in the Company, such as yellow phosphorus, methanol, chloromethane, etc., in addition to having a certain degree of toxicity, most of them are also flammable and explosive. Therefore, in the process of environmental emergency rescue, it is necessary to combine with the production safety accident emergency rescue work to avoid fire and explosion accidents with special attention.



## Energy and Resource Management

### Energy Management

Qing Shui Yuan has been reinforcing scientific management of energy for many years and striving to build a resource-saving enterprise according to its own production and operation. The energy used by Qing Shui Yuan includes electricity, natural gas, diesel and gasoline, etc. The breakdown of Clearwater's electricity consumption in 2022 is shown in the following table:

Energy Type	Unit	2022 data	2021 data
Electric power	KWh	48,568,932.00	37,010,402.51

Note: The statistical caliber of electric power is Qing Shui Yuan, Tongsheng Environmental, Qingyuan Water Treatment, Ande Technology, and Shuiyunzong

The forklifts, material handling equipment used in the filling workshop, have been upgraded to electric forklifts, which reduce the fuel consumption caused by traditional forklifts and effectively minimize greenhouse gas emissions.

### Water Resource Management

Type of water use	Unit	2022 data
Water consumption in office	m <sup>3</sup>	50,432.30
Water for production	m <sup>3</sup>	460,104.05

Note: The statistical caliber of water consumption in office is Qing Shui Yuan, Tongsheng Environmental, Qingyuan Water Treatment, Ande Technology, and Shuiyunzong

The statistical caliber of water for production is Qing Shui Yuan, Qingyuan Water Treatment, Ande Technology, and Shuiyunzong

Qing Shui Yuan vigorously promotes water conservation, improves the efficiency of water resources utilization, actively implements water conservation procedures in all aspects of production and operation, reinforces water conservation propaganda work, and forms a good atmosphere for water conservation throughout the Company.



## “Three Wastes” Emission Management

The Company strictly follows the "Law of the People's Republic of China on the Prevention and Control of Atmospheric Pollution", "Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Waste", "Law of the People's Republic of China on the Prevention and Control of Water Pollution" and other pollution prevention laws and regulations, various industrial pollution sources have been regulated, and the emission of "three wastes" is in line with the national emission system. Pollution source management facilities supporting rate greater than 95%, the annual operating rate of environmental protection facilities greater than 95%.

Specific regulations:

- 01 The Company must implement "new instead of old" principle when building the expansion and technical reform projects of the old products, and solve the "three wastes" of the old and the new together, so as to increase production without increasing pollution and not to produce new sources of pollution.
- 02 The solid waste generated during production should be comprehensively utilized as much as possible and the rest would be emitted after harmless treatment. For temporary storage, the space must be closed up to prevent leakage.
- 03 The recyclable "three-waste" resources and excess heat should be utilized as long as it is technically feasible and economically reasonable. The utilization rate should be higher than 80%. Available tail gas generated during production should be recycled or disposed, and shall not be directly discharged;
- 04 We hire a third-party organization to regularly monitor the Company's "three wastes" emissions and the indicators of sewage and clear water at each stage of the sewage treatment station occasionally, to grasp the concentration of pollutant emissions and total emissions of the enterprise, and fill in the environmental protection statistics on time and accurately.
- 05 Making progress in technological innovation and comprehensive utilization, and improve management to completely eradicate any form of leakage, so as to eliminate or reduce "three wastes" in the production process.

### Hazardous Waste Management

Qing Shui Yuan strictly complies with the *Law of the People's Republic of China on the Prevention and Control of Solid Waste Pollution*, based on which the Company has established the *Hazardous Waste Management System*. We start from the source of the manufacturing process, manage the whole process and carry out emission reduction and recycling measures.

#### Measures to reduce the amount and toxicity of hazardous waste :

- (1) Enhancing the management of hazardous waste;
- (2) Strengthening the operation management of production equipment to ensure stable production and reduce the generation of hazardous waste;
- (3) Hazardous waste generated by the classification of storage, timely delivery to qualified institution for treatment;
- (4) Enhancing hazardous waste storage sites impermeable, leak-proof, fire proof and anti-theft work;
- (5) Continuously improve the process and reduce the amount of activated carbon;

- (1) Hazardous waste control responsibility system
- (2) Hazardous waste identification management system
- (3) Hazardous waste management plan system
- (4) Hazardous waste declaration and registration system
- (5) Hazardous waste transfer management system
- (6) Hazardous waste classification, storage and transportation management system
- (7) Hazardous waste inventory documentation system
- (8) Hazardous waste treatment personnel training system
- (9) Hazardous waste treatment personnel protection system

### 2022 Annual Hazardous Waste Plan Schedule

Waste Name	Waste Type	Harmful Substance Name	Physical Characteristics	Hazardous Characteristic	Planned Production for 2022 (ton)	Actual Production in 2021 (ton)	Source and Production Process	Plan to reduce the amount of Hazardous Waste
Spent activated carbon	Waste organic phosphine /HW37	Organic phosphine	Solid	Toxic	141.50	93.12	Decolorization process	Enhance process control, and reduce the use of decolorizing agents
Used engine oil	HW08	Mineral oil	Liquid	Flammable	6	0.36	Equipment inspection and maintenance, inventory clearance process	Improve equipment maintenance
Used filter gauze	Waste organic phosphine /HW37	Organic phosphine	Solid	Toxic	0.50	0	Decolorization process	Enhance process control, and reduce use of decolorizing agents
Sludge	HW37	Organic phosphine	Solid	Toxic	8	4.48	Waste water treatment	Enhance the control over the wastewater treatment process, appropriate reduction in the use of phosphorus removal agents
Phosphorous slag	Waste organic phosphine /HW37	Organic phosphine	Solid	Toxic	2	0	Phosphatic slag generation in chlorination container	Improve the quality of outsourced yellow phosphorus

### EIA and emissions permit management

In 2018, the Company completed the Qingyuan Water Treatment annual capacity of 180,000 tons of water treatment agent expansion project environmental impact report" and obtained the environmental assessment approval from Jiyuan Ecological Environment Bureau in September. According to the requirements of the EIA , the Company strictly implements the environmental protection measures of the project, and treats the external pollutants such as exhaust gas, waste water, noise and solid waste to meet the specified emission requirements.

At the end of 2021, the trial production of the annual production capacity of 180,000 tons of water treatment agent expansion project was completed and obtained the safety production license issued by the Henan Provincial Department of Emergency Management. [No.: (Henan U) WH [2021]0004].

According to the requirements of the emission permit of Jiyuan City Ecological Environment Bureau, Qingyuan Water Treatment has prepared an environmental self-monitoring program at the Hu Ling branch.

### Green Office

The Company has always practiced diligence and frugality, opposed extravagance and waste, advocated low-carbon life, and eliminated corruption in official activities and transportation travel.

**•Paperless office:**

The Company promotes short meetings and video meetings to reduce the printing of paper documents

**•Water and electricity conservation:**

The Company prohibits long-term standby operation of office equipment, "daytime light" , "long-time light" , and "long-time running water" .

**•Reduce elevator usage:**

The Company encourages to take the stairs rather than take the elevator below 3rd floor.

**•Garbage classification:**

Dry batteries are recycled separately, and recyclable waste such as waste cartons and cans are categorized for recycling.



### Environmental Training

According to the "Environmental Protection Training and Education System" developed by the Company, new employees must be trained in safety and environmental protection knowledge before they start working in the factory, all the employees are trained in environmental protection at least once a year. In 2022, the Company organized six training programs in environmental protection. The training covered "Environmental Protection Law of the People's Republic of China", "Air Pollution Prevention and Control Law of the People's Republic of China", "Water Pollution Prevention and Control Law of the People's Republic of China Law on Prevention and Control of Environmental Pollution by Solid Waste" and "Measures for the Management of Hazardous Waste Transfer". By learning environmental protection laws and regulations, employees understand and consciously comply with the relevant provisions of the state, the environmental protection behavior in daily production activities and improve the awareness of environmental protection.

**Training content:**

- ① National laws and regulations, as well as the rules and regulations of higher authorities
- ② Knowledge of safety and environmental protection
- ③ Knowledge about the hazardous characteristics of the materials
- ④ Basic knowledge about the Company's emergency response plan and accident prevention
- ⑤ Operation procedures for facilities and equipment
- ⑥ Typical cases of safety and environmental protection accidents





# Sustainable employment

Qing Shui Yuan strictly abides by the national laws and regulations on employment and labor rights protection, firmly opposes the use of child labor employment and forced labor, keeps optimizing the employee structure, and increase staff motivation while safeguarding their legal rights and interests, effectively enhancing the cohesion and sense of belonging of employees.

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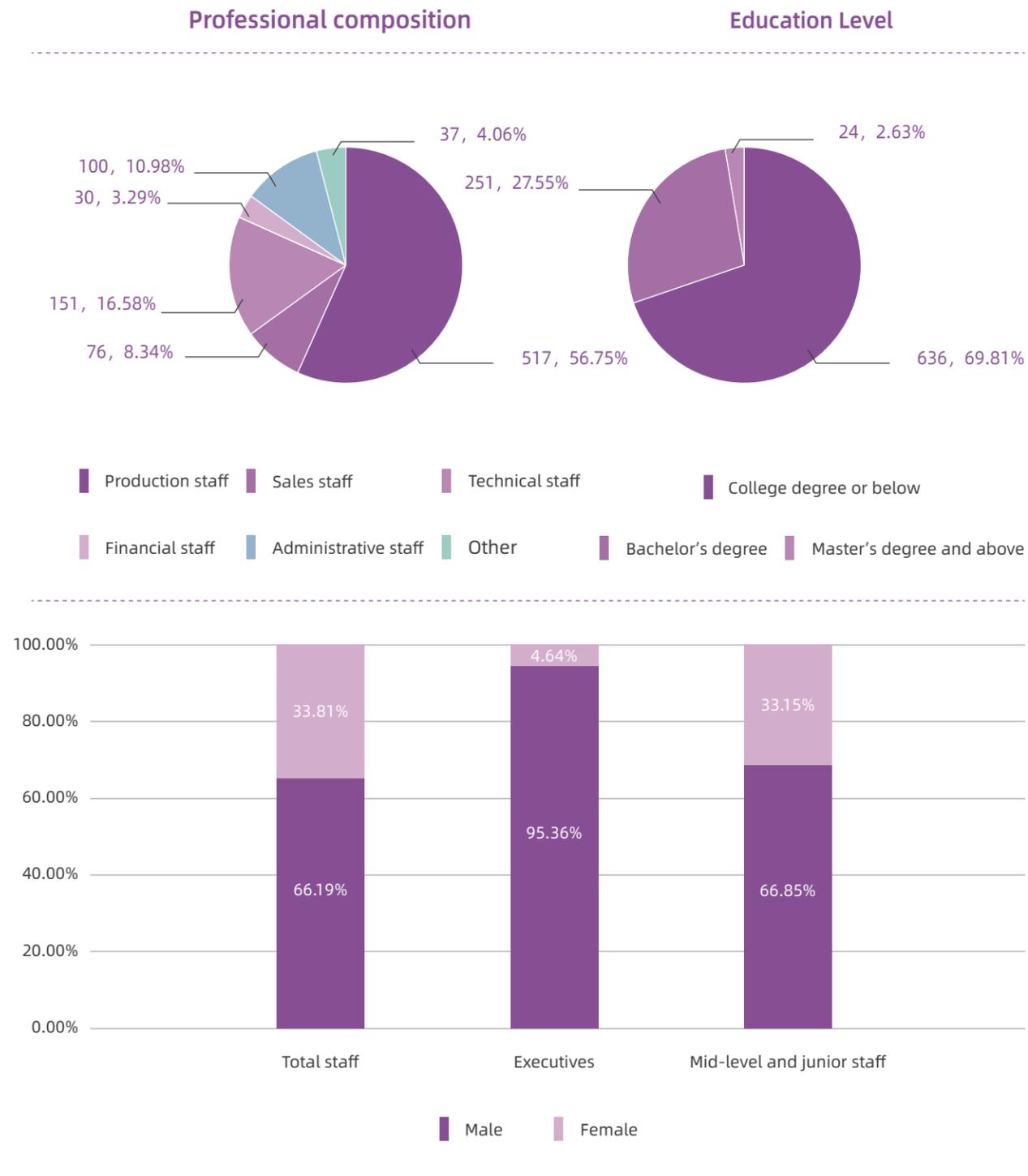
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### SDGs



## Employee Structure

The Company continuously optimizes the structure of its employees to achieve a reasonable distribution of employees in terms of gender, age and education, and to effectively build a diversified workplace system. As of the end of the reporting period, the total number of employees in the Company's workforce was 911, and the ratio of male to female employees was 6:3.



## Employee Recruitment

Employees are the cornerstone of the Company and the most valuable asset. It is important for the Company to give full respect to the employees and establish a comfortable environment for them. Therefore, Qing Shui Yuan builds a community of corporate employees' destiny and insists on the concept of relying on employees for development, developing for employees and sharing the achievements with employees. We effectively protect the rights and interests of employees, through the signing of collective and individual labor contracts, the establishment of a comprehensive human resources management system, to ensure that employees have equal opportunities for job promotion, and equal pay for equal work for male and female workers.

The Company strictly abides by the relevant laws and regulations including the *Labor Law of the People's Republic of China and Special Provisions on Labor Protection of Female Staff and Workers*. We firmly protect the legal rights and interests of our employees, provide maternity allowance for female employees, strictly prohibit the employment and use of child labor, resist all forms of forced labor, provide equal employment opportunities and labor security for employees of different nationalities, ethnicities, races, genders, ages, religious beliefs and cultural backgrounds, and avoid discrimination in employment. In 2022, 0.2% of our employees is ethnic minorities.

The Company implements a salary policy that closely links labor compensation with economic efficiency, labor efficiency and personal performance. The total amount of employee remuneration is closely related to the operating efficiency of the Company. An internal communication platform has been set up to actively listen to the opinions and suggestions of employees and create a good working environment for them.

## Employment Development

Qing Shui Yuan is committed to building talent teams at different levels, and continues to promote the standardization and normalization of staff learning and growth. We provide internal teaching, continuing education, school-enterprise cooperation and other diversified ways to fully mobilize the enthusiasm of staff learning, and constantly optimize the staff knowledge structure, steadily improve the level of staff skills, and vigorously consolidate the construction of the talent team. Ultimately, the enterprise and the staff should grow together.

The Company focuses on management and development strategy, scientific planning and allocation of human resources. We will always adhere to the talent strategy, improve the talent management system, "select, train, employ and retain" people more scientifically, and enhance the comprehensive competitiveness with talent as the core. In 2022, there were 161 training sessions with a total of 9,100 hours of training.

**Case 1:** In 2022, we had five training sessions for middle and senior managers and reserve cadres, with a total of 1,160 hours of training. The Company expects that the training will further enhance the self-discipline and management awareness of the personnel who perform their duties, and improve their ability.

Training Topics	Training Duration /Hour	Number of Trainees	Total Training Duration /Hour
Training on organizational capacity building	16	39	624
The Road to Sustainable Growth of "Midea"	8	24	192
New measures for accelerating the construction of a unified national market	4	34	136
Grasping the new development stage, implementing the new development concept, building a new development pattern, and promoting high-quality development	4	28	112
Build a team of profitable expert managers and business leaders	6	16	96
<b>Total</b>	<b>38</b>	<b>141</b>	<b>1,160</b>

Case 2: The sales team is an important part of the Company and serves as a "bridge" between the Company and its customers. Training for sales staff is essential for the Company. In 2022, the Company conducted training for the sales staff 3 times, with a total duration of 1,422 hours.

Training Topics	Training Duration /Hour	Number of Trainees	Total Training Duration/Hour
Specific training on improving the skills for the sales of industrial products	6	79	474
Training on key clients relationship management and maintenance	6	79	474
Training on the sales account collection techniques	6	79	474
<b>Total</b>	<b>18</b>	<b>237</b>	<b>1,422</b>



Marketing training

## Employee Welfare

The development of employee welfare programs helps to bring employees closer together and strengthen their sense of belonging.

The Company has established a perfect salary management system based on the relevant national laws and regulations, combined with the Company's corporate culture, external environment and other actual conditions. We use different salary strategies for different departments, different positions and different personnel to seek stable labor relations. At the same time, the Company strictly implements the national regulations on social insurance, pays housing fund, handles social insurance such as pension insurance, medical insurance, unemployment insurance, work injury insurance, maternity insurance, etc., and pays all insurance fees in full and on time every month. According to the national maternity and insurance policy, we strictly guarantee female employees to enjoy maternity insurance and all the legal rights, protect the basic life of female employees during maternity leave. Qing Shui Yuan has set up the staff canteen, sterilize the tableware on the daily basis, strictly focus on food safety, and pay attention to the needs of employees. We insist on the concept of "eat healthy, eat at ease, eat comfortably" and provide a variety of pasta options for employee.

### Employee Stock Ownership Plan (ESOP)

In 2021, Qing Shui Yuan established the implementation of the first phase of the ESOP with a total of 5,002,067 shares, accounting for 2.01% of the total share capital of the Company at that time. Through the implementation of the ESOP, employees became shareholders of the Company, enhancing the connection between the core team and the Company and stimulating the enthusiasm and creativity of employees. On the other hand, it improved the corporate governance structure and contributed to the benefit sharing mechanism between employees and shareholders.

Employee Welfare List	Supplementary commercial insurance	Provide personal accident insurance for employees
	Supplementary pension insurance	Provide corporate pensions for employees
	Holiday benefits	Provide Spring Festival and Mid-Autumn Festival benefits for employees
	Women's Day	Provide a half-day holiday and a holiday allowance of RMB 150 for every female employees
	Birthday gifts	Every employee receives a birthday cake card from the trade union in the month of their birthday
	Meal allowance	Provide meal allowance for employees
	Activity room	The table tennis room, yoga room and golf room are open to all the staff for free

Case: Employee canteen



## Employee Care

The Company insists on the core value of people-oriented, cares about the work, life, health and safety of employees, devotes to building harmonious labor relations, actively helps employees in difficulties, and makes employees feel the warming care of the Company.

### Employee Mental Health

We highly concerned about the mental health of the staff, Qing Shui Yuan established "Tai Chi Center Qing Shui Yuan Branch" in July 2021, starting to carry out a full-staff Tai Chi fitness activity. This activity aims to enrich the spare time of employees, through Tai Chi exercise to strengthen the body, healthy life and happy work. Wang Zhiqing, Chairman and President of the Company, said to the staff, "Youth is limited, so does life. Keep up the effort." I hope that all the staff members will lead a healthy life after work."

Case 1: At "Tai Chi Time", employees did exercise together.



Since the activity was launched, the Company has issued a series of documents such as the *Notice on Offering Tai Chi Boxing Class*, *Notice on the opening Tai Chi Fitness Activities class*, *Notice on Further Standardizing Tai Chi Fitness Activities*, and *Notice on Conducting Grouped Management over Tai Chi Fitness Activities*. Comfortable and light Tai Chi clothing has been provided for the trainees. The Company's senior and middle leaders set an good example by their actions, driving hundreds of employees in Jiyuan area to practice Taiji every morning, and regularly carry out exchange meetings and issue honorary certificates to outstanding Taiji students.

More and more people benefit from persistent Tai Chi training. Being more energetic and sturdier, the employee can do their work better. They seek joys in sports, keep fit in happiness, and work in good health.

**Case 2:** A learning and exchange activity was held to mark the first anniversary of “Qing Shui Yuan - Tai Chi - Health” Tai Chi Fitness Program. The Tai Chi trainees of Qing Shui Yuan shared their experience of the practice accumulated over the past year and expressed their gratitude to the warm family of Qing Shui Yuan for providing a platform for employees to show their talents. We cares about the physical and mental health of the employees. One hour of exercise every day allows them to maintain 50 years of health and lead a happy life for a lifetime.



## ◆ Employee Assistance

The Company always upholds the purpose of "caring for employees with heart and warming them with love". In 2022, we held the "Sending Warmth" staff care activities and visited more than 20 employees in need.

**Case:** The Company leaders visited workers in difficulty



## ◆ Employee Occupational Health & Safety

The Company has ISO45001 occupational health and safety management certification, and strictly abides by occupational health laws and regulations, and continuously improves the occupational health management system. From leadership and responsibility, laws, regulations and standards, occupational health "three simultaneous", occupational health training and education, we carry out comprehensive health management to achieve long-term occupational health goal.

The Company regularly provides physical examinations for the employee, and gives various lectures on health knowledge to effectively protect their physical and mental health. We formulate and constantly improve relevant emergency plans, strengthen safety education and disease control for all employees, and improve the working environment and living conditions of employees. By doing regular inspection, physical examination and education and training, we can minimize the hidden health and safety hazards in the working environment and protect the health and safety of the employees.

## ◆ Employee Rights

Employees are an important part of the Company, and Clearwater fully respects and protects all the legal rights and interests of employees. We cherish the life, health and safety of employees, respect labor, respect knowledge, respect value creation, and strictly abide by the Labor Law of the People's Republic of China, Labor Contract Law of the People's Republic of China, Regulations on the Implementation of the Labor Contract Law of the People's Republic of China, Social Insurance Law of the People's Republic of China and other relevant laws and regulations to protect the legitimate rights and interests of employees.

The Company constantly improves the management system related to employment and welfare, implements the labor contract system, establishes a standardized labor relationship with employees, specifies the rights and interests that employees enjoy and the obligations they should fulfill; strictly implements the national regulations on social insurance including the five basic insurance and housing fund.

Labor contract signing rate: **100%**

Employment of child labor and forced labor: **0**

## ◆ Employee Democracy

The Company has a well-established system of staff representative assembly, standardized democratic management and supervision mechanism, which protects the right to information and participation of the staff according to the law. Over the years, the Company has taken the protection of employees' rights and interests as the core of its work, strengthened the maintenance function, innovated the means of maintenance, listened extensively to the opinions and suggestions of employees, paid attention to the ideological dynamics, sent warmth to employees to solve their problems, and deepened democratic management. In 2022, the first four staff representative conference were held to collect the opinions of employees, care and pay attention to the reasonable needs of employees.

In addition to the staff representative conference, the Company has also established a perfect factory affairs disclosure system and set up a factory affairs disclosure working group and a supervision group. The working group is responsible for undertaking the specific issues of factory affairs disclosure and making explanations or solutions to the employees; the supervisory group is responsible for supervising the timing, authenticity and legality of the procedures to ensure whether the feedback from the public is resolved.

The leadership actively listens to the staff's voice, implements their wishes, and protects their rights and interests, making progress to achieve democratic management of the Company.

**Case:** The staff attended the first four staff representative conference





# Caring for Society

Qing Shui Yuan has always been committed to a sustainable corporate development path. While creating economic value, we actively contribute to society and participate in various social welfare charity projects. Over the years, Qing Shui Yuan has actively participated in poverty alleviation, disaster relief, helping the elderly and disabled, epidemic prevention and control, new rural construction and other public welfare projects.

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**SDGs**

**1**  
NO  
POVERTY

**3**  
GOOD HEALTH  
AND WELL-BEING

## Assistance in Education

Qing Shui Yuan insists on helping the national education cause and contributing to China's education. The Company set up a special fund of CNY 500,000. On September 9, the thirty-eighth Teachers' Day, the "Jiyuan Charity Federation - Qing Shui Yuan Fund" was launched and the freshmen scholarship donation ceremony was held in the lecture hall of Qing Shui Yuan. This activity issued scholarships for 28 freshmen with the amount of CNY 140,000.

Wang Zhiqing, chairman of the board and president of the Company, pointed out that donating to schools and developing education is a great contribution in the present time and a great benefit in a lifetime. To fulfill its social responsibility, Qing Shui Yuan is duty-bound to support it. The Company will regulate the management of the fund and improve the transparency of the use of the fund. Under the supervision of the General Association of Charity, the charity fund is well managed and well used to ensure that the funds are used for the most critical educational purposes and giving full play to the effectiveness of the use of funds.



## "Anti-Illegal Fundraising" Publicity

In response to the Henan Provincial Securities Regulatory Bureau's document "Notice on the Publicity Month of Preventing Illegal Securities and Futures in 2022", the Company held a seminar on financial fundamentals from May 1 to May 31 called "Publicity Month of Preventing Illegal Securities and Futures". The seminar enabled investors to fully understand the characteristics and types of illegal securities activities and the channels to protect their rights, and promote the correct investment concept. For illegal fund-raising and illegal securities business activities, we carried out "prevention of illegal and non-permanent" publicity and investor risk education. We also introduce some cases to further enhance investors' ability to identify and prevent illegal securities activities.

Pay high attention to and actively learn "anti-illegal fundraising and securities operation":

The Company arranged and studied the documents for the employees to fully understand the severity and danger of illegal securities and futures activities.



The staff was learning relevant documents

Actively deployed to carry out the "anti-illegal fundraising and securities operation" publicity:

We arranged the publicity in both offline and online mode. People can learn different cases online through our official website and official wechat account. On the other hand, we take various ways to conduct publicity in person while improving the internal training for employees.



Safety Manual for "Anti-Illegal Fundraising" Publicity

publicity by volunteers

Publicity slogans appeared on the screen

## Public Welfare Activities

Qing Shui Yuan takes the responsibility of protecting the environment and building a beautiful China. As a listed Company, we actively participate in social public welfare while striving to achieve its own green development, good corporate citizenship, carry out green public welfare activities with corporate characteristics, adhere to development of human and nature, and build a long-term relationship with society. In 2022, Qing Shui Yuan held public welfare activities with a total duration of 146 hours.

Case 1: On the morning of March 6th, 2022, Han Guangwu, Secretary of the Party General Branch of the Company, led a team of Party members to carry out a voluntary tree-planting activity at the "Internet+ Voluntary Tree-Planting Base", Sanhe Village, Sili Town. The Company takes practical action to implement the concept of green development of the enterprise and firmly take the road of ecological and green development.



Case 2: Blood donation—On June 17th, 2022, the Company arranged more than 50 staff members to participate in a blood donation activity.



Case: On September 1, the Company encouraged employees to participate in various charitable activities to deliver love and warmth to the poor and disadvantaged groups. We donated more than CNY 80,000 to the "99 Public Welfare Day".



## Charitable Donations

The development of the enterprise cannot be separated from the support of the society. The Company is keen to participate in social welfare activities, and always believes that the development of public welfare activities is not only the embodiment of corporate social responsibility, but also an important move to build a good Company image and enhance the pride of employees. With the continuous development and growth of the Company, we have become more and more determined to fulfill our responsibilities for social welfare. Qing Shui Yuan actively takes social responsibility through charitable donations, public welfare activities and other forms of participation in public welfare. In 2022, the Company's charitable donations statistics are as follows:

SN	Program Content	Payee	Amount (CNY)
1	Jianbei Village	Jiyuan Charity Federation	50,000
2	Jiyuan Charity Federation - Qing Shui Yuan Fund	Jiyuan Charity Federation	500,000
3	Henan Fund for Justice and Courage	Jiyuan Association for Justice and Courage	30,000
4	Charity Day of China	Jiyuan Charity Federation	40,000
5	Charity Day of China	Zhicheng Town Charity Workstation	17,690
6	Assistantship to College Freshmen in 2022	CNY 5,000 was offered in cash to each of 28 students	140,000
7	Financial Aid to the Construction of Zhicheng No.3 Middle School (Zhicheng Town Liuyang School)	Henan Youth Development Foundation	2,000,000
Total			2,777,690

## Fighting the Epidemic

During the reporting period, Qing Shui Yuan took social responsibility and responded to the work of the government, gathering all parties to fight the epidemic, donating medical supply and providing assistance to the medical workers on the front line of fighting the epidemic.

Case 1: Since late April 2022, the Company quickly arranged to voluntary supply sanitizer to some government departments in Jiyuan city. Since April 27, we divided into several groups to deliver disinfection supplies to medical institutions such as Jiyuan Epidemic Prevention and Control Command, Jiyuan Covid Treatment Center, Jiyuan Chinese Hospital. In addition, we also donated 84 disinfectant solution to 38 different institutions such as Jiyuan No. 1 Middle School, large and medium-sized enterprises, economic and technological development zones etc.



Case 2: From November 16 to 18, 2022, the Company arranged vehicles and personnel to load about 15 tons of disinfectant solution in 32 batches and delivered them to towns, street offices, economic development zones, schools, and medical institutions etc.



## Prospect of Public Welfare

The charity work of Qing Shui Yuan is guided by the spirit of the Fifth Plenary Session of the 19th CPC Central Committee, practicing Xi Jinping's new development concept, highlighting the theme of high-quality development, doing the best we can and seeking victory in stability. We will enhance our responsibility of poverty eradication, promoting the rural revitalization strategy and charity development.

- Embracing the new stage** The Company should implement the spirit of the Fifth Plenary Session of the 19th CPC Central Committee, combined with charity, grasp the implementation of the new ideas.
- Improve project quality** For the culture, assistance, solicitude, entity and platform-related charity projects, the Company is committed to further improving and standardizing the implementation procedures, implementing the management system, strengthening the supervision system, so as to enhance charity quality.
- Strengthening the fundraising mechanism** For the fundraising work, the Company combines "offline" with "online" and combines charitable fund raising with charity regulation publicity, raise funds by law, and implement a quarterly fundraising system.
- Promoting Organizational Development** Offering voluntary service for charity: the Company offers voluntary service for charity according to the requirements for stability, pragmatism and development, and actively provides assistance for poverty regions.
- Deepening charity publicity** Summarize the experience of running newspapers and stations, strive for innovation and development in text improvement, editing and quality improvement, set up advanced models, and promote the spread of charity culture.
- Jointly driving charity development** We worked closely with the Shaanxi Representative Office of World Vision to implement the "Child-based Regional Development" program in Yang County for the next four years. We are learning from the experience of the "Happy Home" project in Yang County and expanding the scope of the "Preschool Education for Children" project. We also strengthen friendly relations with charitable associations in sister cities and cooperate with the Civil Affairs Bureau, Poverty Alleviation Office and Veterans Affairs Bureau of the municipal government to improve the relevant work.



# Quality Management

Qing Shui Yuan picks suppliers in a high standard, creates a solid and high-quality supply chain, ensures product quality, and maintains good relationships with customers to provide excellent products and services.

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## Supply Chain

The Company adheres to the business philosophy of value sharing and collaborative development, and follows the principles of equality and mutual benefit, complementary advantages, honesty and credit, mutual promotion and common development. We establish stable, mutually beneficial and win-win relationships with excellent suppliers to create high-quality development of the supply chain.

### Supplier Management System

In order to ensure the quality of raw materials and quality of the our products, we strictly formulates the supplier management system, standardizes the supplier access mechanism, strengthens the supplier inspection process control, and enhances the supplier database management and online platform optimization. To meet the Company's production and operation needs, we fully integrate the concept of social responsibility into the supply chain management.

In terms of channels, the Company collects supplier information through the network, peer or supplier recommendation, public inquiry, supplier initiative contact, search on digital platforms, etc. We selects suppliers under the supplier selection standards.

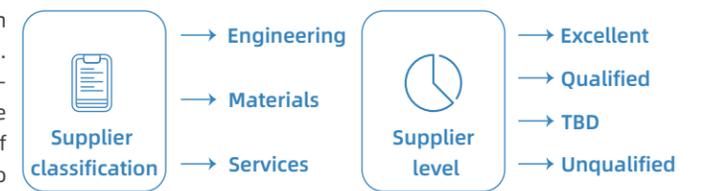
### Procurement Management System

For the sustainability and the standardization of the procurement process, the Company has formulated a procurement management system and established a digital procurement platform in order to clarify procurement responsibilities. We enhance the supervision and management of the procurement process of materials, engineering projects and services, etc., while controlling the production and operation costs.

Procurement Management System						
Material Code Standards	Procurement Item Classification	Procurement Plan Management	Procurement Implementation Management	Procurement Tracking	Procurement Settlement Management	Procurement Process Supervision
Standardization of material codes and names	Procurement items classification: raw and auxiliary materials, production equipment, packaging materials, purchased products, spare parts, office equipment and office supplies, engineering products, services, labor and welfare, etc	Daily demand, temporary demand, engineering demand, labor service demand, office demand, etc	Procurement activities not included in the scope of bid and special procurement are unified in the digital procurement platform for sourcing and price comparison	Procurement managers follow up on suppliers' delivery progress in accordance with the procurement contract or agreement and demand time	All procurement operations should obtain legal and valid special invoices, and promptly handle the accounting procedures	Inspection and Audit Department needs to monitor and check the procurement process
Avoid misdescription of material specifications, models and other information, which may lead to purchasing errors	Easy to categorize the nature of procurement items	Scientific demand planning enables better procurement negotiations and allows suppliers to supply in an orderly manner	The digital procurement platform facilitates information sharing between the purchaser and the supplier	Avoid supply delays affecting normal operations	Easy to register in the accounts	Enhance the standardized management of procurement procedures

## Supplier Evaluation System

Qing Shui Yuan has established a supplier evaluation system, which is used to annually evaluate all suppliers. The evaluation includes, but is not limited to, the qualification certificate, the price of the products supplied, the settlement method (advance capacity), the timeliness of delivery, product quality, service situation etc. We also do the classification and grading management for suppliers.



For supplier evaluation, Qing Shui Yuan also includes the supplier social responsibility in the assessment, as an important part of supplier sustainability assessment. We mainly focus on the supplier's integrity and employee human rights protection. The supplier evaluation system has achieved the goal of procurement cost reduction while monitoring suppliers to improve service quality.

During the reporting period, the Company evaluated 488 suppliers, including 184 excellent suppliers, 292 qualified suppliers, 11 quality-pending suppliers and 1 unqualified supplier.

## Product Quality Control

Qing Shui Yuan always insists on providing customers with environment-friendly and resource-saving high-quality products. The Company continuously optimizes its quality management model, actively obtains safety certificates for water treatment chemical products, and provides a guarantee for the safe operation of the product chain from the perspective of R&D, procurement, quality inspection and after-sales.

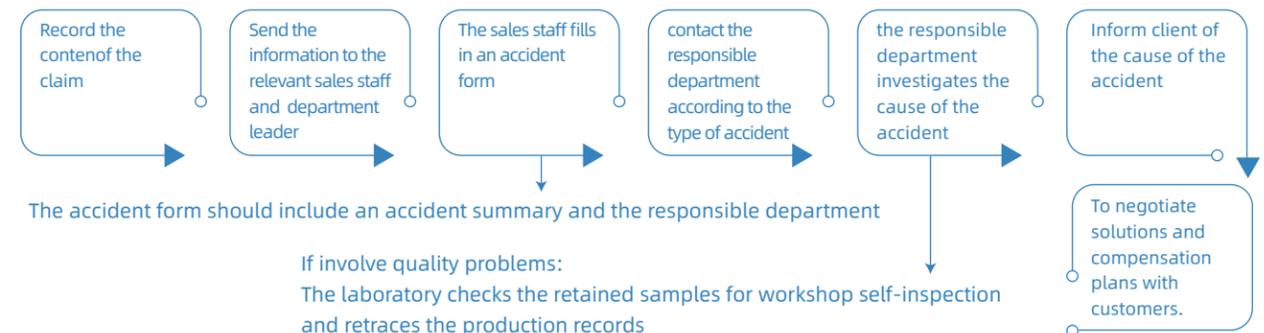
### Product Quality Control System

The Company has established a complete quality management system. It applied to the whole process of product development, raw material procurement and product production. The Company has passed ISO9001 quality management system certification, and the main water treatment agent products have obtained NSF certification and EU REACH certification registration. In the research and development process, the Company strictly regulates the establishment, implementation, verification, review and confirmation of product development. In the procurement process, the Company insists on using high-quality raw materials and strictly controls the quality of raw materials. In the production process, the Company has been improving the quality and stability of its products by improving the level of automated production of water treatment agents.



### Product Recall System

The Company is always concerned about the health and safety of customers and has established a product recall procedure. When customers give feedback about product problems which endanger health and safety, the products will be recalled in time and inspected according to the problems proposed by customers. The Company will organize technical personnel to improve the process where the problem occurred and develop a prevention plan. At the same time, the entire production process will be checked purposefully to prevent the recurrence of similar problems.



## Customer Orientation

Qing Shui Yuan takes customer demands as the guide and insists on providing comprehensive services to customers while attaching great importance to customer satisfaction with the services. We are committed to bringing superior quality products and services to our customers.

### Customer Service System

Qing Shui Yuan focuses on brand building and continuously improving product quality, taking reputation of brand and product quality as an important way to develop market and promote enterprise development. The timeliness and stability of the Company's supply to downstream customers has earned the Company the trust of domestic and foreign customers. We have established long-term and stable customer relationships with a number of internationally well-known companies, which also lay the customer foundation for the Company's future sustainable development.

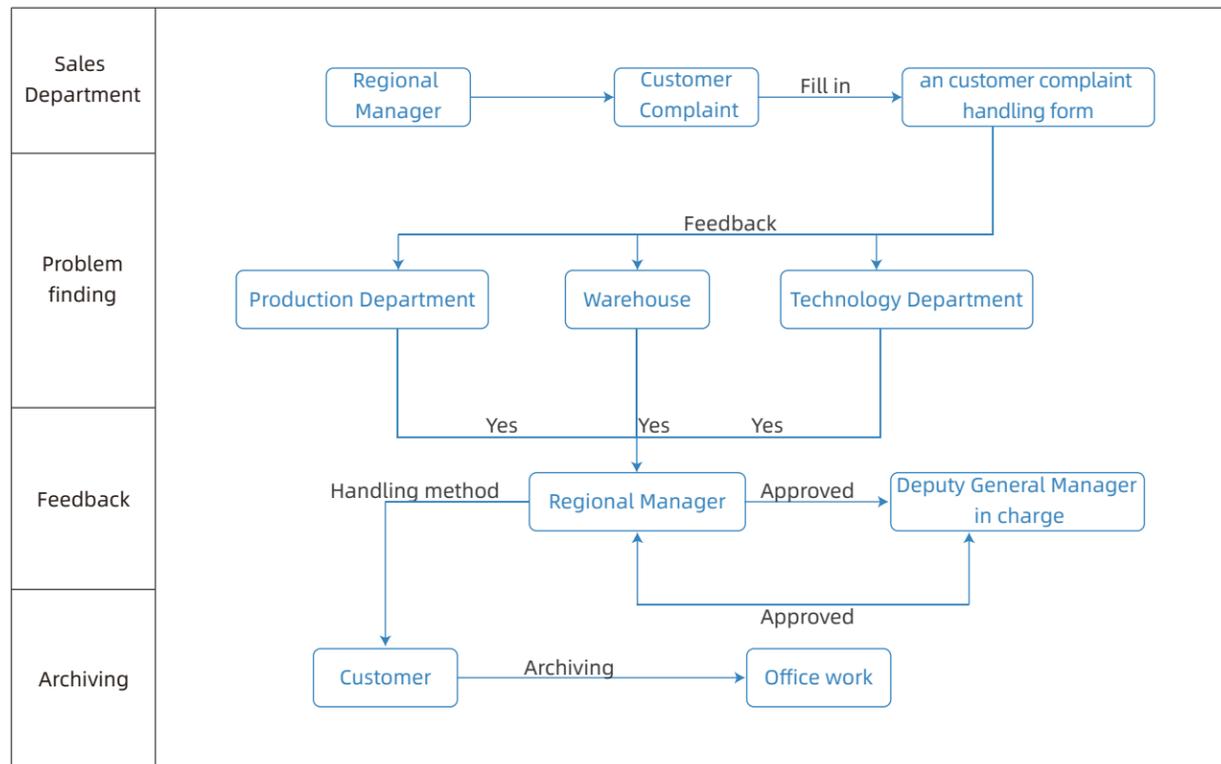
Qing Shui Yuan has systematized and standardized the management of customer service by formulating the "Customer Service System" to regulate the service of each post in the sales process and strictly control the pre-sale and post-sale gates of the Company's products.

The Company has a perfect customer communication mechanism, through telephone, e-mail and other communication channels and methods to ensure the timeliness and effectiveness of communication and feedback. We solve customer problems and meet customer needs in a timely manner.

### Customer Complaint Mechanism

The Company has established a customer complaint management process to achieve full tracking and timely feedback to ensure the customer experience

customer complaint flow chart



## Customer Satisfaction

In 2022, Qing Shui Yuan distributed a total of 130 customer satisfaction questionnaires and collected 101 of them, with a comprehensive recovery rate of 77.69% and an average customer satisfaction rate of 98.70%.

	Number of Questionnaires Distributed	Collection Rate	Customer Satisfaction
Class-A customers	9	77.80%	100%
Class-B customers	16	81.30%	98.30%
Class-C customers	48	81.30%	98.20%
Class-D customers	57	98.30%	98.30%

Through customer satisfaction survey, the Company analyzed various customer dissatisfaction items roll by roll and proposed solutions to put the purpose of improving customer service experience into practice.

### Case: Promoting reform for gradual optimization

Comments and feedback from the satisfaction survey

Customer Opinion	Company Feedback
The design of the packaging appearance should be enhanced, and there is damage to the chemical packaging drums during long-distance transportation.	The Company immediately gave feedback to the transporter, while strengthening the protection of the product appearance.
Customers are dissatisfied with the Company's image evaluation due to less communication with other parties	The Company will improve customer communication and invite customers to make site visits so that they can have a comprehensive understanding of the Company.
Supply is not delivered on time.	The Company will change the scale of periodic stocking, reasonably increase inventory, and maximize transportation efficiency to ensure timely meet customer demand.

## Customer Information Security

Qing Shui Yuan enhances the management of each information system to ensure the security of the information system. We have established the information security system according to the Law of the People's Republic of China on Keeping Confidentiality of State Secrets, Interim Provisions on Computer Information System Management, Regulations on Confidentiality Management of Computer Information Systems for International Networking and other relevant regulations from the information management department. The system is divided into eight levels: computer equipment security, electronic data file security, software security management, information system data security, password security management, network security management mechanism, information system security and confidentiality mechanism and information security response mechanism. The system protects the information security of customers and guarantees the privacy of customer information in many different ways.



# Innovative Development

The Company insists on independent innovation as the first driving force of the enterprise. We raise investment in innovation, build technology platform, introduce outstanding talents, stimulate research vitality and pay attention to intellectual property protection. The Company follows the inevitable trend of digital development, runs through the path of product informatization, and creates an intelligent cloud management platform.

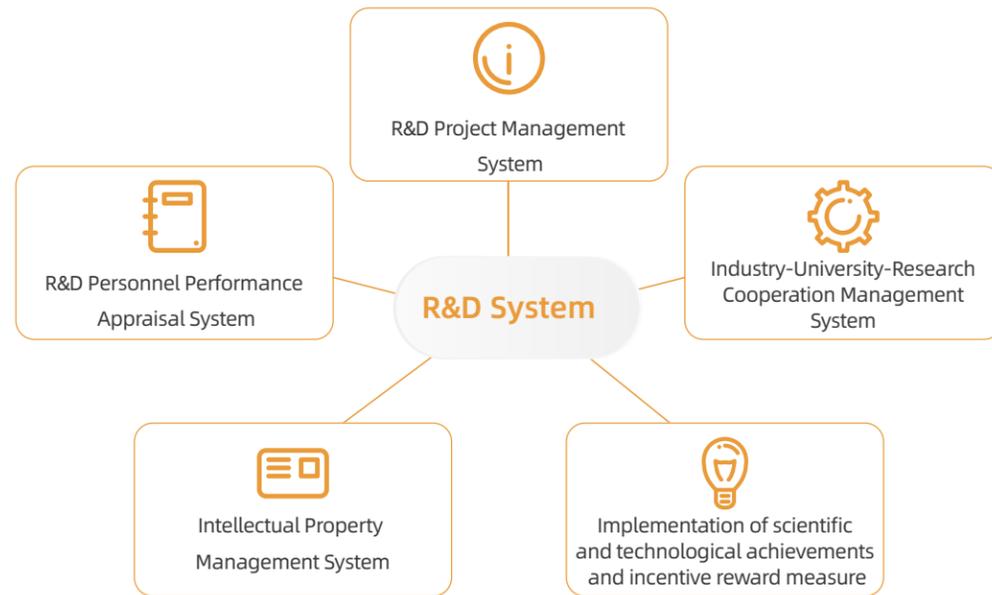
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## R&D System

Qing Shui Yuan focuses on the construction of an innovative R&D system and has standardized the management of innovative project research. We strive to form an excellent R&D team and create products that lead the industry.

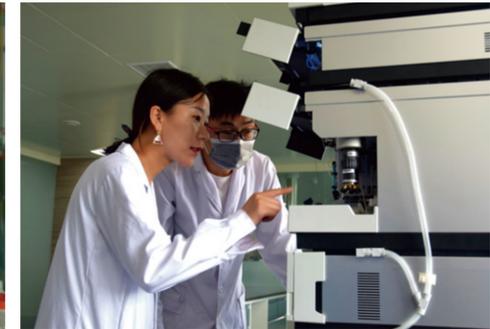


## R&D Team

The Company pays attention to the recruitment and training of R&D team, with 112 R&D staff. By cooperating with the Ecological Environment Research Center of the Chinese Academy of Sciences, the Chinese Academy of Environmental Sciences and other domestic first-class research institutes and universities such as Dalian University of Technology and Tongji University, a R&D team with rich experience and creativity has been formed. Qing Shui Yuan has established a scientific R & D management system, motivated R & D staff through performance assessment, and focused on the conversion of scientific and technological achievements to encourage innovation and creativity.

		Below 30	30 ~40	Above 40	Total number of team members
 R&D Team	2022	24	66	22	112
	2021	17	71	29	117

Henan Postdoctoral Innovation Base	In 2019, Qing Shui Yuan planned to build a postdoctoral innovation base
	In 2020, Qing Shui Yuan filed a project application
	In October 2021, Qing Shui Yuan established a postdoctoral innovation base with the approval of the Department Human Resources and Social Security of Henan Province according to No. [2021] 92 document



Qing Shui Yuan and the Chinese Academy of Sciences Ecological Environment Research Center cooperate to develop



Henan International Joint Laboratory of Intelligent Water Treatment System

### Case: R&D training

In September 2022, Qing Shui Yuan Chemical Class was officially launched, and a total of 57 employees were trained and studied by the Company. Classes are held on Mondays, Wednesdays and Saturdays, with courses including *Fundamentals of Industrial Chemistry*, *Chemical Safety Technolgy*, *Chemical Unit Operation Technology*, *New Yugong Core Literacy*, *Chemical Drawing and CAD*, *Introduction to Mao Zedong Thought and Socialist System with Chinese Characteristics*, etc. The purpose of this program is to create a high quality, multi-level talent team, establish a sustainable talent team system, and provide solid talent support for the Company's technology development.

## ◆ Intellectual Property Management

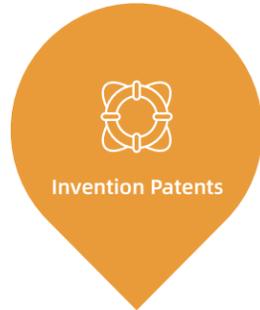
The Company takes the protection of intellectual property rights seriously and has formulated the relevant policies and work plans for the management of intellectual property rights of the Company. We have formulated the "Intellectual Property Management System", set up a special intellectual property management department and formed an effective working procedure. The Company enhances the popularization of laws and regulations related to intellectual property protection. For the personnel of the research project team, they are required to sign contracts with clear provisions on intellectual property rights to avoid the information recipient from disclosing the information within the scope of intellectual property protection, and they need to bear the relevant responsibilities in case of breach of contract.

## ◆ R&D Achievements

By increasing R&D efforts, expanding the types and applications of water treatment agent products, strengthening the innovation capacity of wastewater treatment projects, and focusing on the development of new green and environmentally friendly water treatment agent products and wastewater treatment projects, the Company is efficiently promoting the construction of new projects. Qing Shui Yuan will invest CNY 23,627,600 in research and development in 2022.

## ◆ Patent Technology

As of December 31, 2022, the Company had applied for 20 invention patents, 84 utility model patents and 3 design patents. Among them, 3 invention patents and 3 utility model patents have been issued with authorization letters, and most of them have been put into industrialized production.

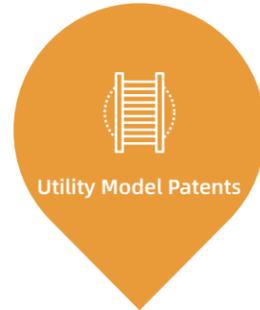


Invention Patents

A kind of preparation method of green chelating agent methyl glycine diacetic acid sodium salt

Water-soluble quaternary fluorescent monomers, fluorescent polymers, and procedures for their preparation

A kind of preparation method of green chelating agent glutamic acid diacetic acid sodium salt



Utility Model Patents

A pump suction device with air vortex and filter function

A single component membrane water treatment system

An intelligent control coagulant dosing device

Intelligent transformation is the future market trend. As of December 31, 2022, the Company has applied for 16 software copyrights. Among them, the intelligent solution of industrial water system of Water Cloud Trace, which is the key development of the Company, has 8 software copyrights.



### ◆ Projects under research

The Company insists on researching more environmentally friendly and efficient water treatment chemicals. We are committed to the development of the environmental protection industry chain. In 2022, the Company's ongoing research projects continue to advance as follows:

Major R&D Project Name	Project Objective	Project Progress	Expected Goal	Expected Influence on the Future Development of the Company
Research on intelligent coking wastewater treatment process development system	This project utilizes ultrasonic anaerobic biological treatment technology and multi-stage non-homogeneous catalytic ozone oxidation technology to carry out research on coking wastewater treatment process system and big data intelligent system.	We have completed the construction of the experimental platform for low-intensity ultrasonic bio-concentration, low-intensity ultrasonic anaerobic co-metabolism and non-homogeneous catalytic oxidation. We derived the optimal conditions for the application of low-intensity ultrasound in activated sludge treatment, and summarized a large amount of theoretical data.	1. Effectively solving the key problems of high concentration phenol/ammonia coupling with strong biological inhibition and low microbial metabolic rate and long hydraulic retention time. 2. Establishing intelligent development system of coking wastewater treatment process, completing independent design of coking wastewater process, significantly shortening the development time of wastewater treatment process and widening the scope of use of existing process	This project is of great significance to the development of new economical and efficient coking wastewater treatment process and the realization of independent design of coking wastewater treatment process.
Research on a polyacrylic acid dirt dispersion agent polymerization method	This project develops a new polymerization initiation system to replace the existing polymer reaction system, using milder polymerization conditions to prepare a high effective content, good stability and excellent performance of polyacrylic acid scale inhibitor dispersant.	Some of the products have completed R&D and industrialized trial production for marketing stage.	By the innovative research on polymerization initiation system, the effective content of polyacrylic acid scale inhibitor dispersant is higher, the molecular weight distribution is controlled, and the product stability is better.	The project has greatly improved the quality of the polymer products and increased the market share of the products.
High-salt organic wastewater evaporation technology and device R&D project	This project aims to develop technology and equipment for complex wastewater rich in salt and organic matter, so as to boost the Company's core technology to enhance its core competitiveness	The project has been completed with good results	Complete equipment fabrication and practice to verify the feasibility of the technology	Our core technology is gradually formed in the field of industrial complex wastewater treatment. This concept has core competitiveness in the market competition
Reverse osmosis scale inhibitor for paper mill effluent	The project develops phosphorus-free reverse osmosis scale inhibitor products suitable for RO for paper mill wastewater.	The project has been basically completed and is currently being promoted at several customer sites.	The reverse osmosis membrane operates continuously for more than 3 months under normal conditions. No significant decrease in water production rate and desalination rate of the equipment, and less than 10% increase in feed water pressure.	Increasing product sales and enhancing market competitiveness
Research on using an integrated water purifier + fiber filter for the pretreatment of reclaimed water in chemical plants	This project proposes to use "integrated water purifier + fiber filter" as a combined process equipment to study its application effect in the pretreatment of chemical plant water reuse system. To find out the pretreatment process and equipment with good treatment effect, high pollution resistant load, low self-water consumption, low backwashing water consumption, stable operation and easy maintenance.	The team studied the internal structure of integrated water purifiers and fiber filters currently on the market, analyzed their advantages and disadvantages for pretreatment of water reuse in chemical plants, as well as the improvement scheme, and conducted pilot tests in the operation plant. The steel pilot plant has been pilot tested and the effect has reached the purpose of the pilot test.	1. Integrated water purifier has achieved good operation effect: the water quality of the effluent meets the standard, the device sludge discharge is smooth and not easy to block, the equipment backwashing effect is good, the automation operation is stable and the fault maintenance is convenient; 2. Fiber filter has achieved good operation effect: the water quality is at standard, the filter backwashing effect is good, the automatic operation is stable, and the fault maintenance is convenient; 3. Integrated water purifier and fiber filter are used for treating water in chemical plants, and they have achieved good operation effect: the water quality of the output is up to standard, the system runs stably, and according to the water quality, the best working condition is debugged and the key operation parameters data is recorded.	The improved combination process can be used for modular production according to the amount of water, and the process package can be replicated, i.e., it can help to shorten the project duration and reduce the labor cost, thus cutting down the investment cost.

Major R&D Project Name	Project Objective	Project Progress	Expected Goal	Expected Influence on the Future Development of the Company
Shuiyunzong Industrial Internet Platform	Used for online monitoring of the industrial water treatment system, intelligent dosing, network transmission, abnormality warning and remote control. It can monitor the operation status of the water treatment system and implement intelligent management at any time, and innovate the traditional water treatment service mode, too.	<ol style="list-style-type: none"> <li>At the platform level, the Shuiyunzong Industrial Internet Platform, which meets the industrial Internet construction standards, has been initially improved and put into application in terms of the layer, IaaS layer, industrial PaaS and SaaS layer.</li> <li>At the intelligent terminal equipment level, the Company has developed more than 10 types of intelligent terminal water treatment equipment for different customer needs and water quality index testing requirements. The Company has the core manufacturing technology of online monitoring sensors for the industrial circulating water system, and more than 10 types of water quality monitoring sensors applied in the industrial circulating water system.</li> <li>It has passed the acceptance inspection by the Provincial Department of Industry and Information Technology. In 2022, it was identified as an industrial Internet platform of Henan Province.</li> </ol>	Improving the existing water quality monitoring sensors and intelligent terminal equipment. Strengthening the construction of the Shuiyunzong Industrial Internet Platform, and improving the platform's autonomy and intelligence. Performing intelligent operation and maintenance, and raising the efficiency of operation and maintenance. Realizing intelligent management over the entire industrial water system, promoting the change of the entire industrial water treatment industry model, and also promoting the digital transformation of more industries and driving the intellectualization of more industries.	Helps to transform the Company from a traditional water treatment service provider to a digital, intelligent service provider, so as to develop a large customer base and bring about considerable business prospects. Helps to establish the Company's leading position in the field of intelligent water treatment. Assists the Company in grasping the right speak for the formulation of intelligent water treatment standards and promoting the intelligent transformation of the entire industry.
Mini Cloud Tracer Device Development	We have designed and developed a small circulating water online monitoring equipment, with online monitoring of water quality indicators and automatic dosing of water treatment chemicals, and the data can be transmitted remotely.	The current equipment has started to produce products and has been successfully pilot tested at the site. It has been applied in Jiaozuo, Luoyang, Zhengzhou and other sites with good results.	We have developed and produced a small intelligent water treatment online testing equipment with low production cost and easy on-site installation for online monitoring, automatic dosing, abnormal alarm and remote transmission.	Small circulating water systems are widespread, and these current circulating water systems have major problems or do not have water treatment. The equipment is small, easy to installed and other advantages, it can be widely used in these systems to achieve a large market demand.
Three-parameter device performance improvement	The project is mainly to improve the accuracy of the three-parameter equipment testing data.	We have established equipment production standards to ensure qualified product production, background processing of testing data, and repeat testing in case of abnormal testing to avoid the probability of abnormal data. Optimize the testing program, achieve quality improvement and cost reduction, and the technically improved equipment has been commercially used in dozens of sites and received good feedback.	After technological improvement equipment monitoring data abnormal fluctuation value is less than 20%. Relative deviation: chloride ion <5%, hardness <5%, alkalinity <5%.	The three-parameter equipment detects the important indexes in circulating water treatment and adjusts the water treatment plan timely according to the detection data. Avoid the problems caused by manual testing.
Intelligent dynamic simulation device improvement	This project is designed to optimize and adjust the parameters of the intelligent dynamic simulation device to enhance its stability through technical improvement	The project passed the comprehensive performance test and technical improvement, completed the acceptance standard of dynamic mold production and standardized equipment production. The customer has tried the equipment on site, and the customer has given high evaluation after application. Based on the application of the site to carry out part of the equipment design optimization.	By the technical improvement and renovation of the intelligent dynamic simulation equipment, the equipment is reliable and stable. Through customer applications, valuable comments are made to further improve the equipment and lay the foundation for equipment promotion.	The development and application of intelligent dynamic simulation test device is the deep integration of artificial intelligence technology and Internet technology applied to the field of dynamic simulation test. It has changed the problems of traditional dynamic simulation test which is time-consuming, frequent operation, labor-intensive, inaccurate data and high cost.
Development of a high chloride ion detection device for desulfurization wastewater	Designed and developed a high chloride ion online water quality testing equipment.	The current equipment principle prototype has completed testing and is in the field for trial stage. The main testing unit of the equipment is completed, and the sampling pre-processing equipment is developed.	High chloride ion detection equipment detection accuracy deviation of less than 10%	The control and detection of chloride ions in power plant desulfurization wastewater is a very important indicator, and the development and production of this equipment has a large market prospect..
Single-parameter online testing equipment development	Designed and developed a online water quality testing equipment that can detect water calcium ion alone, alkalinity alone and chloride ion alone.e.	The current equipment prototype has been completed and passed the test, the equipment performance is stable and the data accuracy is the same as the three-parameter equipment.	The abnormal fluctuation value of the device test data is less than 20%. Relative deviation: chloride ion <5%, hardness <5%, alkalinity <5%.	The equipment detects important indicators of concern in circulating water treatment, and adjusts the water treatment plan according to the detection data in time to avoid the problems caused by manual testing. The development of single-parameter equipment has broadened the choice of customers.

# Appendices

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## Key Emission Institution

Industry emission standards and pollutant emissions involved in production and operation activities

Company or Subsidiary Name	Types of Major Pollutants and Characteristic Pollutants	Names of Major Pollutants and Characteristic Pollutants	Emission Type	Number of Emission Outlets	Distribution of Emission Outlets	Emission Concentration/Intensity	Pollutant Emission Standards	Total Emissions	Approved Total Emissions	Excessive Emissions
Jiyuan Qingyu-an Water Treatment Co., Ltd. (Qingyuan Factory)	Waste water	Cadmium and compounds, hydrogen chloride, mercury and compounds, chlorine, lead and compounds, arsenic and compounds	Organized Emission outlets	2	Discharge outlets for phosphorous trichloride tail gas and hydrochloric acid storage tank tail gas; phosphite tail gas discharge outlet	Cadmium and compounds: 0.5mg/Nm <sup>3</sup> ; hydrogen chloride 10mg/Nm <sup>3</sup> ; mercury and compounds: 0.01mg/Nm <sup>3</sup> ; chlorine: 5mg/Nm <sup>3</sup> , lead and compounds: 0.1mg/Nm, arsenic and compounds: 0.5mg/Nm	GB31573-2015 Emission standards of pollutants for inorganic chemical industry GB31573-2015	Not applicable	Not applicable	None
Jiyuan Qingyu-an Water Treatment Co., Ltd. (Qingyuan Factory)	Exhaustgas	VOCs, hydrogen chloride, formaldehyde	Organized Emission outlets	3	Level-6 tail gas discharge outlet on HEDP section; level-10 tail gas discharge outlet on HEDP section; level-9 tail gas discharge outlet on HEDP section	Hydrogen chloride: 100mg/Nm <sup>3</sup> ; VOCs: 120mg/Nm <sup>3</sup> ; formaldehyde 25mg/Nm <sup>3</sup>	GB16297-1996; Comprehensive emission standard for air pollutants GB16297-1996;	Not applicable	Not applicable	None
Jiyuan Qingyu-an Water Treatment Co., Ltd. (Qingyuan Factory)	Waste water	COD, suspended matter, 5-day biochemical oxygen demand, phosphate, animal and vegetable oil, pH value, volatile phenols, ammonia nitrogen (NH <sub>3</sub> -N), anilines, total organic carbon, acrylonitrile	Waste water recycling	1	All wastewater recycling outlet	COD: 50mg/L; hydrogen chloride: 10mg/Nm <sup>3</sup> ; chlorine: 5mg/Nm <sup>3</sup> ; arsenic and compounds: 0.5mg/Nm <sup>3</sup> ; lead and compounds: 0.1mg/Nm <sup>3</sup> ; mercury and compounds: 0.01mg/Nm <sup>3</sup> ; cadmium and compounds: 0.5mg/Nm <sup>3</sup>	DB41/776—2012 Comprehensive wastewater discharge standard GB8978-1996; Discharge standard of water pollutants in the Mangqin River Basin DB41/776—2012	Not applicable	Not applicable	None
Jiyuan Qingyu-an Water Treatment Co., Ltd. (Huling Factory)	Exhaustgas	VOCs, hydrogen chloride, formaldehyde	Organized Emission outlets	1	Methylene device:	Hydrogen chloride: 100mg/Nm <sup>3</sup> ; VOCs: 80mg/Nm <sup>3</sup> ; formaldehyde: 25mg/Nm <sup>3</sup>	GB16297-1996; Integrated emission standard of air pollutants GB16297-1996;	Not applicable	Not applicable	None
Jiyuan Qingyu-an Water Treatment Co., Ltd. (Huling Factory)	Exhaustgas	VOCs, methanol	Organized Emission outlets	1	PBTC A device	Methanol: 190mg/Nm <sup>3</sup> ; VOCs: 80mg/Nm <sup>3</sup> ;	GB16297-1996; Integrated emission standard of air pollutants GB16297-1996;	Not applicable	Not applicable	None
Jiyuan Qingyu-an Water Treatment Co., Ltd. (Huling Factory)	Waste water	Hydrogen chloride, arsenic and compounds, lead and compounds, mercury and compounds, cadmium and compounds, VOCs	Organized Emission outlets	1	HEDP device	Hydrogen chloride: 10mg/Nm <sup>3</sup> ; arsenic and compounds: 0.5mg/Nm <sup>3</sup> ; lead and compounds: 0.1mg/Nm <sup>3</sup> ; mercury and compounds: 0.01mg/Nm <sup>3</sup> ; cadmium and compounds: 0.5mg/Nm <sup>3</sup> ; VOCs: 80mg/Nm <sup>3</sup>	Emission standards of pollutants for inorganic chemical industry GB 31573-2015; Comprehensive emission standard for air pollutants GB16297-1996	Not applicable	Not applicable	None
Jiyuan Qingyu-an Water Treatment Co., Ltd. (Huling Factory)	Waste water	Hydrogen chloride, arsenic and compounds, lead and compounds, mercury and compounds, cadmium and compounds, VOCs	Organized Emission outlets	1	Hydrochloric acid device	Hydrogen chloride: 10mg/Nm <sup>3</sup> ; arsenic and compounds: 0.5mg/Nm <sup>3</sup> ; lead and compounds: 0.1mg/Nm <sup>3</sup> ; mercury and compounds: 0.01mg/Nm <sup>3</sup> ; cadmium and compounds: 0.5mg/Nm <sup>3</sup> ;	Emission standards of pollutants for inorganic chemical industry GB 31573-2015;	Not applicable	Not applicable	None

Company or Subsidiary Name	Types of Major Pollutants and Characteristic Pollutants	Names of Major Pollutants and Characteristic Pollutants	Emission Type	Number of Emission Outlets	Distribution of Emission Outlets	Emission Concentration/Intensity	Pollutant Emission Standards	Total Emissions	Approved Total Emissions	Excessive Emissions
Jiyuan Qingyu-an Water Treatment Co., Ltd. (Huling Factory)	Wastewater	Hydrogen chloride, arsenic and compounds, lead and compounds, mercury and compounds, cadmium and compounds, chlorine	Organized Emission outlets	1	Phosphorus trichloride device	Hydrogen chloride: 10mg/Nm <sup>3</sup> ; arsenic and compounds: 0.5mg/Nm <sup>3</sup> ; lead and compounds: 0.1mg/Nm <sup>3</sup> ; mercury and compounds: 0.01mg/Nm <sup>3</sup> ; cadmium and compounds: 0.5mg/Nm <sup>3</sup> ; chlorine: 5mg/Nm <sup>3</sup> ;	Emission standards of pollutants for inorganic chemical industry GB 31573-2015;	Not applicable	Not applicable	None
Jiyuan Qingyu-an Water Treatment Co., Ltd. (Huling Factory)	Tail gas	VOCs, hydrogen chloride, formaldehyde, methanol, chlorobenzenes	Organized Emission outlets	1	Raw material tank yard	50mg/Nm <sup>3</sup> Hydrogen chloride: 30mg/Nm <sup>3</sup> ; VOCs: 80mg/Nm <sup>3</sup> ; formaldehyde: 5mg/Nm <sup>3</sup> ; methanol: 50mg/Nm <sup>3</sup> ; chlorobenzenes: 50mg/Nm <sup>3</sup>	Emission standard of pollutants for petroleum chemistry industry GB 31571-2015	Not applicable	Not applicable	None
Jiyuan Qingyu-an Water Treatment Co., Ltd. (Huling Factory)	Tail gas	VOCs, hydrogen chloride, formaldehyde	Organized Emission outlets	1	Solid device	Hydrogen chloride: 100mg/Nm <sup>3</sup> ; VOCs: 80mg/Nm <sup>3</sup> ; formaldehyde: 25mg/Nm <sup>3</sup> ;	Comprehensive emission standard for air pollutants GB16297-1996	Not applicable	Not applicable	None
Jiyuan Qingyu-an Water Treatment Co., Ltd. (Huling Factory)	Tail gas	VOCs	Organized Emission outlets	1	Hazardous waste room	VOCs: 80mg/Nm <sup>3</sup> ;	Comprehensive emission standard for air pollutants GB16297-1996	Not applicable	Not applicable	None
Jiyuan Qingyu-an Water Treatment Co., Ltd.	Wastewater	Total phosphorus (as P), total zinc, fluoride (as F <sup>-</sup> ), anilines, total copper, 5-day biochemical oxygen demand, total nitrogen (as N), cyanide, volatile phenols, phosphate, COD, sulfide, adsorbable organic halides, adsorbable organic halides, ammonia nitrogen (NH <sub>3</sub> -N), suspended matter, acrylonitrile, petroleum, animal and vegetable oils, pH value, total organic carbon, total vanadium	Organized Emission outlets	1	Wastewater Emission outlet	Total phosphorus (as P): 5mg/L; total zinc: 5.0mg/L; fluoride (as F <sup>-</sup> ): 10mg/L; anilines: 2.0mg/L; total copper: 1.0mg/L; 5-day biochemical oxygen demand: 150mg/L; total nitrogen (as N): 50mg/L; cyanide: 0.5mg/L; volatile phenols: 1.0mg/L; phosphate: 5mg/L; COD: 300mg/L; sulfide: 1.0mg/L; adsorbable organic halides: 5.0mg/L; ammonia nitrogen (NH <sub>3</sub> -N): 30mg/L; suspended matter: 150mg/L; acrylonitrile: 5.0mg/L; petroleum: 20mg/L; animal and vegetable oil: 100mg/L; pH value: 6-9; total organic carbon: 30mg/L; total vanadium: 1.0mg/L;	Indirect emission standard water pollutants for chemical industry DB41/ 1135—2016; Comprehensive wastewater discharge standard GB8978-1996;	Not applicable	Not applicable	None
Luohetongsheng Songjiang Water Co., Ltd.	Wastewater	COD; NH <sub>3</sub> -N	Direct Discharge after qualified treatment	1 Emission outlet	33°38'17". The Emission outlet is located in the north of the plant, on the right bank of Liuzhi River, at 113°59'5"E and 33°38'17"N.	COD≤50mg/L; NH <sub>3</sub> -N≤5mg/L	Emission standard of pollutants for municipal wastewater treatment plant (GB18918-2002) First-class Level-A discharge standard	According to the statistical data of 2017: COD = 209.8t/a; NH <sub>3</sub> -N = 11.4t/a;	COD≤547.5t/a; NH <sub>3</sub> -N≤5.475t/a	None

## Feedback Table

Thank you for taking time to read *2022 Environmental, Social and Governance (ESG) Report of Henan Qing Shui Yuan Technology Co., Ltd.*. We look forward to hearing your valuable advice and suggestions on our ESG work in sustainable development management. Your suggestions and comments are an important for us to continuously improve our ESG efforts and enhance sustainable development management. We would like to sincerely invite you to help us filling the feedback form and give us your feedback in the following way. Thank you again for your full support of our ESG efforts!

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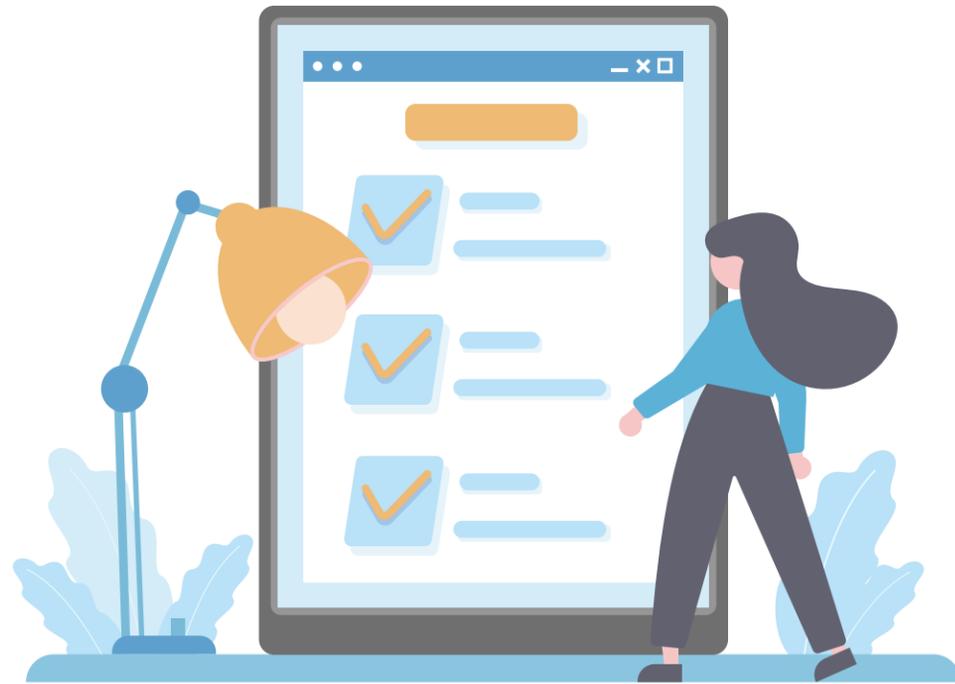
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For Qing Shui Yuan, you are:

- a staff member  
  a customer  
  a shareholder or investor  
  a supplier  
  government department or regulator  
 a media agency/industry association  
  other (please specify)

1. Your overall opinion on this year's ESG Report:

- Very good  
  Good  
  So-so  
  Poor  
  Very poor

2. Do you think the information disclosed in the Report is accurate, clear or complete?

- Very good  
  Good  
  So-so  
  Poor  
  Very poor

3. Do you think the Report is readable?

- Very good  
  Good  
  So-so  
  Poor  
  Very poor

4. Do you think the Report can fully reflect the Company's significant influence on the economy, society and environment?

- Very good  
  Good  
  So-so  
  Poor  
  Very poor

5. What is your opinion of the logical thinking, structural arrangement, and layout of this report?

- Very good  
  Good  
  So-so  
  Poor  
  Very poor

6. What topics in this year's ESG Report have caught your attention the most?

7. What other information would you like to get from the Report?

8. Do you have comments or suggestions about our ESG reports or ESG work and sustainability management?

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