



臻于至善 源远流长
CONSUMMATION & SUSTAINABILITY



昆明滇池水务股份有限公司

Kunming Dianchi Water Treatment Co., Ltd.

(A joint stock company incorporated in the People's Republic of China with limited liability)

Stock Code:3768

2018

Environmental, Social and
Governance Report

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1. ABOUT THIS REPORT

Since its inception, Kunming Dianchi Water Treatment Co., Ltd. (hereinafter referred to as “Dianchi Water” or the “Company”) has been adhering to the operational strategy of “prioritizing core business while promoting diversified development”. The Company extended its industrial chain from wastewater treatment to reclaimed water utilization, sludge resource utilization, running water supply, aquatic biotechnology, pharmaceutical production and other related sectors, with operations gradually expanding to atmospheric pollution treatment, soil restoration, clean energy and other “macro-environment protection” areas.

Based on the principles of objectivity, compliance, transparency and adequacy, the Company has prepared this report in accordance with the Environmental, Social and Governance Reporting Guide set out in Appendix 27 of the Rules Governing the Listing of Securities (the “Listing Rules”) of The Stock Exchange of Hong Kong Limited (the “Hong Kong Stock Exchange”). We hope this report would allow investors to better understand the Company’s performance in environmental, social and governance aspects, so as to improve its management system and efforts in promoting sustainable development.

This report focuses on the core businesses of the Company and its subsidiaries. This report covers the period from 1 January 2018 to 31 December 2018 (the “Reporting Period”). After approval from the management, the report was passed by the board of directors on 24 July, 2019.



2. COMPANY PROFILE

Kunming Dianchi Water Treatment Co., Ltd. is a state-owned listed company listed on the Hong Kong Stock Exchange (stock code: 03768.HK). As of 31 December 2018, it had total assets of approximately RMB7.442 billion and net assets of approximately RMB3.901 billion. With over 1,000 employees, the Company has 16 functional departments and 4 first-tier branches, and owns 25 wholly-owned subsidiaries, one controlled subsidiary and 3 jointly-held subsidiaries. Built around the core values of “Thriving through Technology, Talents and Corporate Culture”, the Company is an industry leader in operational management skill and technological innovation capabilities in the PRC and the largest wastewater treatment enterprise in Yunnan Province in terms of capacity with outstanding competitive advantages in brand reputation in the region.

The Company’s business and investments cover waste water treatment, water supply, reclaimed water reuse, water treatment technology research and application, ecological protection and treatment of contaminated water and other water environment-related areas, garbage disposal and sludge resource utilization and other solid waste treatment areas, clean energy, scientific research cooperation and project incubation and other relevant areas. Following the strategy of “prioritizing core business while promoting diversified development”, the Company is actively committed to expanding its geographical coverage in the global market and becoming a leading environmental protection brand in the PRC so as to provide a solid foundation and professional services for environmental protection and treatment, ecological progress and socio-economic development.



2. COMPANY PROFILE

The Company currently operates and manages a total of 64 wastewater treatment facilities with a designed capacity of approximately 2.28 million m³ per day, including 21 water purification plants located at the urban district and lake side in Kunming with a designed capacity of 1.97 million m³ per day, with average treated water quality higher than the National Class I Standard A. The treatment capacity of our plants accounts for approximately 42% of Yunnan Province and 94% of Kunming, making us the most important enterprise in terms of emission reduction of pollutants such as COD (Chemical Oxygen Demand) and NH₃-N in Yunnan Province and Kunming and water supply for scenic rivers in Kunming. The Company operates the only reclaimed water distribution system in Kunming with water quality meeting the PRC Reclaimed Water Quality Standard, the reclaimed water supply output of which has achieved steady growth year by year. For our running water business, we have 6 running water plants in operation or under construction.

The Company proactively embraces and serves the national “Belt and Road” Initiative by actively tapping into relevant policies and expanding investment channels through a variety of PPP and equity partnership models such as TOT (Transfer-Operate-Transfer), TOO (Transfer-Own-Operate), BOT (Build-Operate-Transfer) and BOO (Build-Own-Operate). Leveraging on Hong Kong’s capital market platform and resource advantages, the Company has strived to accelerate the integration of shareholder resources and market resources to enable faster speed of response to business opportunities and improve its asset efficiency. Our geographical coverage has been successfully expanded to Yunnan, Guizhou, Sichuan, Hunan, Anhui, Zhejiang, Jiangsu Provinces in the PRC and Laos in Southeast Asia. The Company has extended its businesses upstream and downstream along the water treatment industry into water resources protection, catchment treatment solution, solid waste disposal and water culture industry by seeking diversified investment opportunities and optimizing investment portfolio to achieve further growth in a synergetic and efficient way.

In view of the new opportunities and challenges in new era, the Company will actively tap into the national ecological environment strategy and grasp the opportunities brought by the development of environmental protection industry. We will strive to strengthen our abilities in fund raising, financing, acquiring projects and attracting talents by coordinating industrial operation and capital operation. Leveraging on Yunnan’s unique geographic advantage and the investment opportunities brought by the “Belt and Road” Initiative, the Company will step up its efforts in expanding market share and business presence, so as to contribute to the environmental protection of the PRC with its expertise and solutions and deliver value to our shareholders, customers and the society with steady and rapid development.



3. SUMMARY IN 2018

(1) BUSINESS SUMMARY

Dianchi Water is a leading municipal wastewater treatment and reclaimed water supply services provider in Yunnan Province, the PRC, a provider of integrated water-related services (including running water supply service) in water industry, and one of the major enterprises under the State's strategic objective for pollution treatment in Dianchi Lake. During the Reporting Period, the utilization rate of our facilities was above the industry average and the volume of wastewater treated maintained a high level. As of 31 December 2018, the average facility utilization rate reached 92.9%.

1. Wastewater Treatment Projects

As of 31 December 2018, Dianchi Water had in operation a total of 33 wastewater treatment plants, of which 14 are in Kunming and 19 are in other parts of China, with a total wastewater treatment capacity of 1,826 thousand m³ per day. In addition, Dianchi Water had a total designed wastewater treatment capacity of 427 thousand m³ per day under its management services facilities. With its technologically advanced facilities, independently developed patents and

strong management skills, the Company has been able to maintain low costs while providing high quality wastewater treatment services. As of 31 December 2018, 92% of our designed wastewater treatment capacity reached the National Class 1 Standard A standard.

2. Reclaimed Water Business

As of 31 December 2018, Dianchi Water had 7 wastewater treatment plants producing reclaimed water, with a total designed daily production capacity of 52,000 m³. The production of its reclaimed water supply business has increased year by year from 2015 to 2018.

3. Running Water Business

As of 31 December 2018, Dianchi Water had 5 running water plants in operation in Yunnan Province, the PRC and 1 running water plant under construction. During the Reporting Period, the annual sales volume of running water was nearly 12.95 million m³ and the running water supply from Dianchi Water had recorded a rapid growth.



(2) BUSINESS DEVELOPMENT

A. On 13 March 2018, the Company signed a cooperation agreement with Wuhua District People's Government of Kunming City, Yunnan Province, with an investment of approximately RMB107 million for the improvement of ecological environment management in Wuhua District. Both parties would jointly study and formulate a three-year action plan for deepening cooperation and promoted implementation of various cooperation projects such as comprehensive improvement of water environment, ecological construction, soil remediation and utilization of sludge resources to further improve environmental protection and ecological construction to support the economic and social development of Wuhua District which would effectively promote the development of Wuhua District in the "13th Five-Year Plan" period to achieve better economic, environmental and social benefits. On 17 August 2018, the Company signed an investment cooperation agreement with the Wuhua District Government of Kunming City on the sewage treatment

project of the Xizhu Taoyuan Pian Area and on the flood storage and flood control construction project of Changchongshan Wuhua Pian Area with an investment of approximately RMB132 million. With the implementation of the cooperation projects, it will effectively promote the comprehensive management of water environment in Kunming, improve the capacity of urban flood control and drainage and the ecological outlook of the city, ensure normal operation of urban infrastructure and further improve the ability of environmental governance and ecological construction to support the economic and social development of Kunming.



3. SUMMARY IN 2018

- B. On 20 July 2018, the Company signed a contract with Yanliang County, Zhaotong City, Yunnan Province and invested RMB150 million to obtain a 20-year franchise for Shuanghe Reservoir in Yanliang County. The reservoir is located in Shuanghe Village, Qiaoshanxiang, Yanliang County, with a total storage capacity of 21.8 million cubic meters, a total pipeline length of 55 kilometers and a designed irrigation area of 52,500 mu. During the period, the Company enjoyed the right to franchise regional water supply services and obtained an agreed water supply service fee, which further extended the Company's water industry to the upstream water resources and constructed a complete industrial chain integrating source water, water supply, running water, sewage treatment and reclaimed water utilization to better protect local and ecological environmental protection and economic green development with comprehensive environmental solutions.
- C. On 12 August 2018, the Company reached a cooperation agreement with the Xundian County Government of Kunming City, Yunnan Province and signed an investment cooperation agreement for the reclaimed water utilization and green upgrading and construction projects of the parks and certain roads with an investment of approximately RMB90 million to carry out reclaimed water utilization and green upgrading and construction for the roads and parks in Xundian County. The projects will help the Company to extend the downstream reclaimed water and green industry chain, deepen market development, promote the Company's integrated development of water source protection, sewage treatment and reclaimed water utilization in Xundian County and also effectively enhance the urban and rural living environment in the service area.



D. On 8 October 2018, the Company invested RMB41.4026 million to acquire 100% equity interest of Liuyang Hongyu Thermal Power Co., Ltd. * (瀏陽市宏宇熱電有限公司) (hereinafter referred to as “**Hongyu Thermal Power**”). Based on the original industrial water supply and industrial wastewater treatment business in Liuyang City, Hunan Province, the Company could further integrate existing project resources, expand the directions of reclaimed water recycling utilization and solid waste coordinated disposal and let industry synergy maximize its benefits and accelerate business expansion in Hunan and Central China. The project company is the only heat supply unit in Liuyang Fireworks Industrial Park which mainly supplies steam and is supplemented by power generation. It belongs to the loop recycling utilization and environmental protection project encouraged by the current industrial policy of Hunan Provincial Environmental Protection Department. The designed annual average power generation capacity is 190 million kwh and the annual average

heat supply capacity is 880,000 tons. After the acquisition of the project, the operation and management level of water supply, sewage treatment and thermal power projects of Liuyang Dayao Fireworks Industrial Park will be further improved and a high-quality environmental protection industrial cluster will be built to promote the healthy and sustainable development of the ecological environment, economy and society in the industrial park and surrounding areas.

E. Under the guidance of the national “Belt and Road” Initiative, the Company has actively tapped into the South Asia and Southeast Asia investment market. On 16 October 2015, Dianchi Water entered into a water supply plant and sewage treatment plant BOT franchise agreement with the government of the Golden Triangle Special Economic Zone in Laos, in a total contract sum of RMB60 million. As of 2018, the sewage plant was basically completed. At present, the government of the Golden Triangle Special Economic Zone in Laos is constructing

* For identification purpose only



3. SUMMARY IN 2018

a sewage plant pipe network and strives to pass the water test run in 2019. The sewage treatment plant built this time will be the first sewage treatment plant in Laos. The Company is expected that the sewage treatment plant will become a landmark project for water treatment in Laos. Through the creation of high-quality projects, the Company fully ensures that the project will effectively realize the eco-environmental benefits to enhance the Company's market competitiveness in Southeast Asia and respond to the national "Belt and Road" Initiative.

- F. In order to further expand overseas financing channels, optimize capital structure and reduce financing costs, Dianchi Water, after listing in Hong Kong, fully explored international capital market resources, actively expanded overseas financing methods and channels and obtained approval of US\$600 million (equivalent) international commercial loan quota from the National Development and Reform Commission in 2018 which was of great significance for increasing the Company's project investment capital reserve, reducing financial costs, enhancing exchange rate risk response capability as well as increasing market activity and influence. The Company will continue to seize industrial development opportunities arising from industry policies, planning and regulatory changes and exert its advantages of sound financial foundation, rich technical reserves and professional talent management team to continuously improve capital operation capabilities and strengthen risk management measures so as to continuously expand the Company's market area and scale and steadily improve efficiency of operational management.

- G. In October 2018, the Company participated in the national "Twelfth Five-Year" Kunming special water project. Two topics under "the key technological research and demonstration of urban water environment improvement in Dianchi Lake basin", namely "the key technological research and demonstration of comprehensive emission reduction and water quality protection in the main city area of Kunming" and "the key technological research and engineering demonstration of Kunming Laoyunliang river water environment improvement" successfully passed the financial acceptance and task acceptance. The "Twelfth Five-Year" Kunming special water project has undergone 8 years of technical research and engineering demonstration to reduce pollution load into the lakes and improve urban water environment quality and water quality of the Dianchi Lake by conducting a series of research and development, application and engineering demonstration of key technologies of water pollution control and water environment control, such as source control, rain and sewage regulation, sewage plant's efficient consumption reduction, safe utilization of reclaimed water and water restoration to effectively support the water environment, water quality assurance and improvement of water quality of Kunming City as well as protection and treatment of Dianchi Lake.





4. YEAR OF 2018

A. ENVIRONMENT

Since its inception, Dianchi Water has been adhering to the operational strategy of “prioritizing core business while promoting diversified development”. The management goals of the Company are “focusing on quality, devoting ourselves to environmental protection, and attaching great importance to occupational health and safety”. The Company not only protects resources and the environment through carrying out green business, but also plants green living idea in the mind of our employees which are carried through in every process of our production and operation. In addition to the compliance with GB/T24001-2016 Environmental Management System Requirements and Guidelines(《环境管理体系要求及使用指南》), GB/T19001-2016 Quality Management System Requirements(《质量管理体系要求》) and GB/T 28001 – 2011 Administrative System Requirements on Occupational Health and Safety(《职业健康安全管理体系要求》), and in light of the characteristics of the Company, Dianchi Water implements and executes its internal standardized management system to reduce the impact of waste, wastewater, exhaust gas, noise on the environment, so as to implement green office practices and promote green development through our own efforts and inconspicuous actions. The Company keeps paying attention to environmental policies and information, and helps its staff comprehend the latest applicable environmental laws and regulations, policies, industry trends and domestic and international best practices in the industry through our internal management procedures. During the Reporting Period, no violation of the environment-related laws and regulations has been found on the Company.



A1. Emissions

Since 2017, the Chinese government listed pollution prevention as one of the three major challenges, which indicates that China’s economy has transformed into high quality development stage with green development as its important symbol from high growth stage.

As an enterprise that engages in pollution control and environmental protection, the Company has always ensured that all aspects of production comply with the corresponding environmental laws, regulations and policies. The Company takes sustainable development as its guiding principle and takes the impact of projects on the environment into consideration in its business decision-making, instead of solely pursuing economic efficiency. The Company pays attention to the harmonious coexistence of human and nature.

4. YEAR OF 2018

Within the scope of the Company's business, all the emissions are processed in strict accordance with the Environmental Protection Law of the PRC (《中華人民共和國環境保護法》), the Discharge Standard of Urban Sewage Treatment Plants (《城鎮污水處理廠排放標準》) (GB18918-2002), the Evaluation Standard of the Operating Performance of Urban Sewage Treatment Plants (《城鎮污水處理廠運營質量評價標準》) (CJJ/T228-2014) and other relevant regulations, and standards.



According to the Action Plan for Preventing and Treatment of Water Pollution (《水污染防治行動計劃》, hereinafter referred to as “10 Regulations on Water Pollution”), China aims to speed up the construction and renovation of urban sewage treatment facilities. The urban sewage treatment facilities in sensitive areas (key lakes, key reservoirs and coastal water collection areas) should reach Class I Standard A standard by the end of 2017. For cities whose build-up areas' water body and water quality do not reach surface water IV standard, their newly-built urban sewage treatment facilities should implement Class I Standard A standard. Our sewage treatment plant in Dianchi Lake Basin has completed upgrading and reconstruction in 2011 and its effluent quality has reached Class I Standard A standard. In particular, the main effluents such as Ammonia nitrogen, Chemical Oxygen Demand (COD), Total phosphorus (T-P) and Total nitrogen (T-N) were 92%, 77%, 72% and 46% lower than the emission limits of national Class I Standard A standard in 2018, respectively.

1. **Exhaust gas**

In the process of transportation and purification of wastewater, odor, methane and other gases generated by water flow turbulence, microbial reaction, sludge treatment and other activities are small in quantity, instead of main emissions of the Company. Due to the small amount of exhaust gas and rapid dissipation, it is difficult to measure and record its emission. Therefore, relevant data such as greenhouse gas emissions have not been disclosed in this report. Although the exhaust gas is not the main emissions of sewage treatment, the Company has continuously optimized treatment technology, perfected production management system and minimized generation of exhaust gas in order to reduce the impact of exhaust gas. The Company strengthens greening arrangement of the plant area through plant greening of isolation around the source of odor gas, sets up biological and ion treatment facilities for treatment of odor to meet the requirements of national standards. The Company also continues to operate sewage treatment facilities to increase the volume of sewage treatment and reduce greenhouse gas emissions.

The Company adopts a quarterly monitoring mode to regularly inspect whether the odor concentration in the plants achieves the standard. The Company delegates a third-party monitoring company to collect air sample in the plants and conduct inspection according to the Three Odor Bags Comparison for the Measure of Odor on the Air Quality (《空氣質量惡臭的測定三點比較式臭袋法》) (GB/T14675-93). The standard of the acceptable odor concentration is 20 (dimensionless quantity). The report of inspection results shows that the odor concentration in the plants is less than 20 (dimensionless quantity) and all achieves the standard.

2. **Wastewater**

The Company's main business is sewage treatment, operation of water supply facilities, reclaimed water utilization, etc. We receive wastewater and reduce the waste in it by way of treatment and purification, in order to minimize the impact of wastewater on the environment and protect the ecological environment of rivers and lakes. In 2018, the chemical oxygen demand reduction of the Company's operating plants was 159,800 tons, the biochemical oxygen demand reduction was 80,900 tons, the suspended solids reduction was 146,000 tons, the total nitrogen reduction was 14,500 tons, the total phosphorus reduction was 3,100 tons and ammonia nitrogen reduction was 13,200 tons.

In 2018, the goals of pollutant reduction involving local governments in respect of Chemical Oxygen Demand and ammonia nitrogen was 135,600 tons and 12,200 tons, respectively, and the Company completed its emission reduction goals, which received recognition and praise from governments at all levels.

Wastewater generated in our operation includes domestic sewage, backwash water of equipment and some water for forestation in our plants. All the wastewater will be transferred to sewage treatment plants collected either by circulation networks or by municipal pipe network and then discharged if they meet discharge standard after treatment. During the Reporting Period, the emission of our Chemical Oxygen Demand (COD) and ammonia nitrogen (NH3-N) was 9,500 tons and 700 tons, respectively.

4. YEAR OF 2018

3. Sludge

In 2018, we produced dry sludge of 65,275 tons in aggregate during the production and operation, and the dry sludge produced in the treatment of every 10,000 tons of wastewater was 0.97 tons. Compared with last year, the amount of dry sludge produced reduced by 3,662 tons.

We strictly adhere to the relevant required standards such as the Technical Regulations of Operation, Maintenance and Safety for Municipal Wastewater Treatment Plant (CJJ60-2011)《城鎮污水處理廠運行、維護及安全技術規程》(CJJ60-2011), the Quality of Sludge for Municipal Wastewater Treatment Plant (GB 24188-2009)《城鎮污水處理廠污泥泥質》(GB 24188-2009) and sludge disposal and landscaping sludge quality for municipal wastewater treatment plant (GB/T23486-2009)《城鎮污水處理廠污泥處置園林綠化用泥質》(GB/T23486-2009) and conduct inspection on the quality of sludge at least semi-annually. Subject to the requirements under the management system on measurement, transportation and disposal, we ensure the sludge treatment process to be in compliance with the national standards and criteria. We are committed to reducing the impact of sludge on the environment. The moisture content of sludge is tested and monitored every day and sludge dewatering process parameters are adjusted in time so that the moisture content of sludge can be steadily reduced and sludge production can be decreased. Meanwhile, reduction in sludge source and sludge resources utilization are simultaneously advanced to construct facilities of reduction in sludge source.

4. Other wastes

The non-hazardous waste generated by the Company in the production and operation process is mainly waste paper. Due to the small amount of production, there is no statistical data on the production amount of non-hazardous waste generated. We reduce generation of non-hazardous waste through source control. In 2018, we purchased 2.11 tons of paper according to schedule. At the same time, we adopted highly efficient and environmentally friendly printing and scanning equipment to promote paperless office and reduce paper use. We encouraged paper to be printed on both sides to reduce paper waste. We have been carrying out various types of recycling and disposal work. For example, confidential waste papers are disposed of by waste treatment plants after destruction or are collected and destroyed by government secrecy departments. Non-confidential waste papers are recycled by specialized agencies.

As for the hazardous waste oil produced during the operation of machinery and equipment and the hazardous waste liquids generated in the process of examination, they are the main sources of hazardous waste. The Company sets up waste holding areas according to the relevant national regulations and the measures to prevent wind dispersal, leakage and runoff, and commissions the qualified third-parties to dispose the waste by batch. The total amount of hazardous waste in 2018 was 8.09 tons which was entrusted to a third party for unified disposal. The Company regulates the maintenance and management of mechanical equipment and inspection instrument and uses equipment oil and inspection liquids on a reasonable basis to avoid production of unnecessary waste oil and waste liquids.

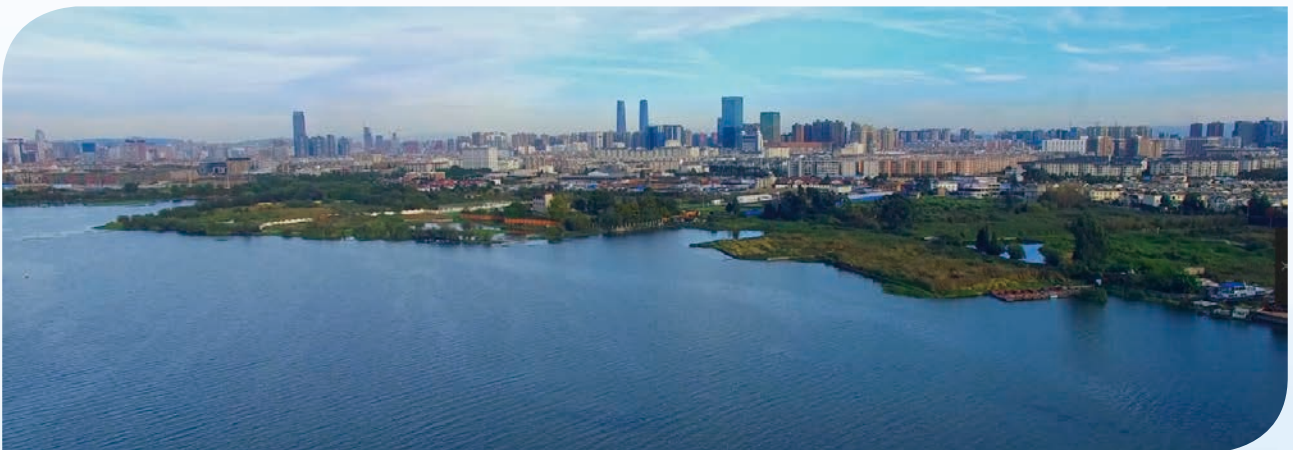
The Company will continuously strengthen maintenance and management of mechanical equipment and inspection instrument, use equipment oil and inspection liquids on a reasonable basis and update mechanical equipment and inspection instrument in a timely manner to keep them in a stable working condition to reduce the amount of waste oil and waste liquids.

A2. Use of Resources

Dianchi Water is a leading wastewater treatment and reclaimed water supply services provider in Yunnan Province, the PRC, a provider of integrated water-related services, including running water supply services, in the water industry and a core enterprise implementing the PRC's strategic goal

to treat pollutants at Dianchi Lake. As “finished products”, our outlet water strictly complies with the relevant national and local standards such as the Discharge Standard of Pollutants for Municipal Wastewater Treatment Plant (《城鎮污水處理廠污染物排放標準》) without using resources such as packing materials.

The Company gives priority to enhance the conservation awareness of our staff, and actively participates in the national annual energy conservation publicity week, and irregularly carries out conservation awareness trainings, conservation knowledge contests and other activities. Secondly, the Company strengthens the propaganda of energy conservation measures so that all the staff can know how to save resources effectively.



4. YEAR OF 2018

The Company advocates the use of video conferencing, and supports long-distance, real-time information exchange and collaborative conferences with multi-media technologies such as real-time audio and video, so as to reduce office costs, improve work efficiency and promote a low-pollution and low-emission green office.

The Company conducts daily monitoring on energy, water and other raw materials and arranges monthly statistical analysis on their consumption. The Company formulated a target evaluation mechanism at the beginning of 2018 and strived to improve its resource utilization rate by adopting strict process supervision.

1. *Energy consumption*

Electricity costs account for a large part of the production costs of water enterprises. Kunming Power Supply Bureau of Yunnan Power Grid Co. is an electric utility company in Kunming which provides power for the Company's operations. In 2018, all the factories operated by the Company consumed electricity of approximately 197,000 thousand kWh in aggregate.

In order to increase energy utilization rate, the Company, supported by the platforms designed especially for water projects under the 12th Five-Year Plan of the State, carried out technological transformation on energy saving and consumption reduction in respect of key devices with large energy consumption and low efficiency, including lifting pump, air blower, aeration system and sludge dewatering system. The average energy consumption rate decreased by 23% from 0.29 kWh/m³ in 2012 to 0.224 kWh/m³ in 2018. Pursuant to the Several Opinions of the Central Committee of the Communist Party of China and the State Council on Further Deepening the Reform of the Electric Power System (Zhong Fa [2015] No. 9) 《中共中央國務院關於進一步深化電力體制改革的若干意見》(中發[2015]9號)), Reply from the NDRC Regarding the Proposal on the Reform of the Transmission and Distribution Electricity Price of Yunnan Power Grid (Fa Gai Jia Ge [2015] No. 2260) 《國家發展改革委關於雲南電網輸配電價改革試點方案的批覆》(發改價格[2015]2260號)), Proposal to Further Deepen



the Reform of the Electric Power System in Yunnan Province (Yun Fa [2016] No.10) (《雲南省進一步深化電力體制改革試點方案》(雲發[2016]10號)), the Company actively conducted power marketization transactions, and gave priority to wind electricity and electricity supplied by hydropower plants, which not only used clean energy, but also reduced its electricity cost. The electricity cost of the Company decreased by approximately RMB20.33 million in 2018.

The Company encourages all its staff to save energy during work hours, planting the concept of energy saving into their minds. The Company also encourages its staff to use electric vehicles fueled by clean energy and public transport.

2. *Water consumption*

In 2018, all the factories operated by the Company consumed running water of approximately 122,000 tons in aggregate and consumed 0.18 tons for the treatment of each 10 thousand tons of wastewater.

The Company requires all the factories (except their canteens and office areas) to use reclaimed water to clean and cool down production equipment if permitted and to water plants, so as to reduce the water consumption in the process of production. The Company put significant efforts on the promotion and popularization of the use of reclaimed water and took water conservation measures, such as adopting induction taps for the wash basins in office areas and washing rooms, to save every drop of water.

The Company has Kunming's only reclaimed water distribution system in the main urban area, and the production of the reclaimed water supply business has increased year by year. The Company's reclaimed water, which has been widely used for landscaping, cleaning roads, industrial production and recharging riverway and waterscape, has approximately 380 company subscribers. As of 31 December 2018, Dianchi Water had 7 wastewater treatment plants producing reclaimed water, with a total designed daily production capacity of 52,000 m³. Customers of Dianchi Water's reclaimed water include commercial and industrial establishments, enterprises and public institutions in Kunming.



4. YEAR OF 2018

The raw water of the Company's water supply business is obtained from water sources designated by local governments. Therefore, we do not have any water sourcing issues.

A3. Environment and Natural Resources

The Company performs environmental impact assessment on all the projects constructed according to the relevant laws and regulations of the PRC. The Company applies "simultaneous design, construction and operation" acceptance check as required after a project has been put into operation to ensure that the construction and operation of the project meet the requirements of the relevant laws, regulations and policies.

For wastewater treatment, the principal business of the Company, with the support of its R&D departments, the Company further lowered our effluent quality indicators and improved its waste removal efficiency by adopting measures such as technical innovation and process and operation optimization. For example, after applying its proprietary technologies, for its Kunming No. 1 Water Purification Plant, which uses the oxidation ditch process, effluent COD (Chemical Oxygen Demand) level decreased by 58%, NH₃-N (Ammonia nitrogen in the form of Water with free ammonia (NH₃) and Ammonia ion (NH₄⁺)) level decreased by 79%, TN (Total nitrogen) level decreased by 36%, TP (Total phosphorus) level decreased by 63% and BOD (Biochemical Oxygen Demand) level decreased by 46% and energy consumption decreased by 10% from 2012 to 2018; for our Kunming No. 2 Water Purification Plant, which uses the A₂/O (Anaerobic – Oxygen – Hypoxia)

process, energy consumption decreased by 44%, effluent COD level decreased by 60%, NH₃-N level decreased by 52%, TN level decreased by 13%, TP level decreased by 43% and BOD level decreased by 44% from 2012 to 2018. As a result of our technological research and development, the overall effluent quality of our facilities in Kunming main city area improved significantly: COD decreased by 53.4%, TP by 51.8%, NH₃-N by 62.0%, TN by 23.3% and BOD by 53.4% from 2012 to 2018, which greatly reduced the pollution load brought by the tail water from wastewater treatment plants to natural water. As of 31 December 2018, 92% of the Company designed wastewater treatment capacity reached the National Class I Standard A standard.

For pollution sources that produce noises during the production process, such as fan equipment, the Company has taken measures such as installing blimps to reduce their impacts on surrounding environment. The Company strictly implements a running time from 8:00 a.m. to 10:00 p.m. for the dehydration machine rooms in its factories close to residential areas while night running is strictly forbidden, so as to minimize the impacts on environment. At the same time, the Company has a well-established testing system to obtain noise level which is used to guide its production.

B. SOCIAL

Dianchi Water strictly abides by applicable laws and regulations on labor protection to guarantee equal employment. We are against any recruitment discrimination concerning age, marital status, race, social status, religious belief, disability, gender, sexual orientation or political background etc.

Dianchi Water and its subsidiaries strictly comply with various national laws and regulations in relation to human resources such as the Labor Law of the People's Republic of China (《中華人民共和國勞動法》), the Labor Contract Law of the People's Republic of China (《中華人民共和國勞動合同法》) and the Social Insurance Law of the People's Republic of China (《中華人民共和國社會保險法》), while the employees are legally entitled to the benefits, remunerations and holidays required by any law. The Company establishes the Measures on Human Resources Management (Trial) (《人力資源管理辦法(試行)》), the Interim Measures for the Administration on Remuneration (《薪酬管理暫行辦法》) and the Interim Measures Governing the Performance Evaluation (《績效考核管理暫行辦法》) to satisfy the arrangement on the recruitment, internal transfer, training, promotion, performance evaluation, and remuneration and benefit of employees, and ensure that no employees are discriminated due to race, age and gender, etc. Besides, the employment of child labor is strictly prohibited and we are against forced labor of any kind, striving to let all the employees work with respect in an equal and harmonious work environment.

Dianchi Water provides training to promote ethical standard and provides complaint channels to allow our staff to make a confidential complaint. Through staff participation, training, reward and other promotion activities of safety awareness, we provide our staff with a healthy and safe working environment. We also provide safety equipment to staff and organize regular physical examinations for our staff in order to prevent them from occupational harm and occupational diseases.

B1. Employment

Dianchi Water is an enterprise which values core technology, aspiration and social responsibility. We attach importance to team construction and employees' virtues and ethics, introduce talents by multiple channels and cultivate talents by using incentive mechanism. We have comprehensive human resources policies covering recruitment, remuneration, staff benefits and performance etc. Dianchi Water strictly abides by applicable laws and regulations on labour protection to guarantee equal employment. The Company is against any recruitment discrimination concerning age, marital status, race, social status, religious belief, disability, gender, sexual orientation or political background etc.

Dianchi Water guarantees equal opportunity and fair treatment for all levels of staff and job applicants in recruitment, internal transfer, training, promotion, performance evaluation and remuneration. Besides, we have the same remuneration structure for both male and female staff.

Recruitment

Dianchi Water carries out open recruitment to encourage fair competition, makes scientific assessment and recruitment on a selective basis. We sign labour contracts with employees in accordance with labour laws and regulations to effectively protect rights and interests of employees.



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Remuneration

Dianchi Water has established a competitive salary system based on the importance of an employee's position and by reference to the operating strategy of the Company and the industry and the region's salary level. Besides, the Company strictly follows relevant national laws and regulations and continuously improves the staff benefits, pays various statutory social insurances according to the laws and regulations and ensures that the staff are entitled to statutory holidays, paid annual leaves, marriage leaves and maternity leaves.

In terms of performance assessment, Dianchi Water has built a result and goal-oriented employee performance appraisal system covering various aspects, such as the performance, ability and attitude etc. of the staff. The promotion and salary review of staff is determined by the result of that appraisal appropriately. In order to create a healthy, diversified and harmonious working environment, all the matters concerning promotion, salary review and post transfer will be considered in an objective way according to staff performance and the business condition of the Company. During the Reporting Period, Dianchi Water was not aware of any material non-compliance cases in relation to human resources laws and regulations.

Retirement Schemes

Dianchi Water participates in a social pension scheme established by the PRC government. The Company is required to contribute a certain percentage of the relevant employees' salaries to the social pension scheme. The Company also sets up a corporate annuity system for purchase of supplementary retirement insurance for our staff. The Company calculates the interest so attributed under the agreed percentage of annuity plan based on staff's service years upon their retirement. Save as disclosed above, Dianchi Water is not required to operate any other retirement benefits for its employees during the year.



Staff Benefits

In addition to statutory employee benefits for full time staff including social security scheme, marriage leave, maternity leave, paternity leave and funeral leave, Dianchi Water offers different fringe benefits, for instance, festival bonus, work allowance under special conditions, labour protection, working meal and commuter allowance. Dianchi Water also purchases accident insurance and provides additional hospitalization medical insurance for our employees.

B2. Health and Safety

Dianchi Water has been certified to quality, environmental and occupational health management system standards in 2013, and sets up a safety management system in accordance with national and local laws and regulations including the Fire Protection Law of the People's Republic of China, the Production Safety Law of the People's Republic of China, the Environmental Protection Law of the People's Republic of China, the Law of the People's Republic of China on the Prevention and Control of Occupational Diseases, the Special Equipment Safety Law and Yunnan Province Safety Production Regulations to establish a safety management system and comprehensively research, deploy and address issues arising in the course of production safety management.

During its operation, every level of employees is held responsible for production safety. The Company conducts safety checks on a regular basis to eliminate any hidden danger at work site promptly and arranges regular lectures on production safety and fire safety work meeting to eliminate occurrence of safety production accidents and provide a safe production environment for all employees.

B3. Development and Training

Dianchi Water focuses on the development strategy of talent development, taking the opportunity of standardization construction and innovating mechanisms to accelerate training of enterprise cadres and personnel. Through the implementation of diversified and systematic training courses of new employee training, professional technical training, due diligence training, backup cadre training, on-site training of subsidiaries and occupational health education, etc., combined with on-the-job training and off-site training, the Company has gradually formed a pattern of educational training in different levels, categories and forms. Relevance and timeliness of training is increasing, and the coverage has significantly expanded.

In terms of new employee training, according to new employees' entry time of the Company, category and job requirements, the Company customizes series of training courses on induction guidance, basic business knowledge of the Company and main business expertise to increase learning and cognition of corporate culture.



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In terms of professional and technical training, the Company focuses on combination of practical and theoretical training. Combined with vocational skills competition in urban drainage industry, the Company promotes learning motivation of employees for professional technology and continuously improves professional and technical knowledge and job operation skills of skilled employees of sewage treatment, reclaimed water treatment, sludge disposal and laboratory monitoring.

In terms of due diligence training, the Company focuses on due diligence training of blind spots of knowledge of employees in market development and customizes due diligence training. Through training of financial and legal risks, operational management risks, regulatory policy guidance, project compliance and legality as well as professional and technical due diligence, the Company comprehensively improves risk prevention and control awareness of market developers and identifies risks in advance when conducting market expansion to try to avoid potential risks.

Training of reserve cadres is taught by the Company's relevant leaders in charge. The system explains the Company's development history, main business, market development, future strategies and corporate culture. The depth and breadth of training are significantly improved.

Regarding on-site training of subsidiaries, according to the training needs of the subsidiaries and combined with the Company's own conditions, a thorough and detailed subsidiary training plan was formulated. To ensure training effect, the Company organized a professional lecturer team to carry out on-site precise training for subsidiaries.

In terms of occupational health education, through organization of activities such as occupational health knowledge lectures, first-aid knowledge training and safety emergency drills, employees' safety awareness will be increased and employees' ability to respond to emergencies will be enhanced. During the Reporting Period, Dianchi Water did not find any violations of laws and regulations in relation to workplace health and safety. Dianchi Water provides training for employees to raise ethical standards and establishes complaint channels to allow employees to file complaints in a confidential manner. The Company provides employees with a healthy and safe working environment through employee engagement, training, rewards and other safety awareness campaigns. In addition, employees were provided with labor insurance products and were regularly organized to conduct checkups annually to prevent employees from occupational hazards and occupational diseases during their ordinary course of work.



After years of construction and accumulation, Dianchi Water continuously increased the strength of training resources and formed a team of part-time lecturers with technical and management skills. Through internal and external links, the Company continuously maintained, improved and enriched the teaching staff and joined China Eco-Environmental Industry and Education Alliance to strengthen exchanges with industry associations and internationally renowned institutions, realize sharing of resources among teachers, experts and high-skilled talents within the alliance to support continuous enhancement of the Company's talent training and training capabilities and ensure better and faster development of Dianchi Water.



B4. Labor Rules
Prohibition of Employing Child Labor or Forced Labor

Dianchi Water strictly follows state and local regulations regarding recruitment and hire of employees and will not hire applicants who fail to meet requirements set out in relevant laws and regulations. In addition, Dianchi Water conducts reference check on employees based on information provided, and those who are found to have treated will not be hired. The Company sticks to a human resource policy that highlights gender equality and ethnic equality and prohibits employment of child labor and forced labor. During the Reporting Period, Dianchi Water did not have any breach of laws and regulations that impose ban on employment of child labor and forced labor.

B5. Supply Chain Management

Principal suppliers of Dianchi Water are power suppliers who provide electricity for its facilities, construction contractors who design and construct its facilities and suppliers of raw materials including wastewater treatment chemicals and other equipment maintenance consumables. Dianchi Water has been working with its major suppliers for a period ranging from one to more than five years.

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During the Reporting Period, Kunming Power Supply Bureau of Yunnan Power Grid Co. was the largest supplier of Dianchi Water. Purchases from the largest supplier amounted to RMB93.0 million, accounting for approximately 10.3% of total purchases. During the Reporting Period, Dianchi Water made RMB370.0 million worth of purchases from its top five suppliers, which accounted for approximately 41.1% of total purchases. Kunming Power Supply Bureau of Yunnan Power Grid Co. is the electric utility company in Kunming providing power for operations of the Company. During the Reporting Period, other major suppliers of Dianchi Water included construction contractors such as Yunnan Gongtai Project Construction Co., Ltd., Jiangxi Geo-Engineering (Group) Corporation, and Yunnan Wenbin Municipal Construction Co., Ltd., all of which were responsible for certain parts of the Company's projects, and raw materials suppliers such as Zunyi Huiheng Environmental Protection Technology Co., Ltd., Shenzhen Pufeisi Environmental Protection Technology Co., Ltd., Kunming Lude Chemicals Co., Ltd., and Kunming Nuoxiao Economic and Trade Co., Ltd., all of which offered wastewater treatment chemicals and other materials for the operation and maintenance of our facilities.

All of the five largest suppliers of Dianchi Water are independent third parties based in China, and none of Directors, their associates or any Shareholder (to the knowledge of Directors, holding more than 5% of the Company's share capital as of 24 July 2019) had any interest in any of the five largest raw material and equipment suppliers during the Reporting Period. Dianchi Water did not enter into any long-term agreements with its major suppliers during the Reporting Period.

Except for utility service providers, the Company has established a centralized procurement policy for selected suppliers. Under such policy, subsidiaries of Dianchi Water are required to solicit bids from different suppliers, and select the suppliers based on price, quality, and timely delivery of products. All supply contracts will be required to be reviewed and approved by the headquarter which will conduct periodic tests to check the quality of the delivered products.

Dianchi Water has sourced raw materials from a few local suppliers in proximity to Kunming in order to benefit from the economies of scale and easy transportation, which allows faster and cheaper delivery of raw materials. Dianchi Water generally pays its suppliers within 10 to 15 days after receiving the delivery of goods, subject to internal review and approval. For its major suppliers, Dianchi Water often settles accounts on a monthly basis; as of 31 December 2018, Dianchi Water did not have any overdue payments.

Dianchi Water has readily available alternative suppliers in the market who offer similar raw materials with terms comparable to its existing suppliers. To mitigate the risks associated with any reliance on its major suppliers, the Company periodically seeks potential alternative suppliers and obtains quotations from such suppliers with the view to keeping in contact with potential suppliers. In addition, in order to secure reliable supply channels and ensure the quality of supplies, in December 2015, Dianchi Water acquired 51% equity interest in Kunming Heertai Environmental Industry & Trade Co. Ltd., a producer of water treatment chemicals, from which Dianchi Water intends to procure a majority of chemicals in the future. As of 31 December 2018, Dianchi Water has not experienced any material difficulty in obtaining any utility services, construction services, or supply of raw materials or equipment for its business operations.

B6. Product Responsibilities

The Company attaches great importance to product quality. With reference to its own conditions, it sets up and implements an internal standardization management system on basis of GB/T24001-2016 Environmental Management System –

General Guidelines on Implementation (GB/T24001-2016《環境管理體系要求及使用指南》), GB/T19001-2016 Quality Management System – Requirements (GB/T19001-2016《質量管理體系要求》) and GB/T28001-2011 Occupational Health and Safety Management System – Requirements (GB/T28001-2011《職業健康安全管理体系要求》).

Each key process in the course of production is under real-time data monitoring, and relevant data is retransferred directly to the central monitoring system of each plant and to the monitoring platform of the Company. Operators strictly execute the Standardized Operation Manual (標準化運行手冊) which has been adapted under the “one manual for one plant” principle that highlights respective conditions of each plant, thus ensuring smooth operation of each process. The Company also monitors inlet and outlet water quality. Daily water quality monitoring is entrusted to environmental monitoring companies with CMA (China Metrology Accreditation) certificates. Every day, water sample is tested in the morning, and test report is issued in the afternoon. Therefore, the Company obtains feedback timely and is able to make production instructions, thus



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ensuring that outlet water meet discharge standards. Furthermore, the Company has an online monitoring system which monitors inlet and outlet water quality for 24 hours per day. Monitoring data are transferred simultaneously to municipal and provincial-level comprehensive monitoring and management platforms on pollution sources. Wastewater after treatment meets requirements as set out in the Discharge Standard of Pollutants for Municipal Wastewater Treatment Plant (《城镇污水处理廠污染物排放標準》(GB18918-2002)).

B7. Anti-corruption Efforts

Dianchi Water attaches great importance to cleansing Party construction and anticorruption efforts in strict observance with relevant laws, regulations and regulatory requirements, and has been always taking zero-tolerance attitude toward preventing and combating corruption by ways of external supervision, improving the internal anti-corruption systems and putting in place the long-acting anti-corruption mechanism within the Company.

1. Perform the Main Responsibility of the Party Committee and promote strict Party governance

In 2018, the Party Committee of the Company focused on the requirements of corporate Party building in the new era and further exerted the core role of the Party Committee. The Company amended and improved the Implementation Measures for Decision-Making Policy of Matters regarding Important Issues, Important Projects, Appointment and Dismissal of Important Positions, and Large Amount of Funds (“Three Important and One Large Matters”) (《“三重一大”決策制度實施辦法》), and strictly ensure the implementation thereof, pursuant to which such matters require prior approval of the Party Committee of the Company. During the year, 29 Party Committee meetings were held and a total of 122 “Three Important and One Large Matters” were considered and approved. A total of 13 questions and 50 rectification targets were completed in 6 aspects through the municipal Party Committee’s inspection and feedback. The completion rate of rectification was 100%. One Party general committee and eight Party committees were newly established in Zhuji, Qujing and Shidian Dianchi Water.



2. Perform the supervision responsibilities of the Commission for Discipline Inspection and build a strong anti-corruption fortress

The Company strengthened its efforts to promote an ethical Party and corporate culture and focused on departments and positions with concentrated power, intensive capital and enriching resources to improve 5 systems, namely, the Measures for Implementation of the Supervision Work Management System (Trial Implementation) (《督查工作管理制度實施辦法(試行)》), the Measures for Implementation of Anti-corruption Risk Prevention and Control System (《廉政風險防控制度實施辦法》), Rules of Procedure of the Disciplinary Committee (Trial Implementation) (《紀委會議事規則(試行)》), the Measures for Implementation of the Supervision Work Management System (Trial Implementation) (《督查工作管理制度實施辦法(試行)》) and the Measures for Implementation of Regular Talks System within the Party (Trial Implementation) (《黨內

定期談心談話制度實施辦法(試行)》).

The Company strengthened promotion of Party affairs and open affairs and conducted pre-employment verification for the Company's newly promoted cadres in 2018. The Company also conducted verification for the 2017 advanced grassroots Party organizations, outstanding Party members and outstanding Party workers. Interim Results Conference was held, and other work was completed to strengthen regulation of the Company's bidding and tendering activities. During the year, the Disciplinary Committee carried out 160 competitive negotiations and opened tendering of transactions to perform supervision functions seriously.

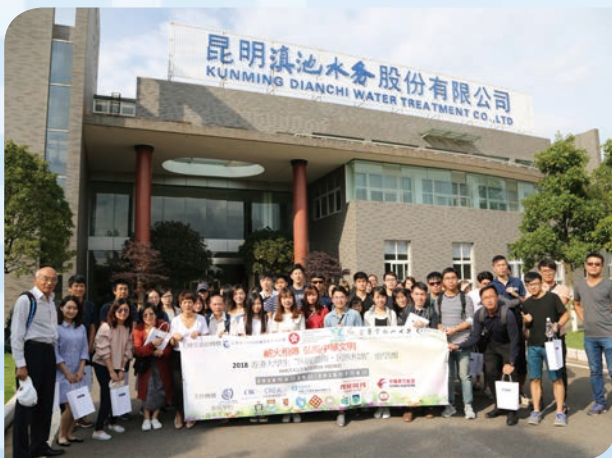


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In 2018, for the clues of the questions and the letters from the masses handed over by the Municipal Commission for Discipline Inspection and the Municipal Commission for Discipline Inspection, State-owned Assets Supervision and Administration Commission, a total of 5 visits and correspondences were investigated and dealt with, involving 29 people held accountable. After careful investigation and verification, 4 people received inner-Party warnings, 8 people received oral warnings and were ordered to rectify their misconducts, 13 people received written warnings and were ordered to rectify their misconducts, 2 people were demerited by administration, 2 people were transferred to other positions by administration and 6 people received oral warnings. By strengthening Party building and discipline inspection and supervision, the Company's production and operation will be ensured. During the year, the Disciplinary Committee held a total of 12 special meetings of the Disciplinary Committee to timely research and deploy the Disciplinary Committee's

implementation of supervising responsibility and promotion of an ethical Party and corporate culture. The secretary of the Disciplinary Committee has assumed the task of allocating the tasks to promote an ethical Party and corporate culture, met with the person in charge of the contact unit and has been briefed by 5 times, the main responsible person in charge of the department on the implementation of the responsibility system of such promotion risks 4 times.

Dianchi Water establishes an effective linkage mechanism to prevent extortion, fraud and money laundering. First, popularizing the study on risk knowledge and strengthening the risk awareness; second, signing target responsibility statement on safe production and environment protection and responsibility statement for target operation to strengthen the operating management; third, further improving the procedures of the review and execution of contracts; and fourth, establishing an effective linkage mechanism to prevent extortion, fraud and money laundering, with an aim to effectively prevent extortion, fraud and money laundering.



B8. Community Investment

In order to fully implement the decision deployment made at the 3rd Session of the 11th Plenary (Expanded) Conference of the Kunming Municipal Committee to ensure the poverty relief in Xundian County as scheduled, Dianchi Water, as a newly added municipal state-owned enterprise for the targeted poverty relief project of Rende Street, Xundian County, is mainly responsible for supporting the construction of related infrastructures of Rende Street, in accordance with the deployment of "Circular on Strengthening the Supportive Forces to Boost the Poverty Relief in Xundian County by the Poverty Relief Command Office of Kunming City" (《昆明市脫貧攻堅指揮部辦公室關於增強幫扶力量助推尋甸縣脫貧攻堅的通知》) (Kun Tuo Zhi Ban Fa [2017] No. 12).

According to the arrangement of poverty alleviation work in Kunming City, the Company cooperated with Dianchi Investment Company to endeavor to help the poor households in Yidaikuai village of Zhuanlong Town and organized helpers to carry out the work of assisting the households so as to fulfill political and social responsibilities seriously. The Company paired up to help 58 households in Huangtupo village of Zhuanlong Town, Luquan County to eliminate poverty. The Company actively assisted Xundian County in economic improvement and fulfilled the social responsibility of listed companies.

As of 31 December 2018, the Company alleviated poverty in Xundian Rende and Qingshuihai 3 times and alleviated poverty for 39 households through visits in 8 village committees of Yidaikuai village of Zhuanlong Town, Luquan County 3 times, distributing necessities such as rice and oil, etc. amounted to RMB14,000, all of which were funded and purchased by leading cadres of poverty alleviation of the Company.



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As the largest scale of sewage treatment in Yunnan Province and a Hong Kong listed environmental protection enterprise, while fulfilling the task of environmental protection and treatment, Dianchi Water also takes social responsibility in environmental protection education as an important task. Relying on the environmental protection infrastructures operated and managed in various regions, the Company receives approximately ten thousand social organizations, colleges and citizens to participate in environmental protection and social practice activities every year. Through the radiation effects of these visitors and volunteers, the ecological environmental protection knowledge and ideas are disseminated to the whole society, forming a sound atmosphere in which all employees pay attention to environmental protection and participate in environmental protection.

In 2018, Dianchi Water continued to carry out environmental protection and social practice activities, mobilizing more social forces to seek green development, share a beautiful environment and build a beautiful China.

Through environmental protection volunteer community service activities and display projects, such as sewage treatment process model, microbiological examination of activated sludge and determination of total phosphorus content of sewage, etc., the Company vividly disseminated knowledge of sewage treatment and reclaimed water utilization to the general public. The Company also distributed environmental protection brochures and green shopping bags to advocate low-carbon environmental protection, energy-saving, emission reduction, civilized lifestyle and environmental protection concepts and mobilized everyone to act together by starting from the daily life of oneself so as to protect the ecological environment and create a green and harmonious home.

As a water environmental protection enterprise, the Company will continue to actively fulfill its social responsibilities, carry out environmental protection publicity and education and strive to build an environmental protection education platform close to the masses, close to life and close to the harmonious coexistence of people and nature so as to enhance the environmental protection awareness of the population and contribute to the construction of ecological civilization and treatment of environmental protection.

