



# 天德化工控股有限公司 Tiande Chemical Holdings Limited

(於開曼群島註冊成立之有限公司) (股份代號：609)  
(incorporated in the Cayman Islands with limited liability) (Stock Code: 609)

## 2018

ENVIRONMENTAL,  
SOCIAL AND  
GOVERNANCE REPORT  
環境、社會及管治報告





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## 關於本報告

天德化工控股有限公司（「本公司」，連同其附屬公司統稱為「本集團」）之主要業務為研發、生產和銷售精細化工產品。

本集團的環境、社會及管治報告（「本報告」）乃根據香港聯合交易所有限公司（「聯交所」）證券上市規則附錄二十七闡述的《環境、社會及管治報告指引》（「ESG 指引」）而編製，並已遵守 ESG 指引內有關「不遵守就解釋」的規定。本報告旨在向本集團持份者傳達就二零一八年一月一日至二零一八年十二月三十一日期間就本公司兩家主要全資附屬公司濰坊柏立化學有限公司（「濰坊柏立」）及濰坊濱海石化有限公司（「濰坊濱海」）（除另有說明外）之重要環境、社會和管治等方面的可持續策略、管理方法和績效。本報告需與於二零一九年四月十八日在聯交所網站刊載的本公司二零一八年年度報告一併閱讀，特別是其中所載的企業管治報告。本報告已獲董事會審議通過。

## ABOUT THIS REPORT

Tiande Chemical Holdings Limited (hereinafter referred to as the “**Company**”) and its subsidiaries (collectively, the “**Group**”) are principally engaged in research and development, manufacture and sales of fine chemical products.

This environmental, social and governance report of the Group (this “**Report**”) is prepared in accordance with the Environmental, Social and Governance Reporting Guide (the “**ESG Guide**”) as set out in Appendix 27 to the Rules Governing the Listing of Securities on The Stock Exchange of Hong Kong Limited (the “**Stock Exchange**”) and satisfied the “comply or explain” provisions of the ESG Guide. This Report is aimed to communicate with the stakeholders of the Group on the sustainable strategies, management approach and performance on material environmental, social and governance issues of the two core wholly-owned subsidiaries of the Company, which are Weifang Parasia Chem Co., Ltd., (“**Weifang Parasia**”) and Weifang Binhai Petro-Chem Co., Ltd. (“**Weifang Binhai**”), unless otherwise stated, for the period of 1 January 2018 to 31 December 2018. This Report is to be read in conjunction with the 2018 annual report of the Company which was published on the website of the Stock Exchange on 18 April 2019, in particular the Corporate Governance Report contained therein. This Report has been reviewed and approved by the Board.



## 關於本報告 (續)

本公司董事組成之董事會（「董事會」）認為，良好的環境、社會和管治績效對實現業務可持續性及提升本集團競爭力具有決定性影響。本集團不僅對其投資者負責，而且對其包括客戶、供應商、僱員、政府和社會團體在內的整體持份者負責。因此，本集團通過各種渠道持續與其持份者保持有效溝通，包括有關地方當局進行現場檢查，週年股東大會、公告、與投資者、客戶和供應商會議、員工培訓、文化和體育活動、客戶服務熱線、參同行業會議及慈善和社會投資等，這使本集團能夠收集重要和有用的信息以全面評估和識別有關環境、社會和管治的相關事項，並有助於董事會制定和實施各項營運政策並管理相關風險，以維持業務發展。

作為盡責的企業，本集團嚴格履行環境、僱傭、人權、勞工權益、供應鏈管理、產品責任及反貪污等相關監管規定。本集團致力推動環境保護、社會責任及有效企業管治。

本集團非常歡迎對本報告反饋任何意見，以幫助本集團作出改進。請隨時通過電子郵件將您的意見或建議發送至 [info@tdchem.com](mailto:info@tdchem.com)。

## ABOUT THIS REPORT (Continued)

The board of directors (the “Board”) of the Company believes that sound environmental, social and governance performance has a decisive influence on achieving business sustainability and enhancing competitiveness of the Group. The Group is not only responsible to its investors, but also to its stakeholders including customers, suppliers, employees, governments and the social communities etc. as a whole. Hence, the Group keeps an effective communication with its stakeholders on an on-going basis through various channels, including on-site inspections by relevant local authorities, annual general meeting, announcements, meeting with investors, customers and suppliers, staff training, cultural and sport activities, customer services hotline, attending industry conferences, and charities and social investments etc. which enable the Group to collect essential and useful information to comprehensively evaluate and identify the relevant matters relating to the environmental, social and governance and helps the Board to establish and implement various policies in its operations and manage related risks so as to sustain its business development.

Being a responsible enterprise, the Group strictly complies with relevant regulators’ requirements on environment, employment, human rights, labour rights, supply chain management, product responsibility and anti-corruption. The Group is committed to promoting environmental protection, social responsibility and effective corporate governance.

Any feedback on this Report is most welcome for the Group to make improvement. Please don’t hesitate to send your comments or suggestions to us by email to [info@tdchem.com](mailto:info@tdchem.com)



## 環境

本公司將環境保護視作企業責任之一，且本公司充份認識到環境可持續發展對實現業務可持續發展的重要性。本集團致力於節能減排，通過（i）充分利用資源；（ii）深化循環經濟生產體系及（iii）採用先進的節能技術提高效率以減少對環境和自然資源的影響。

安全環保委員會早於二零零六年成立，旨在領導本集團的安全及環保工作，並負責本集團安全及環保等方面的重大決策。本集團已成立安全、健康及環境部（「**安全、健康及環境部**」）以制定本集團整體的安全、健康及環境政策和指引，並主要負責：（i）評估和識別本集團營運是否符合有關地方當局頒布的有關環保法律法規之要求；（ii）審閱及更新安全、健康和環境方案；（iii）參與討論重大的安全、健康和環境措施；（iv）檢查和監督安全、健康和環境計劃的實施；（v）確定潛在的環境問題並向安全和環境保護委員會提供預防和補救措施以供採納及實施；及（vi）審閱及處理環保工作獎懲意見。

## ENVIRONMENT

The Company undertakes environmental protection as part of its corporate responsibilities, and the Company is fully aware of the importance of sustainable environmental development in achieving sustainability in its operations. The Group is committed to the conservation of energy and minimisation of emission by (i) fully utilising resources; (ii) intensifying circular economy production system and (iii) adopting advanced energy-saving technologies to enhance efficiency while reducing the impact on the environment and natural resources.

The Safety and Environmental Protection Committee, which has been established since 2006, aims to lead the safety and environmental protection works of the Group and is responsible for making major decisions relating to safety and environmental protection concerns of the Group. The Group has set up the Safety, Health and Environment department (the “**SHE**”) to formulate the general policies and guidelines of safety, health and environment, and be mainly responsible for (i) evaluating and determining the Group’s operational compliance with the requirements of relevant laws and regulations on environmental protection issued by relevant local authorities; (ii) reviewing and updating the safety, health and environment programs; (iii) participating in discussion of major safety, health and environment measures; (iv) inspecting and supervising the implementation of safety, health and environment plans; (v) identifying potential environmental issues and providing prevention and remedial measures to the Safety and Environmental Protection Committee for adoption and implementation; and (vi) reviewing and handling the reward and disciplinary actions on environmental protection works.





## 環境 (續)

本集團所有生產場所均實施清潔生產。「綠色、清潔、低碳和循環經濟」的理念均於本集團所有業務全面實踐。本集團各附屬公司承擔安全、健康及環境措施的具體執行，並對合規性負責。

本集團一直通過技術改造積極推動先進的節能技術、工藝和裝備以及淘汰落後產能，以提高規模生產效益，不僅提高經濟表現，而且顯著提升了環保效益。本集團對在此方面達到可持續發展感到自豪。

本集團已建立一套環境管理體系，通過「規劃－執行－查核－改進」不斷改進環境管理體系，盡量減少對環境的損害。濰坊柏立及濰坊濱海均已取得ISO14000環境管理體系認證。

環保工作貫穿從產品設計到成品的整個週期，同時清潔生產審核定期持續進行。於二零一八年，據本集團所知，並無任何不遵守有關本報告所述環保層面的適用標準、規定及規管之任何重大事宜。

## ENVIRONMENT (Continued)

The Group implements clean production in all production sites. The philosophy of "green, clean, low-carbon and circular economy" has been adopted thoroughly in all operations of the Group. Each subsidiaries of the Group is in charge of the practical implementation of safety, health and environment measures and is responsible for the compliance thereof.

The Group consistently promotes the use of advanced energy-saving technologies, processes and equipment through technological upgrades as well as phasing out outdated production capacity in order to enhance the efficiency of the scale productivity which not only strengthens economic performance but also improves the effectiveness of environmental protection significantly. The Group takes pride in achieving sustainable development in this aspect.

The Group has established an environmental management system and has been improving the environmental management system through "plan - do - check - act" to minimise damage to the environment. Both Weifang Parasia and Weifang Binhai have received the ISO14000 Environmental Management System certification.

Environmental protection works run through the entire cycle from product design to finished product, while clean production audit is performed regularly and continuously. In 2018, the Group is not aware of any material non-compliance with applicable standards, rules and regulations relating to the environmental protection aspects discussed in this Report.





## 環境 (續)

### 排放物

本集團採取全面的環境管理體系，旨在符合或甚至達到低於有關地方當局廢氣、廢水和固體廢物排放標準。

本集團嚴格執行「三同時制度」的綠色措施，以確保防止污染設施同時納入項目設計、建設及生產。本集團鍋爐煙氣排放及鍋爐安裝均符合當地環保要求。

年內，並無發生任何違反「鍋爐大氣污染物排放標準」(GB 13271-2014)，「山東省鍋爐大氣污染物排放標準」(DB37/2374-2013)，「山東省關於加快推進燃煤機組(鍋爐)超低排放的指導意見」(魯環發[2015]98號)及「污水排入城鎮下水道水質標準」(GB/T31962-2015)等規則的行為。

年內，濰坊柏立及濰坊濱海均已通過完成改造工程提升異味治理設施，進一步降低大氣異味。

### 廢氣和溫室氣體減排

本集團竭盡全力減少其在開展業務時對環境造成的影響，並符合所有相關排放標準。

## ENVIRONMENT (Continued)

### Emission

The Group adopts a comprehensive environmental management system which aims to meet or even achieve a level below the relevant local authorities' emission standards for exhaust gas, wastewater and solid waste.

The Group strictly complies with "Three Simultaneous System" green measures to ensure that pollution prevention facilities are incorporated into the project design, construction and production at the same time. Both the flue gas emission from boilers and the installation of boilers of the Group are complied with the relevant local environmental requirements.

During the year, there were no non-compliance with The Boiler Air Pollutant Discharge Standards (GB 13271-2014), The Boiler Air Pollutant Discharge Standards in Shandong Province (DB37/2374-2013), Guidance Advices of Shandong Province regarding Accelerating Promotion of Ultra-low Emissions for Coal-Fired Units (Boilers) (Lu Huanfa no. [2015]98), and Sewage Discharge to the Town Sewer Water Quality Standards (GB/T31962-2015) etc.

During the year, both Weifang Parasia and Weifang Binhai had upgraded the odor management facilities by completion of improvement project to further reduce atmospheric odor.

### Reduction of Exhaust Gas and Greenhouse Gases

The Group makes every effort to minimise its impact on the environment when conducting its business, and all related emission standards are met.



## 環境 (續)

### 排放物 (續)

#### 廢氣和溫室氣體減排(續)

濰坊柏立和濰坊濱海均採用系統化的廢氣排放監控程序，令氣體排放定期受嚴密監測和評估。定期檢查廢氣排放系統性能，以確保排放系統正常運作。濰坊濱海已於有機垃圾焚燒處理設施、燃氣導熱油爐和燃氣蒸汽鍋爐內裝置在線監測系統，以跟蹤年內的排放數據。本集團主要產生的廢氣有氮氧化物、二氧化硫和煙塵。

污染物種類及相關排放資料如下：

## ENVIRONMENT (Continued)

### Emission (Continued)

#### Exhaust Gas and Reduction of Greenhouse Gases (Continued)

Both Weifang Parasia and Weifang Binhai adopt a systematic exhaust gas emission control procedure, whereby gas emission is closely monitored and measured regularly. The performance of exhaust gas emission system is regularly inspected to ensure that it functions normally. Weifang Binhai has built-in online monitoring system in organic waste incineration treatment facility, gas-fired heat conduction oil furnace and gas-fired steam boiler to keep track of emission data during the year. The exhaust gas produced by the Group is mainly nitrogen oxides, sulphur dioxide and smoke and dust.

Types of pollutants and relevant emission data are shown as follows:

#### 廢氣排放量 (以噸計)

##### Amount of exhaust gas emission (in tonnes)

|                                      | <b><u>2018</u></b> | <b><u>2017</u></b> |
|--------------------------------------|--------------------|--------------------|
| 氮氧化物 Nitrogen oxides                 | <b>68</b>          | 275                |
| 二氧化硫 Sulphur dioxide                 | <b>14</b>          | 50                 |
| 廢氣中的煙塵 Smoke and dust in exhaust gas | <b>3</b>           | 5                  |

#### 廢氣排放濃度 (以每立方米之毫克計)

##### Density of exhaust gas emission (in mg/m<sup>3</sup>)

|                                            | <u>濰坊柏立</u><br><u>Weifang Parasia</u> |                    | <u>濰坊濱海</u><br><u>Weifang Binhai</u> |                    |
|--------------------------------------------|---------------------------------------|--------------------|--------------------------------------|--------------------|
|                                            | <b><u>2018</u></b>                    | <b><u>2017</u></b> | <b><u>2018</u></b>                   | <b><u>2017</u></b> |
| 氮氧化物<br>Nitrogen oxides                    | <b>66.0</b>                           | 154.0              | <b>41.4</b>                          | 140.0              |
| 二氧化硫<br>Sulphur dioxide                    | <b>13.7</b>                           | 14.0               | <b>5.3</b>                           | 10.0               |
| 廢氣中的煙塵<br>Smoke and dust<br>in exhaust gas | <b>2.7</b>                            | 2.4                | <b>1.5</b>                           | 5.0                |

## 環境 (續)

### 排放物 (續)

#### 廢氣和溫室氣體減排(續)

為達到「山東省鍋爐大氣污染物排放標準」對廢氣中氮氧化物、二氧化硫和煙塵的要求，濰坊柏立及濰坊濱海均已安裝脫硫、脫硝和超低排放設施並已正常運行。該安裝及建設已獲得地方有關當局認可，並於二零一七年獲批環保專項基金以示鼓勵。

自二零一七年年年底起，濰坊濱海和濰坊柏立均已符合濰坊市超低排放標準要求。自二零一七年八月份開始，濰坊濱海生產過程中動力煤的消耗已完全被天然氣所取代，此改變已大大減少溫室氣體排放。此外，濰坊濱海於年內已提升燃氣導熱油爐和每小時 20 噸的蒸汽鍋爐改造的廢氣排放控制功能，同時，燃氣蒸汽鍋爐已安裝超低排放設施，此後，氮氧化物排放量已大幅下降。這些改進能支持並有利於未來濰坊濱海的預期產量擴充。於二零一八年及二零一七年，濰坊柏立及濰坊濱海的氮氧化物、二氧化硫和煙塵排放量一直保持在低於「山東省鍋爐大氣污染物排放標準」所規定之水平。

## ENVIRONMENT (Continued)

### Emission (Continued)

#### Exhaust Gas and Reduction of Greenhouse Gases (Continued)

In order to fulfil the emission standards for nitrogen oxides, sulphur dioxide and smoke and dust in exhaust gas required by The Boiler Air Pollutant Discharge Standards in Shandong Province, both Weifang Parasia and Weifang Binhai have installed desulfurisation, denitrification and ultra-low emission facilities which have been functioning normally. The installations and constructions were recognised by the local authorities and environmental protection special funds were granted as an encouragement in 2017.

Both Weifang Binhai and Weifang Parasia have complied with the requirement of ultra-low emission standards of Weifang City since the end of 2017. The consumption of thermal coal has been fully replaced by natural gas in production process of Weifang Binhai since August 2017. Such change has greatly reduced greenhouse gas emissions. Besides, Weifang Binhai has upgraded the exhaust emission control functions of gas-fired heat conduction oil furnace and 20t/h steam boiler while the gas-fired steam boiler has installed ultra-low emission facilities during the year, thereafter the emission of nitrogen oxides declined substantially. Such improvements can support and facilitate the expected production expansion of Weifang Binhai in the future. The emission of nitrogen oxides, sulphur dioxide and smoke and dust of Weifang Parasia and Weifang Binhai are always kept below the level stipulated by "The Boiler Air Pollutant Discharge Standards in Shandong Province" throughout the year of 2018 and 2017.



## 環境 (續)

### 排放物 (續)

#### 廢水

本集團嚴謹處理工業廢水，並採取各種措施回收利用廢水，以確保排放合規及減少廢水排放。濰坊柏立採用生化廢水處理工序回收用水，而經處理後的循環水主要用於道路灑水、綠化灌溉及煤場灑水等，剩餘經處理後的廢水排入城市廢水處理廠。於二零一八年，濰坊柏立已升級其厭氧系統，以滿足日益增長的廢水處理需求。

於二零一八年，濰坊柏立經處理後的廢水排放量為 428,164 噸（二零一七年：465,770 噸），化學需氧量（「**化學需氧量**」）濃度為每升 52.4 毫克（二零一七年：每升 52.2 毫克），而化學需氧量排放量達 22.4 噸（二零一七年：25.4 噸），遠遠低於「污水排入城鎮下水道水質標準」之規定。

濰坊濱海廢水由安裝在管架上的污水管連接每個生產設施至廢水處理站。濰坊濱海採用生化處理加反滲透膜處理技術回收再利用廢水。年內，濰坊濱海進一步完善污水處理系統及改進乙二胺四乙酸濃度廢水處理，從而提高污水處理的整體能力。

## ENVIRONMENT (Continued)

### Emission (Continued)

#### Wastewater

The Group conducts stringent treatments on its industrial wastewater by taking various measures to recycle and reuse wastewater in order to ensure compliant discharge and reduction of wastewater discharge. Weifang Parasia adopts biochemical wastewater treatment process to recycle water. The treated recycled water is primarily used in road sprinkler, plant irrigation and coal sprinkler etc., and the remaining treated wastewater is discharged into the urban wastewater treatment plant. In 2018, Weifang Parasia has upgraded its anaerobic system to meet the increasing demand of wastewater treatment.

In 2018, the treated wastewater of Weifang Parasia discharged was 428,164 tonnes (2017: 465,770 tonnes) with chemical oxygen demand ("**COD**") concentration of 52.4mg/L (2017: 52.2mg/L) and COD emissions of 22.4 tonnes (2017: 25.4 tonnes), which were far below the requirements of "Sewage Discharge to the Town Sewer Water Quality Standards".

Waste water of Weifang Binhai is collected from each production facilities to a sewage treatment station by linked sewer pipes installed on pipe rack. Weifang Binhai uses biochemical treatment plus reverse osmosis membrane treatment technology to recycle and reuse wastewater. During the year, Weifang Binhai had further upgraded its sewage treatment system and improved EDTA concentration wastewater treatment so as to enhance the overall wastewater treatment capability.



## 環境 (續)

### 排放物 (續)

#### 廢水 (續)

年內，隨著更高標準的產品質量和更先進的生產工藝以及新增的生產線，生產用水量有所增加，而濰坊濱海總廢水量同樣增至 46,819 噸（二零一七年：5,673 噸），其化學需氧量濃度為每升 100.0 毫克（二零一七年：34.2 毫克）及化學需氧量排放量為 4.68 噸（二零一七年：0.2 噸）。該廢水經處理後未能在生產中再使用並排至濰坊濱海工業園區集中污水處理廠的

#### 廢棄物處置

本集團非常重視有害及無害廢物的產生和處置，並嚴格遵守有關地方當局之規定。

本集團已製定營運所產生廢棄物的處理指引及規例。所有廢棄物都被分類為可回收、不可回收、有害或無害，它們被儲存並收藏於帶有明確標籤的容器。工廠平面圖上已明確標明有害廢棄物臨時收集所在場地。持有危險廢物的容器必須一直處於密封狀態並定期運送到指定地點儲存。為減少對環境的影響，本集團專門建設一條生產線，將部份有害廢棄物料加工變為有用資源出售。不能回收的有害廢物由合資格的機構收集、回收和處理。

## ENVIRONMENT (Continued)

### Emission (Continued)

#### Wastewater (Continued)

During the year, as higher standards of product quality and more advanced production process as well as newly increased production lines, water consumption in production was increased. The total amount of treated wastewater of Weifang Binhai increased to 46,819 tonnes (2017: 5,673 tonnes) with COD concentration of 100.0mg/L (2017: 34.2mg/L) and COD emissions of 4.68 tonnes (2017: 0.2 tonnes) as well. Such wastewater could not be reused in the production and was discharged into the central sewage treatment plant located in the industrial park of Weifang Binhai.

#### Disposal of Waste

The Group places great emphasis on the generation and disposal of hazardous and non-hazardous wastes and complies strictly with the requirements imposed by the relevant local authorities.

The Group has established guidelines and regulations for handling wastes which are generated from operations. All wastes are categorised as recyclable, non-recyclable, hazardous or non-hazardous. They are stored and collected in designated containers which are clearly labelled. The temporary collecting sites for hazardous wastes are clearly marked on the plant layout plan. Containers holding hazardous wastes must be covered all the time and delivered to the designated area for storage periodically. In order to reduce the impacts on the environment, the Group has specifically built a production line to re-process some hazardous waste materials into useful resources for sales. Hazardous wastes cannot be recycled are handled by qualified organisations for collection, recycle and disposition.

## 環境 (續)

### 排放物 (續)

#### 廢棄物處置 (續)

年內，由於濰坊濱海生產規模和產能不斷擴大，因此危險廢棄物量有所增加，由合資格機構收集、回收和處置濰坊柏立和濰坊濱海產生的有害廢棄物合共總量約為 435.9 噸（二零一七年：121.4 噸）。無害廢棄物將由市政垃圾處理站收集及處置。於二零一八年，濰坊柏立和濰坊濱海產生了約 2,450.0 噸（二零一七年：2,600.0 噸）無害的灰塵固體廢物。

於二零一七年，濰坊濱海建有有機垃圾焚燒處理設施處理若干有害或無害及液態或固態廢棄物（若廢物符合焚燒要求）。於二零一八年，濰坊濱海的有機廢物焚化處理設施處理約 1,076.0 噸（二零一七年：150.0 噸）廢棄物。此外，濰坊濱海有機廢物焚燒處理設施自二零一八年四月經有關地方環保局批准後，可以處理本集團公司（「同系子公司」）產生的廢棄物。於二零一八年，濰坊濱海的有機廢物焚化處理設施已處理同系子公司產生廢棄物 679.4 噸（二零一七年：無）。鑑於本集團的生產規模正在擴張，本集團計劃未來數年逐步擴大濰坊濱海有機廢物焚燒處理設施的產能，以減少廢物排放。

## ENVIRONMENT (Continued)

### Emission (Continued)

#### Disposal of Waste (Continued)

During the year, since the production scale and capacity of Weifang Binhai kept enlarging, thereby the volume of hazardous wastes has been increased. The total amount of hazardous wastes generated by Weifang Parasia and Weifang Binhai and collected, recycled and disposed by qualified organisations was about 435.9 tonnes (2017: 121.4 tonnes). Non-hazardous wastes will be collected and disposed of through the municipal waste disposal station. In 2018, Weifang Parasia and Weifang Binhai had generated approximately 2,450.0 tonnes (2017: 2,600.0 tonnes) non-hazardous waste in the form of ash and dust.

In 2017, Weifang Binhai built an organic waste incineration treatment facility to process certain hazardous or non-hazardous and liquid or solid wastes provided that such wastes fulfil the requirement of incineration. In 2018, a total of approximately 1,076.0 tonnes (2017: 150.0 tonnes) waste was processed by the organic waste incineration treatment facilities of Weifang Binhai. Besides, the organic waste incineration treatment facility of Weifang Binhai is capable to process waste which are produced by the Group companies (the “**Fellow Subsidiaries**”) as approved by relevant local environmental authorities since April 2018. In 2018, the total waste produced by the Fellow Subsidiaries of 679.4 tonnes (2017: nil) was processed by the organic waste incineration treatment facility of Weifang Binhai. In view of the production scale of the Group is enlarging, the Group is planning to expand the capacity of organic waste incineration treatment facilities of Weifang Binhai gradually in the coming years to reduce the emission of waste.

## 環境 (續)

### 資源使用

本集團致力源頭減廢。本集團實施清潔生產及深化循環經濟生產體系以加強資源循環利用及避免資源浪費。此外，本集團資源使用的基本原則乃嚴格遵守四大環保守則：一）減少浪費；二）資源回收；三）循環再用；四）使用環保替代品，此乃全面覆蓋本集團的所有業務活動。

本集團非常重視在營運過程中有效利用資源及盡量減少浪費，資源的使用是本集團生產廠房的關鍵績效指標之一。員工通過本集團工作流程中建立的各種指引意識到資源節約的重要性。這不僅可以提升本集團的生產效率，也提供了教育及加強社區環境保護意識。

為了節省資源，包裝材料盡可能回收再用。倘客戶同意，本集團便會使用化工液態罐裝車交付產品。於二零一八年，本集團原應使用約 184,645 個（二零一七年：270,000 個）新塑料或鋼製包裝桶，但經採用回收再用的包裝桶以及化學品罐裝車交付產品後，本集團實際使用約 91,384 個（二零一七年：81,000 個）新塑料或鋼製包裝桶。年內，濰坊柏立及濰坊濱海用於成品的所有包裝物料為 1,494.35 噸（二零一七年：978.04 噸）。

## ENVIRONMENT (Continued)

### Use of Resources

The Group is committed to reduce waste at source. The Group implements clean production and intensifying circular economy production system to strengthen recycling of resources and avoid waste of resources. Besides, the basic principle for the use of resources of the Group is strictly complied with 4Rs (Reduce, Recycle, Reuse and Replace) which cover the Group's all business activities.

The Group highly emphasises on the effective use of resources and minimise waste during operations. Use of resources is one of the key performance indicators of the production plants of the Group. Employees are aware of the importance of resource conservation through various guidance set up in the workflow of the Group. It is not only promotes the productivity efficiency of the Group but also provides education and increase awareness on environmental conservation among the society in this regard.

In order to save resources, packaging materials are recycled and reused as much as possible. The Group will also use chemical liquid tank trucks to deliver products if this is consented by customers. In 2018, the Group would have used approximately 184,645 (2017: 270,000) new plastic or steel packing barrels; however, the Group actually used new plastic or steel packaging barrels of approximately 91,384 (2017: 81,000) after using the recycled and reused packing barrels as well as engaging chemical liquid tank trucks to deliver products. During the year, all packaging materials used by Weifang Parasia and Weifang Binhai for the finished products was 1,494.35 tonnes (2017: 978.04 tonnes).

## 環境 (續)

### 資源使用 (續)

本集團從當地供水局及生產場地內的自備水井供應其工業用水。濰坊柏立及濰坊濱海的工業用水總消耗量如下：

|                                                           | <u>2018</u>                          | <u>2017</u>                          |
|-----------------------------------------------------------|--------------------------------------|--------------------------------------|
| 工業用水<br>Industrial water                                  | 400,859 立方米<br>400,859m <sup>3</sup> | 259,527 立方米<br>259,527m <sup>3</sup> |
| - 立方米/人民幣百萬元營業額<br>m <sup>3</sup> per million RMB revenue | 285.1                                | 170.6                                |

### 使用能源

本集團以往利用的能源主要包括動力煤以及電力。自二零一七年八月起濰坊濱海已率先在生產過程中全面實施天然氣替代動力煤。於二零一八年，濰坊濱海共消耗約3,079,927 立方米天然氣（二零一七年八月至十二月：839,008 立方米）。濰坊柏立的動力煤耗量如下：

|                                                 | <u>2018</u>               | <u>2017</u>               |
|-------------------------------------------------|---------------------------|---------------------------|
| 動力煤<br>Thermal coal                             | 50,385 噸<br>50,385 tonnes | 61,332 噸<br>61,332 tonnes |
| - 噸/人民幣百萬元營業額<br>tonnes per million RMB revenue | 81.9                      | 40.3                      |

二零一八年的噸/人民幣百萬元營業額增加主要是由於產品銷售價格下降所致。

## ENVIRONMENT (Continued)

### Use of Resources (Continued)

The industrial water used by the Group is supplied by the local water supply authorities and self-constructed water wells within the production sites. The total consumption of industrial water by Weifang Paraisa and Weifang Binhai is shown as follows:

### Energy Use

In the past, the energy used by the Group mainly comprised thermal coal and electricity. Weifang Binhai has taken the lead in fully implemented the replacement of thermal coal with natural gas in its production process since August 2017. In 2018, Weifang Binhai had consumed approximately 3,079,927 m<sup>3</sup> (August to December 2017: 839,008 m<sup>3</sup>) of natural gas. The consumption of thermal coal of Weifang Parasia is as follows:

An increase of tonnes per million RMB revenue is mainly caused by the decline of products selling price in 2018.

## 環境 (續)

### 資源使用 (續)

#### 使用能源 (續)

濰坊柏立和濰坊濱海的總用電量如下：

|                             | <u>2018</u>           | <u>2017</u>     |
|-----------------------------|-----------------------|-----------------|
| 電                           | 232,767,356 千瓦時       | 233,815,106 千瓦時 |
| Electricity                 | <b>232,767,356KWH</b> | 233,815,106KWH  |
| - 千瓦時/人民幣百萬元營業額             |                       |                 |
| KWH per million RMB revenue | <b>165,571</b>        | 153,718         |

二零一八年的千瓦時/人民幣百萬元營業額增加主要是由於產品銷售價格下降所致。

## ENVIRONMENT (Continued)

### Use of Resources (Continued)

#### Energy Use (Continued)

The total consumption of electricity of Weifang Parasia and Weifang Binhai are as follows:

An increase of KWH per million RMB revenue is mainly caused by the decline of products selling price in 2018.

#### 節約能源

本集團一直堅持「維修、再用、充份利用」的原則，以減少生產中所產生的廢物，並制定了若干管理措施，例如「節能減排管理辦法」及「節能減排監督管理實施細則」等。此外，本集團實施能源消耗定額管理，以及將節能減排指標納入年度考核的一環。

#### Energy Conservation

The Group always adhere to the principle of “repair, reuse, full utilisation” to reduce waste generated by production. Certain management measures are formulated by the Group, such as Administrative Measures for Energy Conservation and Emission Reduction, and Implementation Rules for Monitoring of Energy Conservation and Emission Reduction etc. Besides, the Group implements energy consumption quota management and the criteria of energy conservation and emission reduction form part of the annual appraisal.

## 環境 (續)

### 資源使用 (續)

#### 節約能源 (續)

本集團不斷為節能減排投放更多資源，例如：(i) 安裝或優化高效能源設備；(ii) 安裝新型和高效的變壓器；(iii) 充份利用餘熱餘壓；(iv) 回收利用排放廢氣所產生的能量；(v) 回收利用加熱過程產生的蒸汽冷凝水；(vi) 電力系統節能；(vii) 不斷改進生產工藝及技術；及(viii) 精簡營運程序，藉此控制燃料、電、水等的消耗，提升營運中的資源效益。以上均為本集團積極努力成為資源節約型企業的部分措施。此外，以下生產工藝改進進一步證明了本集團的節能工作。

濰坊柏立的鍋爐配備高溫餘熱回收設備，以回收剩餘熱量，提高能源效益，及降低動力煤耗用，否則二零一八年及二零一七年分別將需要額外耗用約 2,688 噸及 2,810 噸動力煤。

氰化鈉生產線已具備尾汽綜合利用技術，於二零一八年，濰坊柏立及濰坊濱海因此回收蒸汽約 142,806 噸（二零一七年：176,610 噸），節省生產成本約人民幣 17,000,000 元（二零一七年：人民幣 25,000,000 元）。

## ENVIRONMENT (Continued)

### Use of Resources (Continued)

#### Energy Conservation (Continued)

The Group keeps investing and placing additional resources in energy conservation and emission reduction such as (i) installation or optimisation of high-efficiency energy equipment; (ii) installing new and efficient transformers; (iii) fully utilisation of remaining heat and pressure; (iv) recycle of the energy released from exhaust gas emission; (v) recycle of the steam condensed water produced in heating process; (vi) energy saving electrical system; (vii) improvement of production processes and technologies continuously; and (viii) streamlining the operational procedures, thereby control the consumption of fuel, electricity and water to improve the resource efficiency in its operations. All of these are part of proactive efforts of the Group to become a resource-conservative enterprise. Besides, the following production process improvements have further demonstrated energy conservation efforts made by the Group.

The boilers of Weifang Parasia are equipped with high temperature residual heat recovery facilities to recycle remaining heat which enhance energy efficiency and reduce consumption of thermal coal which would otherwise require additional approximately 2,688 tonnes and 2,810 tonnes of thermal coal in 2018 and 2017 respectively.

A tail steam comprehensive utilisation technique has been built-in in the production lines of sodium cyanide, Weifang Parasia and Weifang Binhai thereby have recycled steam of approximately 142,806 tonnes (2017: 176,610 tonnes) and saved around RMB17.0 million (2017: RMB25.0 million) in terms of production cost in 2018.



## 環境 (續)

### 資源使用 (續)

#### 節約能源 (續)

濰坊濱海有機垃圾焚燒處理設施運行期間，還可以通過餘熱回收設施同時產生並回收蒸汽。年內，合共大約 1,381 噸（二零一七年：1,728 噸）的蒸汽已經回收並用於生產中。

本集團並在其工作場所推行節能措施，包括安裝節能照明系統、設置空調最佳溫度、以及在辦公時間之後或不使用時，關閉照明、空調、電腦及其他辦公設備，以及鼓勵員工減少使用紙張。

濰坊柏立及濰坊濱海均已通過山東省環境保護廳專家組進行的清潔生產評估。

#### 節約水資源

本集團大力提倡節約用水，積極採取節水措施，並實行多項技術提升。於二零一八年，濰坊濱海廢水處理系統已處理約 97,964 噸廢水並回收再用（二零一七年：13,854 噸）。濰坊柏立採用高效的冷凝水回收系統，通過冷凝來回收水，因此，於二零一八年，節水量超過 269,100 噸（二零一七年：281,400 噸）。

## ENVIRONMENT (Continued)

### Use of Resources (Continued)

#### Energy Conservation (Continued)

During the operation of the organic waste incineration treatment facilities of Weifang Binhai, it can also generate and recycle steam through residual heat recovery facilities simultaneously. The total steam of approximately 1,381 tonnes (2017: 1,728 tonnes) was recycled and used in the production during the year.

The Group also applies energy saving measures in its workplaces including installation of an energy-saving lighting system, setting optimal temperature for the air-conditioning, and switching off the lighting, air-conditioning, computers and other office equipment after office hours or when not utilised as well as encouraging employees to reduce the use of paper.

Both Weifang Parasia and Weifang Binhai have passed the clean production assessment conducted by the expert team from Shandong Provincial Environmental Protection Office.

#### Water Resource Conservation

The Group advocates water conservation and takes a proactive approach in adopting water-saving measures and implementing various technological upgrades. Wastewater treatment system of Weifang Binhai has processed an amount of approximately 97,964 tonnes (2017: 13,854 tonnes) wastewater and recycled in 2018. Weifang Parasia adopted an efficient condensation recovery system to reclaim water by steam condensation, thus achieving water conservation amount of over 269,100 tonnes (2017: 281,400 tonnes) in 2018.



## 環境 (續)

### 環境及天然資源

本集團在營運過程中不可避免排放各種廢氣、廢水和廢物，然而，本集團已實施多項安全及環保措施，並定期進行監察及檢查，以確保在妥善處理之前不會釋放有害排放物。過去，動力煤是本集團支持其產品的核心原材料之一，為了進一步減少溫室氣體排放，自二零一七年八月起濰坊濱海已在其生產中使用天然氣替代動力煤。本集團將持續採取各種措施以節約和減少天然資源的消耗。

為了履行從產品研發、採購、製造至產品交付客戶等的環境責任，本集團將其安全及環境措施與業務緊密結合。本集團致力加強綠色營運流程，確保其所有產品可獲業內認可，並符合產品的環保規定。

安全及環境措施的有效實施有賴於內部和外部持份者的支持。因此，本集團致力確保員工清楚瞭解安全及環境相關政策和適用於本集團的具體規定，並鼓勵業務合作夥伴與本集團的經營方針一致，以持續方式經營，不斷完善。

## ENVIRONMENT (Continued)

### Environmental and Natural Resources

The emissions of various exhaust gas, waste water and wastes produced in the course of the Group's operation are inevitable. However, the Group has implemented various safety and environmental protection measures, regular monitoring and inspecting to ensure harmful emissions and discharges are not released before proper treatments. Thermal coal was one of the key raw materials to the Group for supporting its productions in the past. In order to reduce greenhouse gas emission further, Weifang Binhai has used natural gas in place of thermal coal in its production since August 2017. The Group will continuously take various measures to save and reduce its natural resources consumptions.

The Group closely aligns and integrates its safety and environmental measures into operations, in order to fulfil environmental responsibilities throughout product research and development, procurement, manufacturing and products delivery to customers. The Group is dedicated to enhancing its green operation flows, ensuring industry accreditation of all its products and meeting the products' environmental protection requirements.

The effective implementation of safety and environmental measures relies on the support of the internal and the external stakeholders. Therefore, the Group is committed to ensuring that its employees have clear understanding of the relevant safety and environmental policies and the specific requirements applicable to the Group and to encouraging its business partners to align with the Group's policies to operate in a sustainable manner and achieve continuous improvement.





## 環境 (續)

### 環境及天然資源 (續)

從生產工地收集的所有管道、閥門、配件、儀器儀表、電氣元件和設備等都必须進行檢查和修理，以恢復其原有功能。此舉不單有助減少產生的廢物，亦降低本集團營運成本。

本集團將持續加強對潛在環境危害隱患的治理工作，以全面降低環境風險。

## ENVIRONMENT (Continued)

### Environmental and Natural Resources (Continued)

All pipes, valves, fittings, instrumentation, electrical components and equipment etc. collected from production sites are inspected and repaired to restore their original functionality. This not only helps to reduce wastes from the production, but also lowers the operating costs of the Group.

The Group will consistently enhance management initiatives for potential environmental hazards in order to minimise the environmental risk exposures in a comprehensive approach.



## 社會

### 僱傭及勞工

本集團的政策是為各級就業提供均等的就業及晉升機會。本集團目前及日後均不會基於種族、宗教、性別、懷孕、年齡、婚姻狀況、殘疾等原因而歧視任何合資格的申請人或僱員。

本集團嚴格遵守「中華人民共和國勞動合同法」、「中華人民共和國社會保險法」及「香港僱傭條例（香港法例第 57 章）」有關補償及解僱、招聘及晉升、工時、休息時間、平等機會、多元化、反歧視及其他業務所在地的福利等範疇。本集團亦已制定「僱員手冊」、「僱員薪酬管理政策」、「僱員考勤和假期管理政策」、「僱員有薪年假管理政策」、「僱員招聘管理政策」及「僱員操守準則」，以不斷完善和優化其員工體制、職能調整、薪酬水平、表現考核及僱員培訓等，目的是確保關鍵人員留任以維持本集團穩步發展。

本集團必須承擔人才招聘和培育的社會責任。本集團的招聘透過內部調職、內部晉升和外部招聘進行，並堅持機會均等的原則。現有僱員會獲優先考慮填補空缺職位。只有在沒有適合的內部員工可填補空缺的情況下，方會進行外部招聘。本集團提倡多元化的勞動力，包括年齡及性別等。於二零一八年十二月三十一日，本集團共有 1,428 名（二零一七年：1,589 名）全職僱員。

## SOCIETY

### Employment and Labour

It is the policy of the Group that equal employment and advancement opportunities are provided for all levels of employment. The Group does not and will not discriminate against any qualified applicant or employee based on their race, religion, gender, pregnancy, age, marital status, individuals with a disability etc..

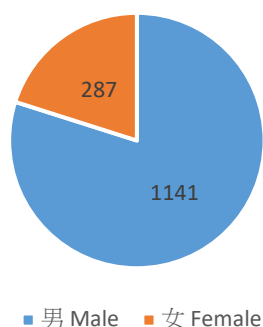
The Group strictly complied with the Labor Contract Law of the People's Republic of China, Social Insurance Law of the People's Republic of China and Employment Ordinance (Chapter 57 of Hong Kong Law) in relation to compensation and dismissal, recruitment and promotion, working hours, rest periods, equal opportunity, diversity, anti-discrimination and other benefits and welfare in the locations where the Group operates. The Group has also formulated Employee Handbook, Employee Remuneration Management Policy, Staff Attendance and Holiday Management Policy, Staff Paid Annual Leave Management Policy, Staff Recruitment Management Policy and Employee Code of Conduct, in order to continuously improve and optimise its staff organisation, work roles adjustments, remuneration level, performance appraisal and employee training etc. with an aim to ensure the retention of key personnel for sustaining the steadfast development of the Group.

The Group must assume social responsibilities of talent recruitment and cultivation. The recruitment of the Group is conducted through internal redeployment, internal promotion and external recruitment and upholds the principle of equal opportunity. Priorities are given to existing employees to fill out any vacancies. External recruitment would be conducted only if there is no suitable internal employee to fill up the vacancy. The Group promotes the diversity of workforce, including age, gender etc. As at 31 December 2018, the Group has 1,428 (2017: 1,589) full time employees.

## 社會

### 僱傭及勞工 (續)

截至二零一八年十二月三十一日止  
本集團總僱員人數  
Total number of employee of the  
Group as 31 December 2018



於二零一八年十二月三十一日，具有大學或以上學歷僱員有 265 名（二零一七年： 239 名）。

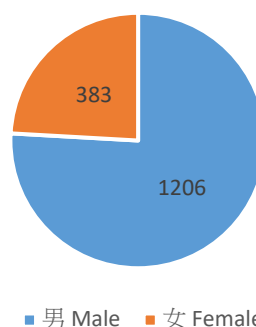
於二零一八年，共有 211 名（二零一七年： 289 名）僱員離職，離職率為 14.8%（二零一七年： 18.2%）。

僱員是本集團賴以成功的寶貴資產。本集團已制訂完善的人力資源策略以吸引和挽留優秀人才。在兼顧市場競爭和內部公平的基礎上，本集團為僱員提供完善並富競爭力的薪酬福利制度，與此同時，僱員享有年假、病假、婚假、產假及其他法定假期。僱員薪酬乃根據職位、技能和知識、表現和能力釐定，並會考慮本集團的經營業績。本集團的管理層定期檢討現有的薪酬福利方案，以確保能夠在行業中保持競爭力，從而吸引和挽留人才。

## SOCIETY

### Employment and Labour (Continued)

截至二零一七年十二月三十一日止  
本集團總僱員人數  
Total number of employee of the  
Group as 31 December 2017



As at 31 December 2018, there were 265 (2017: 239) employees with university or higher education.

During the year of 2018, a total of 211 (2017: 289) employees resigned, representing a turnover rate of 14.8% (2017: 18.2%).

The success of the Group is reliant on its employees, which is the most valuable asset. The Group has well-established human resources strategies to attract and retain competent employees. Taking into account the basis of market competition and internal fairness, the Group provides employees with sophisticated and competitive remuneration and benefit regime while the employees enjoy various kinds of leaves including annual leave, sick leave, marriage leave, maternity and other statutory leave. Employee remunerations are determined according to their positions, skills and knowledge, performance, capabilities and taking into account the Group's operating results. The management of the Group regularly review the existing remuneration and benefit package to make sure it is able to attract and retain talents by staying competitive in the industry.



## 社會

### 僱傭及勞工 (續)

本集團人力資源管理制度的目標之一是為員工締造公平、安全、健康和愉快的工作環境，並確保工作場所不受任何騷擾、暴力和歧視。僱員的身心健康是本集團關注的事項之一。本集團成立了員工福利會，以培養及教育員工道德，並舉行旅遊、籃球比賽、乒乓球比賽、越野比賽、歌唱比賽等體育文化活動，讓僱員在忙碌工作過後能夠放鬆和緩解壓力。本集團管理層力求豐富僱員的工餘生活，建立企業凝聚力。員工福利會代表亦會出席僱員家屬的婚禮或葬禮，為貧困職工提供財政援助，並慰問和探訪退休或生病的僱員。

於二零一八年和二零一七年，員工福利會已為員工籌辦郊遊、籃球聯賽、越野比賽及歌唱比賽等活動，令僱員身心得以健康平衡發展，以及提高他們對本集團的歸屬感。

於二零一八年和二零一七年，本集團並無違反有關僱用僱員的所有適用法律及法規。

## SOCIETY

### Employment and Labour (Continued)

One of the objectives of the human resources management system of the Group is to create a fair, safe, healthy and pleasant working environment for its employees and make sure a workplace is free from harassment, violence and discrimination of any kind. Physical and mental well-being of the employees is one of the concerns of the Group. The Group has set up a staff welfare club to cultivate and educate the ethics of employees and organise sports and cultural activities, such as outings, basketball competition, table tennis competition, cross country competition, singing competition and so on in order that employees are able to relax and relieve stress after busy work. The management of the Group strives to enliven its employees' after work life and create solidarity. The representatives of staff welfare club will also attend wedding or funeral of family members of our employees, provide financial assistance to destitute employees, and pay condolences and home visits to retired or sick employees.

In both 2018 and 2017, the staff welfare club has organised outings, basketball leagues, cross country competition and singing competition etc. to promote staff mental and physical health as well as their sense of belonging to the Group.

The Group has no non-compliance with all applicable laws and regulations regarding employment of workforce in both 2018 and 2017.



## 社會

### 健康與安全

本集團嚴格遵守「中華人民共和國職業病防治法」。本集團以「安全第一」為原則，致力創造舒適安全的工作環境。濰坊柏立和濰坊濱海均設有完善的「職業健康安全管理体系」，並已獲ISO18000認證。所有員工每年都通過職業健康檢查，未發現職業病或疑似職業病患者。於二零一八年和二零一七年期間，本集團並沒有與工作有關的死亡事故。於二零一八年，因工受傷導致的損失工作天數為125日（二零一七年：134日）。

本集團極為重視安全生產，已制定一套全面的指導方針和操作程序，以確保本集團所有生產基地的安全運作。此外，本集團不斷完善各種防護設施及提升生產自動化，以及定期修訂和更新與安全生產有關的若干指引和政策，以降低發生工作相關意外或工傷的可能性。年內，濰坊柏立新購安全仪表系統專門用於危險化學品的處理，以提高生產過程中的安全水平。此外，本集團已實施安全風險分級管理和安全隱患排查治理的雙重預防機制，作為嚴密監測和控制主要危害成因的其中一環。於二零一八年，濰坊柏立和濰坊濱海進行了共12次（二零一七年：35次）詳盡的潛在安全隱患檢查，並發現了若干潛在安全威脅，並予以即時糾正。

## SOCIETY

### Health and Safety

The Group strictly complies with the Law of the PRC on Prevention and Treatment of Occupational Diseases. The Group is dedicated to creating a comfortable and safe workplace based on the "Safety First" principle. Both Weifang Parasia and Weifang Binhai have well established Occupational Health and Safety Management System with ISO18000 certification. All employees have passed occupational health examinations annually, and no actual or suspected occupational diseases have been found. During the years of 2018 and 2017, the Group has had no work-related fatality. The number of lost days from works due to work-related injuries was 125 in 2018 (2017: 134).

Production safety is of utmost importance to the Group. A comprehensive set of guidelines and operating procedures has been set up to ensure all operations are safe in production sites of the Group. Besides, the Group unabatedly improves its protective facilities and enhances automated production as well as regularly revises and updates certain guidelines and policies in relation to safe production in order to minimise the probability of work-related accidents or injury. During the year, Weifang Parasia newly acquired Safety Instrumented System particularly for the treatment of hazardous chemicals in order to improve the safety level in the production process. Besides, a dual prevention mechanism of the safety risk grading management and the safety hidden danger investigation and management is well established which is implemented by the Group as part of stringent efforts to monitor and control major sources of hazards. In 2018, Weifang Parasia and Weifang Binhai have carried out a total of 12 times (2017: 35 times) of in-depth potential safety hidden danger inspections and uncovered certain potential safety threats which were rectified immediately.



## 社會

### 健康與安全 (續)

除此之外，本集團制定了全面的「重大安全環境因素應急預案」，以有效管理、糾正和防範重大安全環境變化。按照「重大安全環境因素應急預案」，於二零一八年，安全、健康及環境部分別在濰坊柏立和濰坊濱海的生產場地進行了23次及10次（二零一七年：26次及12次）預演，從而提高全體員工的安全環境應急能力。

本集團的安全培訓按持續形式安排，亦加強了對承建商的安全管理，從而進一步提高營運管理水平。於建設工程項目開展前，本集團會先與承建商/供應商簽訂安全協議，並指示供應商必須遵守有關安全規則。於施工過程中，安全、健康及環境部會對承建商進行監督及提供現場安全培訓。另外，與供應商簽訂的若干採購協議也載有有關安全管理和環境保護的條文。同時，為了員工和訪客的安全，安全、健康及環境部向他們提供安全須知，並規定在進入本集團的生產場地時須佩戴安全帽。

此外，以下所有措施均在工作場地執行：

- 採用先進的生產技術以減少產生的粉塵；使用高效過濾除塵器；安裝吸塵裝置及通風設施；定期為員工提供防塵口罩。

## SOCIETY

### Health and Safety (Continued)

Apart from that the aforesaid, the Group developed a comprehensive “Significant Safety and Environmental Factors Contingency Plan” to manage, correct and prevent any significant safety and environmental changes effectively. In accordance with “Significant Safety and Environmental Factors Contingency Plan”, SHE performed drills for 23 times and 10 times in the production sites of Weifang Parasia and Weifang Binhai (2017: 26 times and 12 times) respectively during the year of 2018 so as to improve safety and environmental emergency response capacity of all employees.

The Group’s safety training is arranged on a continuous basis, and safety management imposed on subcontractors is enhanced so as to further improve our level of excellence in operation management. Prior to the commencement of construction projects, the Group enters into safety agreements with contractors/suppliers and instructs them to comply with relevant safety regulations. In the course of constructions, SHE supervises and provides on-site safety trainings. In addition, certain procurement agreements entered with suppliers also contain provisions in relation to safety management and environmental protection. Meanwhile, for the safety of employees and visitors, SHE provides safety notes to them and they are required to wear safety helmet when entering the production sites of the Group.

In addition, all the following measures are implemented in the workplace:

- To adopt advanced production technology to reduce the amount of dust generated; use of efficient dust filter ; install of dust removal device and ventilation facilities, provide dust masks to employees on regular basis.





## 社會

### 健康與安全 (續)

- 如涉及有毒物質，僱員必須使用防護裝備。生產過程將採取封閉的管道式自動運輸設施，而儲存有毒物質嚴格按照「五雙管理」處理。
- 提供足夠的教育、培訓和詳細的操作手冊，以保障安全工作，並加強員工的健康及安全意識和處理緊急情況的能力。在現場工作之前，將為專門操作崗位提供額外的實踐培訓。
- 設立相應的應急救援設施，於二零一七年新建 4,000m<sup>3</sup> 地下自流式事故應急池，取代 2,000m<sup>3</sup> 地上事故應急池。濰坊柏立生產廠房亦配備 8 吨泡沫裝置的消防車備用以及濰坊濱海生產廠房建立緊急淋浴間。
- 採用低噪音設備、吸音技術、配備噪音防護裝備，並採用減聲裝置以消除、降低和控制噪音和震動。
- 通過採用先進的生產技術、安裝隔熱處理、通風和冷卻措施、提供冷飲和相應的保護設備，以及提供治療中暑的備用藥物，從而降低溫度。
- 在實驗室、操作室及辦公室等室內環境提供空調。

## SOCIETY

### Health and Safety (Continued)

- In case toxic materials is involved, employees must use protective equipment. The production process will be carried out in closed, piped, and automated transport facilities, and storage of toxic materials with strictly comply with "five pairs of management".
- To provide adequate education, training and detailed operations manual to protect work safety and strengthen employees' health and safety awareness and ability to handle emergency situations. Additional practical training will be provided for specialised operations before commencement of working at the sites.
- To establish relevant emergency rescues facilities, a 4,000m<sup>3</sup> underground self-flowing accident emergency pool was newly built in 2017 to replace the 2,000m<sup>3</sup> aboveground accident emergency pool. A fire engine equipped with 8 tonnes foam is on standby in the production site of Weifang Parasia and emergency shower rooms are built in the production site of Weifang Binhai.
- To adopt low noise facilities and sound absorption technology, provide noise protection equipment and use noise cancellation equipment to eliminate, reduce and control noise and vibration.
- To reduce heat by adoption of advanced production technology, installation of heat insulation treatment, ventilation and cooling measures, provision of cold drinks and corresponding protective equipment, and standby drugs to treat heat stroke.
- To provide air conditioning in indoor environment such as laboratories, operating rooms and offices.





## 社會

### 健康與安全 (續)

- 在生產車間設置供暖設施，並在冬季期間加強室內保溫，防止熱量流失。
- 持續改進和提升安全儀表系統，以應對較高風險的生產工藝。

本集團通過制定年度職業衛生培訓計劃，加強職業健康培訓，為不同類別的員工提供切合所需的培訓。

本集團運用「職業健康管理系統」定期填報員工健康體檢信息，加強對員工健康狀況的監測和管理，同時提升職業健康的管理水平。本集團對衛生安全進行定期檢查和管理，以確保政策和措施有效。

除法定保險外，本集團還購備僱主責任保險和安全生產責任保險，於發生事故時向員工提供額外保障。

於二零一八年和二零一七年，本集團均並不知悉有任何不遵守有關健康及安全的相關法律及法規。通過推動和實施安全生產、明確工作職責及定期召開安全審查會議，本集團於二零一八年及二零一七年年內均無發生有害化學品洩漏事故、火災、爆炸、環境污染或直接導致重大損失責任的其他事故。

## SOCIETY

### Health and Safety (Continued)

- To set up heating facilities in the production lines and enhance indoor insulation to prevent heat loss during winter time.
- To consistently improve and upgrade safety instrumented system to address higher risk production process.

The Group's occupational health training is enhanced by formulating annual occupational hygiene training scheme under which tailored trainings are provided for different categories of employees.

The Group used the Occupational Health Management System to fill and report information from health check-ups of employees regularly so as to enhance the monitoring and management of employee's health status as well as raise the management standards for occupational health. Regular inspections and management review of health and safety have been performed by the Group to ensure the effectiveness of the policies and measures.

In addition to statutory insurance coverage, the Group has also enrolled Employer's Liability Insurance and Safety Production Liability Insurance to provide extra protection to the employees in case of accident.

In both 2018 and 2017, the Group was not aware of any non-compliance with relevant laws and regulations relating to health and safety. Through promoting and implementing safety production, clearly defining job responsibilities and holding regular review meetings relating to safety, the Group had no recorded incident of leakage of hazardous chemicals, fire, explosion, environmental pollution or any other types of liability-incurring incident that caused a substantial direct loss during the years of 2018 and 2017.



## 社會

### 發展及培訓

本集團堅信人才的可持續發展是企業長青之基石。本集團因而非常重視僱員發展及培訓工作，並關注僱員不同階段的發展需求。本集團還制定了「僱員培訓管理政策」，為僱員建立成長晉升平台，並提供各種培訓，例如在職培訓、勞動力素質培訓、學徒培訓和團隊合作等。本集團並根據僱員的能力為其提供前瞻性培訓課程及安排行業考察以拓寬技能和視野，從而協助他們實現事業發展和個人成長，使其最終成為本集團的寶貴資產。

新聘員工獲提供在職培訓，以協助彼等熟悉本集團的文化、業務和營運。此外，就技術職位而言，每位新聘僱員均會接受職前技術培訓，以提高與工作相關的專業技能。

於二零一八年，每位僱員均完成了平均超過 55 小時（二零一七年：超過 55 小時）的內部培訓，超過 180 名員工（二零一七年：超過 170 名員工）參加了由外部專業人士舉辦的培訓課程。

### 勞工準則

本集團致力保護僱員的合法權益，嚴禁聘用童工及強制勞工，並承諾創造尊重人權的工作環境。

## SOCIETY

### Development and Training

The Group firmly believes that sustainable talent development is the cornerstone for the long-lasting development of an enterprise. Hence, the Group places great emphasis on employees' development and training and takes care of the development needs of employees at various stages. The Group also formulated Employee Training Management Policy whereby a growth and promotion platform has been developed and various kinds of trainings will be provided to employees such as on-the-job training, workforce quality training, apprenticeship and team-building etc.. The Group also provided prospective training courses to employees based on their abilities and arranged industry visitation to broaden their skills and visions thereby assisting them in achieving career development as well as personal growth so that eventually they will become valuable assets to the Group.

New employees are provided with on-board trainings to help them familiarise with the culture, business and operations of the Group. In addition, for technical positions, every newly-hired employee will be provided with pre-job technical training to enhance the professional skills associated with the job.

During the year of 2018, over 55 hours in average (2017: over 55 hours) of in-house trainings were completed per employee (2017: over 55 hours per employee) and over 180 employees (2017: over 170 employees) have attended training courses organised by external professional parties.

### Labour Standards

The Group is dedicated to protecting the legitimate interests of its employees, strictly prohibiting the employment of children and forced labour and is committed to creating a work environment which respects human rights.



## 社會

### 勞工準則 (續)

本集團嚴格遵守「中華人民共和國勞動法」、「禁止使用童工規定」及中國其他相關法律法規。為了防止童工，招聘過程中需要申請人的身份證件進行年齡驗證。工時、休假及假期均符合當地有關的勞動法規。僱員不得強制超時工作，並根據當地法規有權收取超時工資。

### 供應鏈管理

本集團重視與供應商的夥伴關係，並深化與他們的協作關係，以確保有效管理和其產品達質量標準。因此，本集團不斷優化和改善供應商管理制度，與供應商攜手合作，促進彼等所處行業的可持續發展。

本集團重視與供應商的溝通，包括於日常工作持續與供應商溝通，通過技術支援和行業的競爭優勢與供應商建立策略性合作關係，實現雙贏和加強合作。

## SOCIETY

### Labour Standards (Continued)

The Group strictly complies with the Labour Law of the PRC, Provisions on the Prohibition of Using Child Labour and other relevant laws and regulations in the PRC. In order to prevent child labour, the identity documents of the applicants are required for age verification during the recruitment process. The working hours, rest and holidays are in line with the relevant local labour laws and regulations. Employees are not forced to work beyond working hours and are entitled to overtime pay in accordance with local regulations.

### Supply Chain Management

The Group values partnership with suppliers and deepens the collaborative relationship with them to ensure effective management and quality standards of its products. Thus, the Group continuously optimises and improves the supplier management system and works together with suppliers to promote sustainable development of the industries in which they operate.

The Group values communication with suppliers, including continuous communication with suppliers in routine work and establishing strategic cooperation with suppliers through technical support and competitive advantage in the industry, which can achieve win-win situation and strengthen the cooperation with each other.



## 社會

### 供應鏈管理 (續)

本集團已設立跨部門團隊，負責造訪供應商、實地檢查、監督、評估、認定和取消供應商的資格，並不斷提高本集團供應鏈管理的專業水平和透明度。為了保證供應商的產品和服務質量，供應商的評估在每年或每季進行，主要包括評估供應商的背景、資歷、服務質素控制、財務狀況、過去相近類型服務的表現、合同履約、項目團隊的專業性、企業誠信及社會責任等。評估結果確定供應商是否合資格，那些最終未能達到要求的供應商將從認可供應商名單中刪除。

本集團只聘用合資格的運輸公司運送有害化學品。運輸公司必須接受定期培訓，以提高從業員的安全意識。運輸公司、駕駛員、裝卸技術人員和押運員均會接受嚴格審查和評估。車輛必須定期檢修，確保運送途中不會出現滴漏。

## SOCIETY

### Supply Chain Management (Continued)

A cross-department team has been established and is responsible for interviewing, site-inspection, supervision, evaluation, recognition and disqualification of suppliers, and constantly increasing specialisation and transparency of supply chain management of the Group. In order to secure the quality of products and services from suppliers, an evaluation of suppliers is conducted annually or quarterly, which mainly includes evaluation of the background, qualification, quality control of service, financial status, past performance in similar service, fulfillment of contract, professionalism of project team, corporate integrity and social responsibility of the suppliers. The evaluation results will determine whether the supplier is qualified or not, and those suppliers which failed to meet the requirements ultimately will be removed from the approved suppliers list.

The Group only engages qualified transport companies to deliver hazardous chemical products. The transport companies must receive regular training to improve the safety awareness of the practitioners. Transport companies, drivers, loading and unloading technicians and escorts are subject to a rigorous review and assessment. The trucks must be inspected and maintained regularly to ensure that no dripping happens during transportation.



## 社會

### 產品責任

提供優質的產品和服務是本集團可持續發展的主旨。本集團的目標是所提供的全部產品和服務均達到其最高標準。本集團已建立並不斷完善品質管理制度，而濰坊柏立及濰坊濱海的品質管理制度更已通過 ISO9001 認證。本集團亦已制定若干政策及措施以涵蓋產品或服務質量保證、安全、公平廣告和售後服務，確保政策及措施符合相關法律法規。

本集團非常重視產品和服務的質素和安全，並已確立不同類型產品和服務的相關質素和安全檢查政策。從原材料到成品整個工作流程中均進行各種檢驗、測試和取樣。產品的存儲和交付均符合所有當地及國際相關的安全標準。本集團大部份產品已獲得歐盟監管的「關於化學品註冊、評估、許可和限制」通過及註冊。本集團亦與客戶建立密切聯繫。

本集團採用有效的質量控制體系以不斷提高其產品質量。所有產品出廠前均經過樣品測試，以確保只有優質的產品才能交付給客戶。如客戶不滿產品或服務的質素及安全，有足夠的途徑及專責員工可供客戶溝通，力求盡快解決他們的問題。

## SOCIETY

### Product Responsibility

Delivering quality products and services is a main theme of the sustainable development of the Group. The Group aims to achieve its highest standard for all the products and services provided. The Group has established and continuously improves its quality management system, especially the quality management systems of Weifang Parasia and Weifang Binhai are certified by ISO9001. The Group has also formulated certain policies and measures to cover product or service quality guarantee, safety, fair advertising and after-sale services in order to ensure such policies and measures comply with relevant laws and regulations.

The Group pays close attention to the quality and safety of its products and services. Relevant quality and safety inspection policies for different type of products and services have been set up. Various type of inspections, testings and samplings are conducted throughout the workflows from raw materials to finished goods. Products storage and delivery are complied with all relevant local and international safety standards. Most of the products of the Group have passed and registered under "Registration, Evaluation, Authorisation and Restriction of Chemicals" ("REACH") governed by the European Union. The Group also has established a close connection with its customers.

The Group adopts an effective quality control system to keep improving its product quality. All products are subject to sample tests before leaving the factory to ensure that only quality products are shipped to the customers. If the customers are not satisfied with the quality and safety of the products or services, sufficient channels and designated staffs are available for customers to communicate and resolve their issues as soon as possible.



## 社會

### 產品責任 (續)

本集團規定向客戶所提供有關本集團產品的所有資料均應準確無誤。客戶可透過電話熱線和電子郵件查詢產品和服務詳情，以提供更好的售前和售後服務。本集團定期向客戶進行問卷調查以瞭解他們的滿意程度，調查結果將作分析，以採取相應的改進。

本集團一直重視知識產權的有效管理。本集團獲得若干生產技術的版權登記證，從而通過法律途徑保障本集團的無形資產。

於二零一八年和二零一七年，本集團均無收到任何監管機構或客戶就有關產品質素及安全、知識產權和數據私隱方面的投訴，也沒有因產品安全或健康問題而回收任何產品。二零一八年及二零一七年的銷售退貨比率分別為 0.008% 和 0.006%。

本集團十分尊重客戶的私隱，在日常運營中嚴格遵守客戶資料保密準則以確保客戶資料安全。本集團各附屬公司亦根據本身業務的特點制定相應的私隱政策，並明確設定處理客戶資料的程序。新入職員工須簽訂員工保密協議，承諾將客戶資料保密，嚴禁以任何形式洩露資料。

## SOCIETY

### Product Responsibility (Continued)

The Group stipulates that all information provided to its customers regarding the Group's products should be accurate and true. Hotlines and e-mails are also available for customers' enquiries on products and service details in order to provide better before-and-after-sale services. The Group conducts regular customer surveys to understand their satisfaction level. Survey results are subject to analysis and corresponding actions will be made accordingly.

The Group always values the effective management of intellectual property. The Group obtained several copyright registration certificates for its productions technologies so as to protect the intangible assets of the Group by legal means.

In both 2018 and 2017, the Group had not received any complaints from the regulatory bodies or customers regarding product quality and safety, intellectual property rights, and data privacy, nor had it recalled any product due to product safety or health issues. Sales return rates of 2018 and 2017 were 0.008% and 0.006% respectively.

The Group highly respects client privacy and strictly complies with the code of client information privacy in its daily operation, so as to ensure the security of such information. Each of the Group's subsidiaries has also set up relevant privacy policies corresponding to the characteristics of its respective business and defined procedures for handling client information. New employees are required to sign and adhere to the Staff Confidentiality Agreement, whereby the employees undertake to keep client information confidential, and divulgence of information in any format is strictly forbidden.

## 社會

### 反貪污

本集團於營運中全面提倡誠信行事，防止不道德的行為，對腐敗或賄賂採取零容忍態度。本集團嚴格遵守反貪污、賄賂、勒索、欺詐行為和洗錢的法律法規。本公司已制定舉報政策，並鼓勵員工報告任何可疑的商業違規行為。如認定出現涉嫌違反職權、濫用權力、受賄等情況時，員工應向董事會報告以進行調查及查證，並在有必要時向監管機構及/或執法機關舉報。於二零一八年和二零一七年，本集團均無涉及任何與貪污有關的訴訟，亦無有關其員工參與貪污事件的投訴。

## 社區

本集團十分關注當地社區運作聯繫，並積極參與各種社區關懷活動，並主動瞭解所在社區的需求。本集團努力確保其業務發展可同時促進社區利益，並與社會保持良好關係。

本集團多年來一直關注社區的扶貧、教育、慈善及就業事務，並積極透過不同方式投資社區，包括公益事業、服務社區建設、捐資助學等。本集團旨在建立和諧共融的社區關係，與社群及公眾共享可持續發展的價值。

## SOCIETY

### Anti-corruption

The Group promotes integrity and prohibits unethical pursuits throughout its operations and zero tolerance on corruption or bribery in any means. The Group strictly complies with laws or regulations relating to anti-corruption, bribery, extortion, fraudulent behaviour and money-laundering. The Company has set up whistleblowing policy and employees are encouraged to report any suspicious business irregularities. When suspected wrongdoings are identified, such as breach of duty, abuse of power, receiving bribes, employee should report to the Board for investigation and verification, and report to the regulator and/or to law enforcement authority as and when necessary. In both 2018 and 2017, the Group had not been involved in any litigation related to corruption, and there had been no complaints about the involvement of its employees in corruption cases.

## Community

The Group pays great attention to the bonding of local community operation. The Group actively participates in a variety of community care activities and takes initiatives to understand the needs of the community in which it operates. The Group put efforts to ensure that its business development simultaneously promote community interest and maintain a good relationship with the community.

The Group has been focusing on the poverty alleviation, education, charity and employment of the community for years. The Group invests in the community through various means actively, including active participation in charitable works, rendering service to community building, making donations and providing aids for students. The Group aims to build a harmonious community relationship and share the value of sustainable development with the community and the public.

## 社會

### 社區 (續)

如出現職位空缺，本集團會優先考慮業務所在社區的合資格人選。通過協助解決當地的就業問題，本集團與當地社區攜手共同發展。

## SOCIETY

### Community (Continued)

When there is any job vacancy, the Group would give priority to eligible candidates in the community where it operates. By helping address employment issues, the Group joins hands with the local community to achieve joint development.



於二零一八年，濰坊柏立向(i) 濰坊春雨社區義工公益服務中心捐款；(ii) 濰坊經濟開發區文化教育局捐贈圖書；及(iii) 捐贈大宗物資一批如棉被等到濰坊市壽光洪澇災區。

In 2018, Weifang Parasia has made: (i) donation to Weifang Chunyu Volunteer Community Service Center; (ii) donation of books to Culture and Education Bureau of Weifang Economic Development Zone; and (iii) donation of bulk materials such as quilts to the flooding area in Shouguang, Weifang City.





**天德化工控股有限公司**  
**Tiande Chemical Holdings Limited**

香港中環夏慤道12號美國銀行中心 22 字樓 2204A 室  
Room 2204A, 22nd Floor, Bank of America Tower,  
12 Harcourt Road, Central, Hong Kong