广西喷施宝股份有限公司
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2021
社会责任报告

SOCIAL RESPONSIBILITY
REPORT

广西喷施宝股份有限公司
GUANGXI PENSHIBAO CO., LTD.

We Support

SOCIAL RESPONSIBILITY REPORT

社会责任报告

2021

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关于本报告
About the Report

本报告是广西喷施宝股份有限公司（以下简称为“喷施宝公司”或“公司”）自2007年加入联合国全球契约组织以来，向有关机构报送和社会公开发布的第14份社会责任报告。报告真实、客观地总结和反映了公司2021年度在履行社会责任的实践与成效。

This report is the 14th social responsibility report submitted by Guangxi Penshibao Co., Ltd. (hereinafter referred to as "Penshibao Company" or "The Company") to relevant institutions and released to the public since The Company’s entry into the UN Global Compact Outfit in 2007. The report truly and objectively summarizes and reflects The Company's practice and effectiveness in fulfilling social responsibilities in 2021.

本报告依据全球报告倡导组织（GBI）的《可持续发展报告指南》相关要求，结合公司实际情况进行编制，时间跨度为2021年1月1日至2021年12月31日。报告经公司董事会审议通过。

This report has been compiled in accordance with the relevant requirements of Sustainability Reporting Guidelines of Global Reporting Initiative (GRI) and combining the actual situation of The Company with the time range from 1 January 2021 to 31 December 2021. The report was reviewed and approved by The Company's Board of Directors.

董事长致辞
ADDRESS FROMTHE CHAIRMAN

2021年，新冠肺炎疫情跨入第二年，受益于中国的社区管理制度优势及政府的“动态清零”防控政策，中国内地已经基本上控制住新冠肺炎疫情或整体可控，为企业的复工和经济复苏提供了可靠稳定的保证。

In 2021, the COVID-19 epidemic entered its second year. Thanks to the advantages of China’s community management system and the government’s “dynamic zero-clearing” prevention and control policy, the mainland of China has basically controlled the COVID-19 epidemic or the whole is controllable, which provides a reliable and stable guarantee for enterprises to resume work and recover economy.

一年来，在上级党委及政府的领导下，喷施宝公司各项工作稳步推进，依靠国家政策，在渠道建设、项目拓展、振兴乡村、可持续农业等方面取得可喜的成绩，切实履行企业社会责任，为中国共产党建党100周年庆典交上了一份满意的答卷。

Over the past year, under the leadership of the Party Committee and government at a higher level,Penshibao

Company has made steady progress in all its work. Relying on national policies, it has made gratifying achievements in channel construction, project expansion, rural revitalization and sustainable agriculture, earnestly fulfilled its corporate social responsibility, and handed in a satisfactory answer for the 100th anniversary of the founding of the Communist Party of China (CPC).

一年来，公司管理层及部门框架进一步优化，渠道建设和项目管理成效显著，内部管理规范化，国内市场快速恢复，国际市场受疫情影响严重。公司继续深化与农业农村部耕保中心和各大农业院所的合作，“土壤修复改良、降解农药残留、发展富硒产业”三大技术服务，为食品安全提供坚实技术支撑；土壤修复改良项目受到各级地方政府的高度关注，合作前景不可估量；公司在广西及河南富硒项目合作得到深化，让老百姓吃好不再是梦；公司海洋生物资源再利用开发项目通过验收，绿色生产资料再获认证；向新疆地方政府捐赠振兴乡村农用物资；公司及产品均获“化肥减量增效”优秀企业和创新产品殊荣。公司上下以实际行动，深入学习习主席在建党100周年庆典上的重要讲话，不忘初心，牢记使命，以农为本，服务三农，振兴乡村。

Over the past year, the framework of the company’s management and departments has been further optimized, and the channel construction and project management have achieved remarkable results; in addition, the internal management has been standardized, the domestic market has recovered rapidly and the international market has been seriously affected by the epidemic. The company continues to deepen its cooperation with the Cultivated Land Protection Center of the Ministry of Agriculture and Rural Affairs and major agricultural institutes, and provides three technical services of “soil remediation and improvement, degradation of pesticide residues and development of selenium-rich industries” to provide solid technical support for food safety; soil remediation and improvement projects are highly concerned by local governments at all levels, and the prospect of cooperation is immeasurable; the company’s cooperation in selenium-enriched projects in Guangxi and He’nan has been deepened, and it is no longer a dream for ordinary people to eat well; the company’s marine biological resources reuse development project has passed the acceptance, and the green production materials are certified again; the company has donated rural agricultural materials to local governments in Xinjiang to revitalize rural areas; the company’s products have won the honor of “Fertilizer Reduction and Efficiency Increase” Outstanding Enterprise and Innovative Product. With practical actions, the whole company thoroughly studies President Xi’s important speech at the celebration of the 100th anniversary of the founding of CPC, never forgets the initiative mind, keeps the mission in mind, takes agriculture as the foundatio.

2022年，全球新冠肺炎疫情仍在蔓延，世界经济复苏缓慢，气候变化挑战突出。公司将在董事会的率领下和全体员工的共同努力下，夯实基础，全力服务“三农”，为农业生产提供各类农产品生产资料，粮食安全和保障农民增产增收，为推动中国乡村振兴、可持续农业的发展作出新的贡献。

In 2022, the global COVID-19 epidemic is still spreading, the world economy is recovering slowly and the challenge of climate change is outstanding. Under the leadership of the Board of Directors and the joint efforts of all employees, the company will lay a solid foundation, fully serve “agriculture, rural areas and farmers”, provide all kinds of agricultural production materials for agricultural production, ensure food security and increase farmers’ production and income and make new contributions to promoting rural revitalization and sustainable agricultural development in China.

集团董事长：

Group Chairman:Wang Xiang Lin

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公司简介
COMPANY PROFILE

公司创建于1985年，是集研发、生产、销售和服务为一体的水溶肥料国家高新技术企业、有机叶面肥国家标准起草单位和联合国全球契约组织成员企业；是中国较早注册的叶面肥生产厂家和较大的叶面肥生产基地。

Founded in 1985, the company is a national high-tech enterprise of water-soluble fertilizer, a drafting unit of national standard of organic foliar fertilizer and a member enterprise of the United Nations Global Compact Organization, which integrates R&D, production, sales and service. It is an earlier registered foliar fertilizer manufacturer and a larger foliar fertilizer production base in China.

公司创立30多年来，喷施宝一直遵循“服务农业、造福人类”的宗旨和“以农为本，低碳环保”的理念，坚持履行企业社会责任，坚持绿色健康发展道路，引领行业走减少化肥农药使用量、土壤污染修复治理、农药降解残留和富硒健康种植道路，与国家农业农村部全国农业技术推广服务中心、耕地质量监测保护中心、中国农业大学、湖南农业大学、华中农业大学和福建农林大学等机构院所紧密合作，在全国30多个省（直辖市、自治区）进行广泛的试验示范和机理研究，在绿色健康种植、环境保护和可持续农业发展方面做出了突出贡献。

公司主打产品-“喷施宝-多功能营养型叶面肥”，自公司成立伊始，以其5毫升产品为标志的神奇功效，响誉全球，并出口东南亚、南美、北美、非洲等20多个国家和地区，被誉为“中华神水”和“中华肥王”。喷施宝商标，曾被誉为“中国农业第一品牌”，被评为“中国驰名商标”，在45个马德里协定国注册。

The company’s flagship product - “Penshibao - multifunctional nutritional foliar fertilizer”, since the establishment of the company, has gained a worldwide reputation for its magical effect of 5ml products, and has been exported to more than 20 countries and regions such as Southeast Asia, South America, North America and Africa, and is known as “Chinese God Water” and “King of Chinese Fertilizer”. Penshibao trademark, once known as “China’s first agricultural brand”, was rated as “China’s well-known trademark” and registered in 45 Madrid countries.

公司多次荣获国内外奖项及荣誉称号，如国家知识产权优势企业、广西乡镇企业出口创汇先进单位、全国乡镇化工百强企业、全国乡镇化工先进企业、第21届日内瓦国际博览会金奖、法国阿维尼翁第72届国际农业博览会金奖等。

The company has won many awards and honorary titles at home and abroad, such as National Intellectual Property Advantage Enterprise, Guangxi Township Enterprise’s Advanced Export Unit, National Top 100 Township Chemical Enterprises, National Township Chemical Advanced Enterprise, the 21st Geneva International Expo Gold Award, the 72nd International Agricultural Expo in Avignon, France, etc.

自公司加入全球契约以来，喷施宝公司高度认同全球契约十项原则和践行契约精神，积极承担企业的社会责任，并落实到企业管理。从节能环保、清洁办公、性别平等，到精准扶贫、与利益相关方对接等，公司诚信管理、诚信经营，彰显中国非公经济的高度社会责任感。

Since the company has joined the Global Compact, Penshibao Company highly agrees with the ten principles of the Global Compact and practices the spirit of the Compact, and actively undertakes corporate social responsibility and implements it in enterprise management. In energy conservation and environmental protection, clean office, gender equality, accurate poverty alleviation and connection with stakeholders, the company’s integrity management and integrity management demonstrate the high sense of social responsibility of China’s non-state-owned economy.

企业宗旨：健康环保　造福人类

Corporate Tenet: Healthy and Environmentally-friendly, Benefit the Human.

企业理念：以农为本　低碳环保

Corporate Concept: Agriculture-oriented, Low-carbon Life

企业精神：和谐诚信　勤奋创新

Corporate Spirit: Harmonious, Honest, Diligent and Innovative

管理目标：执行沟通　求实节俭

Management Objectives: Implement, Communicate, Practical and Frugal

质量目标：安全高效　保质保量

Quality Objectives: Safe, Efficient, Quality and Quantity Assured

市场目标：立足国内　放眼世界

Market Objectives: Standing on China, Embrace the World

公司2021年纪事
Company Events in 2021

01 2021年1月14日 广西自治区农业厅徐世宏二级巡视员一行来访

January 14, 2021 Xu Shihong, the second-class inspector from the Agriculture Department of Guangxi Autonomous Region, and his party visited

02 2021年1月24日《赢在中国》：《一面高高飘扬的旗帜》，公司创始人及董事长王祥林先生专访出版；《企业家日报》编

January 24, 2021Winning in China: A Flag Flying High, published by Mr. Wang Xiang Lin, the founder and Chairman of the company; compiled by Entrepreneur Daily

03 2021年2月5日 北海海城区党委常委统战部部长、工商联领导一行莅临指导工作

February 5, 2021 The head of the United Front Work Department of the Standing Committee of the Party Committee of Haicheng District, Beihai, and the leaders of the Federation of Industry and Commerce came to guide the work

04 2021年3月10日 北海海城区工商联全体会员企业交流活动

March 10, 2021 Exchange activities of all member enterprises of Haicheng District Federation of Industry and Commerce in Beihai

05 2021年3月19日 公司党支部召开2020年度组织生活会和民主评议党员工作会议

March 19, 2021 The Party branch of the company held the 2020 annual Party criticism meeting and democratic appraisal of Party members

06 2021年3月27日 大兴安岭农工商联合公司一行来访

March 27, 2021 Daxing'anling Agriculture, Industry and Commerce United Company visited the company

07 2021年5月9日 喷施宝公司喜获“化肥减量增效优秀示范企业”和“化肥减量增效创新产品”大奖

May 9, 2021 Penshibao Company won the award of “Excellent Demonstration Enterprise for Reducing Fertilizer Efficiency” and “Innovative Product for Reducing Fertilizer Efficiency”

08 2021年6月10日 公司组织ISO质量和环境管理体系审核

June 10, 2021 The company organized the audit of ISO quality and environmental management system

09 2021年6月24日 中山大学地球环境与地球资源研究中心主任、教授，广东省十届、十一届政协常委，广东省决策顾问委员会委员周永章教授莅临喷施宝考察指导低碳环保、碳中和等相关工作

June 24, 2021 Professor Zhou Yongzhang, the director and professor of the Earth Environment and Earth Resources Research Center of Sun Yat-sen University, member of the Standing Committee of the 10th and 11th CPPCC of Guangdong Province and member of the Decision Advisory Committee of Guangdong Province, came to Penshibao to inspect and guide low-carbon and environmental protection, carbon neutrality and other related work

10 2021年7月1日 喷施宝公司全体党员和员工在公司内共同观看中国共产党成立100周年庆祝活动视频直播

10. July 1, 2021 All Party members and employees of Penshibao Company watched the live video of the celebration of the 100th anniversary of the Communist Party of China (CPC) in the company.

11 2021年7月10日 “感党恩，跟党走”喷施宝公司举行学习习主席七一重要讲话座谈会

July 10, 2021 “Be Grateful to the Party and Follow the Party”, Penshibao Company held a lecture on learning President Xi’s important speech delivered on July 1.

12 2021年7月21日公司党支部书记刘东生出席“北海市海城区第十一届人民代表大会代表区工信局选区选举大会”

On July 21, 2021 Liu Dongsheng, the secretary of the Party branch of the company, attended the “Election Meeting of Industry and Information Bureau of the 11th People’s Congress of Haicheng District, Beihai City”

13 2021年8月4日 “生态肥料助力生态农业产品价值实现与乡村振兴座谈会”在京举行

August 4, 2021 The “Symposium on Eco-fertilizer Assisting the Value Realization of Eco-agricultural Products and Rural Revitalization” was held in Beijing

14 2021年8月17日 严防疫情 助推绿色环保农业发展 北海市海城区人民政府领导到公司调研

August 17, 2021 Prevent the Epidemic and Boost the Development of Green Agriculture The leaders of Haicheng District People’s Government of Beihai City visited the company for investigation

15 2021年9月13日 公司举办半年度工作会议

September 13, 2021 The company held the semi-annual work conference

16 2021年10月15日 北海市政协副主席石昆和北海市政协文化文史和学习委副主任覃勇来访

October 15, 2021 Shi Kun, the Vice Chairman of Beihai CPPCC, and Qin Yong, the Deputy Director of Culture, Literature and History and Learning Committee of Beihai CPPCC visited the company

17 2011年11月8日 北海市海城区苏矿峰区长一行来访

November 8, 2011 Su Kuangfeng, the head of Haicheng District, Beihai City, and his party visited the company

18 2021年11月8日 北海市海城区苏矿峰区长一行来访

November 8, 2021 Su Kuangfeng, the head of Haicheng District, Beihai City, and his party visited the company

19 被授予2021年度北海市海城区工商联医疗救助爱心企业

The company is awarded the 2021 Medical Assistance and Caring Enterprise by Haicheng District Federation of Industry and Commerce of Beihai City

《赢在中国》：《一面高高飘扬的旗帜》，公司创始人及董事长王祥林先生专访出版；《企业家日报》编

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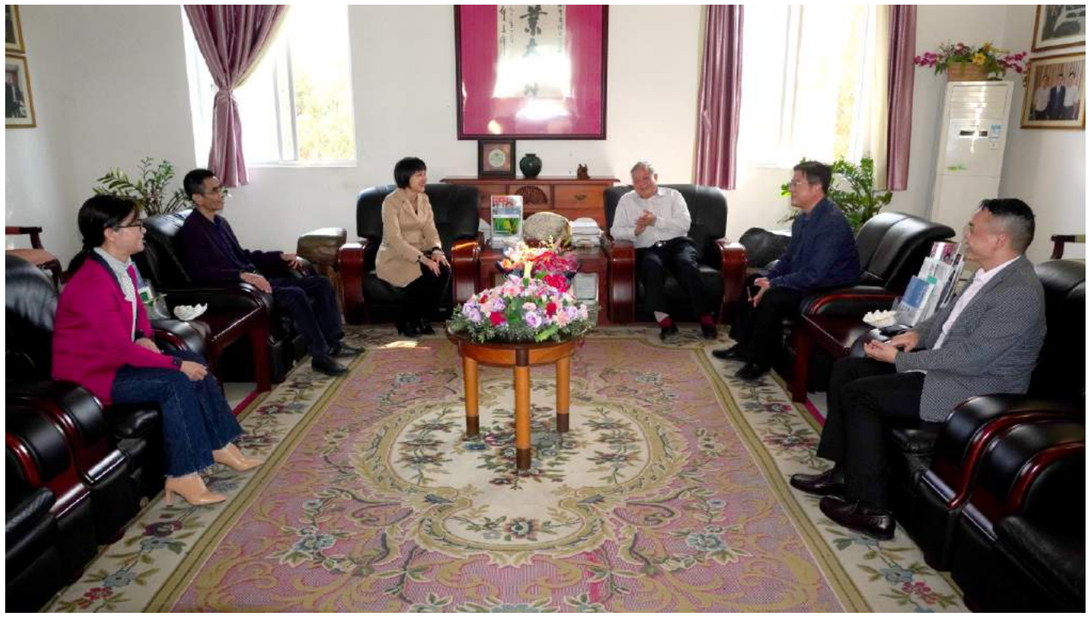
王祥林，广西喷施宝股份有限公司创始人、董事长，是改革开放涌现出来的科技型民营企业家，任全国政协第八至第十届全国委员，当选全国工商联常委、执委，广西工商联副会长，广西商会副会长，WAPS世界生产率科学院院士，获得中国“全国优秀企业家”“全国民族团结进步模范”“全国十佳优秀民营企业家”“西部大开发十大功勋人物”“新中国成立以来广西最具影响力的劳动模范”等荣誉，入选世界名人录，享受“国家有突出贡献的专家”政府津贴，多次受到党和国家领导人的亲切接见。广西喷施宝股份有限公司被认定为国家级高新技术企业，被确定为国家知识产权优势企业，加入联合国全球契约组织，是中国首家签署联合国食品与商业原则的农业公司。喷施宝获得“中国绿色科技创新成果奖”，成为中国水溶肥十大品牌、中国驰名商标。



北海海城区党委常委统战部部长、工商联领导一行莅临指导工作
The head of the United Front Work Department of the Standing Committee of the Party Committee of Haicheng District, Beihai, and the leaders of the Federation of Industry and Commerce came to guide the work

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March 10, 2021 Exchange activities of all member enterprises of Haicheng District Federation of Industry and Commerce in Beihai

2021.3.18市场监督管理局一行来访
A delegation from Beihai Administration for market regulation visited Penshibao Company

2021年5月9日 喷施宝公司喜获“化肥减量增效优秀示范企业” 和“化肥减量增效创新产品”大奖
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20210624中山大学地球环境与地球资源研究中心主任、教授，广东省十届、十一届政协常委，广东省决策顾问委员会委员周永章教授莅临喷施宝考察指导低碳环保、碳中和等相关工作

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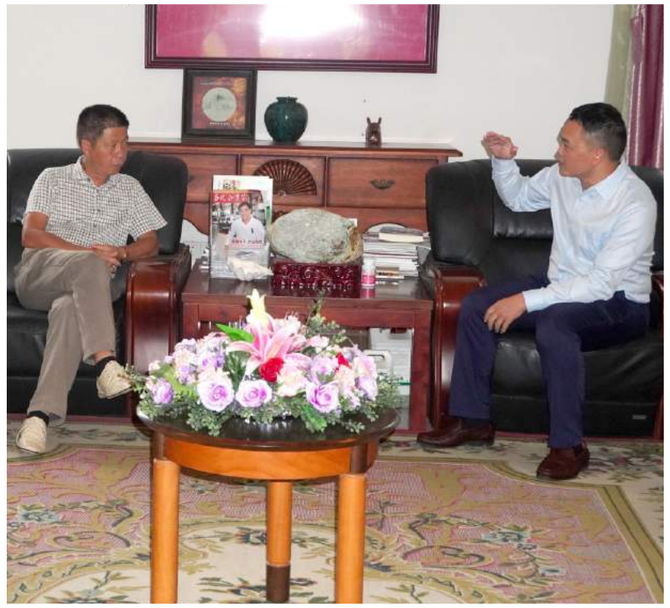
September 13, 2021 The company held the semi-annual work conference



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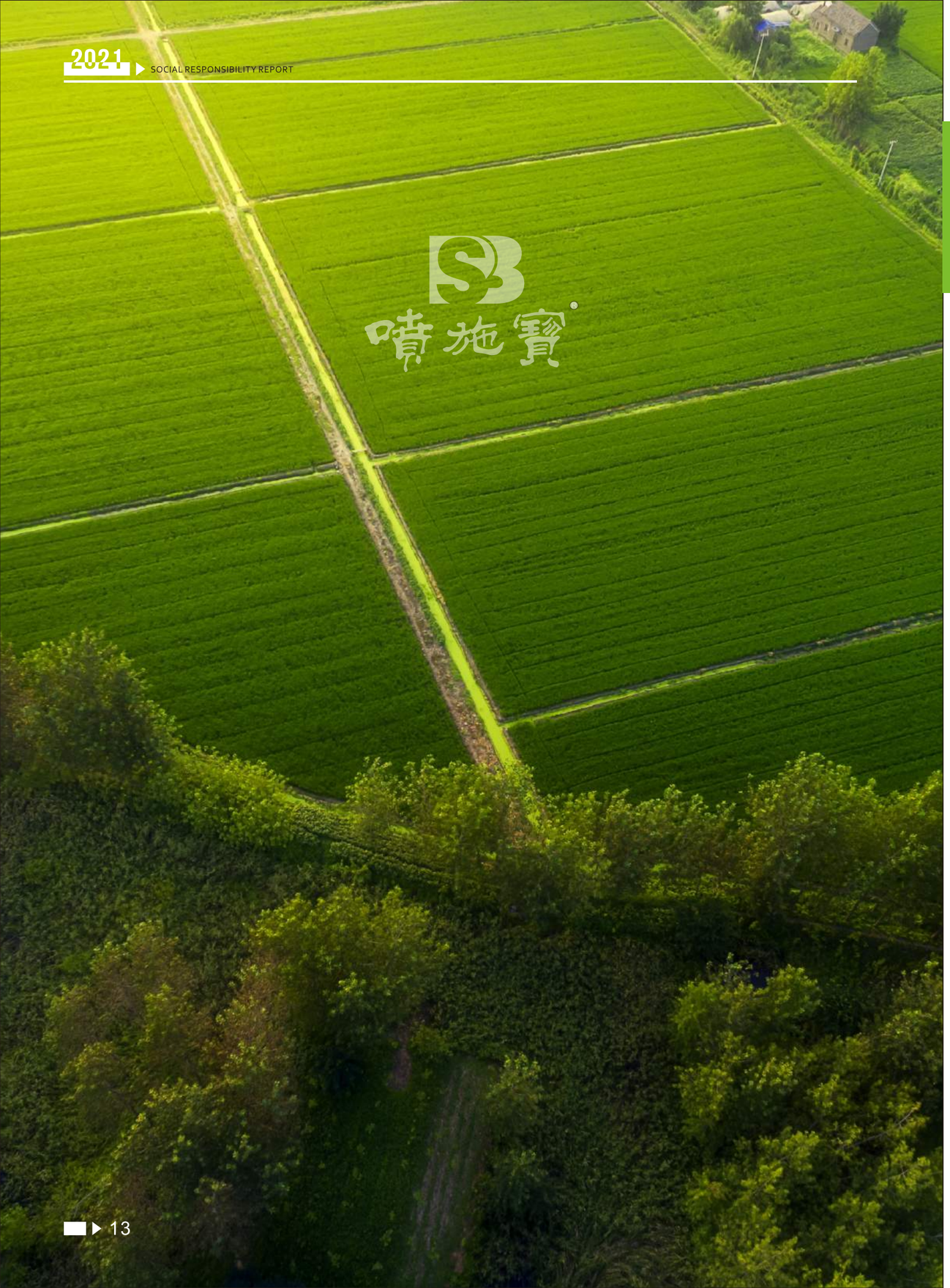
October 15, 2021 Shi Kun, the Vice Chairman of Beihai CPPCC, and Qin Yong, the Deputy Director of Culture, Literature and History and Learning Committee of Beihai CPPCC

2021年11月18日 北海市海城区统战部工商联领导到喷施宝考察调研项目工作
November 18, 2021 The leaders of the United Front Work Department Federation of Beihai City went to Penshibao to inspect the research



社会责任管理
SOCIAL RESPONSIBILITY MANAGEMENT

1. 修复改良土壤
Restore and improve the soil

土壤是人类家园赖以生存和发展的基础，也是全球生存环境难以再生的宝贵资源。过去几十年来，由于现代工农业　生的大气烟尘、工业废渣、垃圾污水对农田的侵袭，严重破坏了地球土壤的自然结构。在中国，由于农业生产中部分地区一度大量使用化肥和农药以及在不科学的土壤耕作管理模式下，重土壤使用，轻土壤保健，导致土壤污染加剧，有机成分缺乏，病虫害严重，作物产量低、品质差，严重影响农产品安全和人的健康。中国政府出台《土壤污染防治法》等多部政策法规，足以说明中国对治理和修复土壤的决心和信心。

Soil is the foundation for the survival and development of human homes, and it is also a precious resource that the global living environment is difficult to regenerate. In the past few decades, the natural structure of the earth’s soil has been seriously damaged due to the invasion of farmland by modern industrial and agricultural atmospheric smoke, industrial waste residue and garbage sewage. In China, a large number of chemical fertilizers and pesticides are once used in some areas of agricultural production, and under the unscientific soil farming management mode, soil use is emphasized over soil health care, which leads to the aggravation of soil pollution, lack of organic components, serious diseases and insect pests, low crop yield and poor quality, which seriously affects the safety of agricultural products and human health. Chinese government has issued many policies and regulations, such as the Law on Prevention and Control of Soil Pollution, which is enough to show China’s determination and confidence in soil treatment and restoration.

根据联合国教科文组织和粮农组织不完全统计，全世界盐碱地的面积为9.5438亿公顷，其中我国为9913万公顷。盐碱化耕地具有含盐量高、土壤板结、通气性不良、肥力水平低、保水保肥能力差的特点，不利于作物捉苗和正常生长，经济效益差。

According to the incomplete statistics of UNESCO and FAO, the area of saline-alkali land in the world is 954.38 million hectares, including 99.13 million hectares in China. Saline cultivated land has the characteristics of high salt content, soil hardening, poor ventilation, low fertility level and poor water and fertilizer retention ability, which is not conducive to crop seedling growth and normal growth, and has poor economic benefits.

喷施宝公司通过多年的研究与实践，在土壤治理与修复领域取得了一定成就，相关专利技术在业内处于领先地位，也得到了国家有关主管部门的肯定和认可。

Through years of research and practice, Penshibao Company has made certain achievements in the soil treatment and remediation. The related patent technology is in a leading position in the industry, and it has also been affirmed and recognized by the relevant national authorities.

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1、2018年至2021年间，公司在内蒙古、河北、山东、新疆等地区开展盐碱耕地土壤改良修复总面积达6万余亩，治理成效显著，同时喷施宝改良剂入选2022年内蒙古巴彦淖尔市农业生产盐碱地改良剂主推名录，在200多个厂家，300多个产品治理效果中排行前3位。2021年应用喷施宝土壤治理修复技术种植葵花、玉米、脆瓜、茼蒿，与常规施肥处理相比产量增加在59.25kg-1830.3kg/亩，增产率5.55%-31.49%，土壤有机质、全氮、速效磷、有效钾含量分别提高在0.11g/kg-0.96g/kg、0.01g/kg-0.09g/kg、0.08%、0.33%；土壤耕层盐分含量、pH值分别下降0.08-0.09g/kg、0.1-0.23，土壤中重金属含量明显降低。如果全球9.56亿公顷盐碱地全面推广应用喷施宝修复改良技术，改良为优质耕地，可提升全球土地生产能力，解决饥荒、粮食问题。

From 2018 to 2021, the company carried out soil improvement and restoration of saline-alkali cultivated land in Inner Mongolia, Hebei, Shandong, Xinjiang and other regions, covering a total area of more than 60,000 mu, with remarkable treatment effect. At the same time, Penshibao modifier is selected into the main promotion list of agricultural production saline-alkali soil modifiers in Bayannur City, Inner Mongolia in 2022, ranking the Top 3 among more than 200 manufacturers and more than 300 products. In 2021, sunflower, corn, crispy melon and chrysanthemum were planted by Penshibao soil improvement and restoration technology. Compared with the conventional fertilizationtreatment, the yield was increased by 59.25kg-1830.3kg/mu, the yield increase rate was 5.55%-31.49%, the contents of soil organic matter, total nitrogen, available phosphorus and available potassium was increased by 0.11g/kg-0.96g/kg, 0.01g/kg-0.09g/kg, 0.08% and 0.33% respectively, the salt content and pH value of the topsoil was decreased by 0.08-0.09g/kg and 0.1-0.23 respectively, and the heavy metal content in the soil was decreased obviously. If the 956 million hectares of saline-alkali land in the world are comprehensively popularized and applied with Penshibao soil improvement and restoration technology, and improved into high-quality cultivated land, the global land production capacity can be improved, and the famine and food problems can be solved.

图一 喷施宝土壤修复组合对比试验作物生长情况
Fig. I Growth of Crops in Comparative Test of Penshibao Soil Remediation Combination

图二 喷施宝土壤修复组合对比试验
Fig. II Comparative Test of Penshibao Soil Remediation Combination

图四 喷施宝改良剂入选2022年巴彦淖尔市农业生产盐碱地改良剂主推名录

Fig. IV Penshibao Modifier Is Selected into the Main List of Agricultural Saline-alkali Soil Modifier in Bayannur City in 2022.

2022 年巴彦淖尔市农业　　生产盐碱地改良剂主推名录

名称	执行标准	配比含量	生产（经销）厂家名称
碳基复合土壤调理剂	NY3504-2019	有机质≥45.0% pH 5.5 钾≥4.0% 中微量元素≥1.0%	成都绿金生物科技有限责任公司
喷施宝改良剂	Q/P5B 01	有机质≥80 克/升 $N+P_2O_5+K_2O$≥100 克/升 Zn+B≥10克/升 pH≤4.0	广西喷施宝股份有限公司
优美柯-富美柯生物刺激素	Q/WD 003-2016	有机质含量≥120克/升 钾（以K_2O计）≥20克/升	陕西优美柯生物科技有限责任公司
优美柯—修美柯土壤修复剂	Q/YMK 003-2020	有机质含量≥120克/升 钾含量（以K_2O计）≥20克/升 铁含量≥2克/升	陕西优美柯生物科技有限责任公司
优美柯—郁美柯调理剂	NY1106-2010	腐植酸含量≥3.0% 氮含量≥18% 磷含量≥18% 钾含量≥18% Fe+Zn+Mn≥0.2% 小分子改性腐植酸+小分子酶解多肽≥5.0%	陕西优美柯生物科技有限责任公司
克碱王改良剂	Q/370500FD002-2020	有机络合酸45% 展着剂3% 渗透剂3%	内蒙古欣农发农业发展有限责任公司

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2、2021年在江苏、浙江、福建、广西、云南等地开展酸化耕地改良试验区，种植辣椒、黄瓜、沃柑、葡萄，施用喷施宝土壤改良剂效果显著。与常规施肥处理相比产量增加187.2kg-509kg/亩，增产率在4.98%以上，提升了土壤pH。土壤碱解氮、速效钾含量有显著提升，分别提升了15.70%和8.54%，同时增加土壤微生物活性和总群数量。

2. In 2021, in Jiangsu, Zhejiang, Fujian, Guangxi, Yunnan and other places, the acidification farmland improvement test area was developed and pepper, cucumber, ponkan and grape were planted, and the application of Penshibao soil modifier was effective. Compared with conventional fertilization treatment, the yield was increased by 187.2kg-509kg/mu, and the yield increase rate was over 4.98%, which improved the soil pH. The contents of alkali-hydrolyzable nitrogen and available potassium in soil increased significantly, by 15.70% and 8.54% respectively; at the same time, the soil microbial activity and total population number increased.

图五 酸化土壤改良处理前葡萄生长情况

Fig. 5 Grape Growth before Improvement of Acidified Soil

图六 酸化土壤改良处理后葡萄生长情况

Fig. 6 Grape Growth after Improvement of Acidified Soil

03

3、公司与福建农林大学合作开展治理修复土壤除草剂等农药残留

3. The company cooperated with Fujian Agriculture and Forestry University to carry out research on restoration of pesticide residuessuch as herbicides in soil.

试验一：修复土壤中草甘膦残留，药后3天添加喷施宝的土壤中草甘膦残留量为957.9μg/kg，比不添加的1067.3μg/kg降低11.42%；药后7天添加喷施宝土壤中的草甘膦残留量为458.3μg/kg，比不添加的558.8μg/kg降低了21.9%；

Experiment I: Restoration of glyphosate residue in soil. The residual amount of glyphosate in soil sprayed with Penshibao was 957.9μg/kg 3 days after application, which was 11.42% lower than that without adding it (1067.3μg/kg). The residual amount of glyphosate in soil sprayed with Penshibao was 458.3μg/kg 7 days after application, which was 21.9% lower than that without spraying it (558.8μg/kg).

试验三：修复土壤中三唑磷残留，在使用三唑磷时添加喷施宝产品，土壤中三唑磷残留量呈现明显下降的变化趋势。药后3天、7天添加喷施宝的残留量比不添加的对照区，土壤中三唑磷残留量降低了24.49%、39.04%，其差异经t检验均达极显著水平（p<0.01）。

Experiment III: Restoration of triazophos residues in soil, adding Penshibao products when using triazophos, a significant downward trend of triazophos residues in soil was shown. After 3 days and 7 days of spraying the product, compared with the control area, the residual amount of triazophos in the soil was reduced by 24.49% and 39.04%, and the difference reached extremely significant level by t test (p<0.01).

试验二：修复土壤中乙草胺残留，试验结果表明，随着时间的进行，土壤中乙草胺残留量呈现明显下降的变化趋势。药后3天，添加喷施宝产品的残留量比不添加的对照区下降43.36%；药后7天比不添加的对照区土壤中乙草胺残留量降低69.71%，达极显著水平（p<0.01）；

Experiment II: Restoration of acetochlor residues in soil. It is shown by the results that the acetochlor residues in soil showed a significant downward trend with time. After 3 days, the residue of the product added with Penshibao decreased by 43.36% compared with the control area without adding it. After 7 days, the residual amount of acetochlor in the soil of the control area decreased by 69.71%, reaching a very significant level (p<0.01).

3、公司与中国农业大学合作研究乙草胺在土壤中的消解动态，采用实验室模拟方法研究了乙草胺在不同土壤中的降解动态，其降解速率与土壤微生物、土壤类型、土壤湿度、环境温度以及光照均有关，其中土壤微生物是影响乙草胺降解的主要因素，在乙草胺的降解中占首要地位。而喷施宝产品能明显地提高土壤中微生物的种群和数量。

3. The company cooperated with China Agricultural University to study the degradation dynamics of acetochlor in soil. Laboratory simulation method was used to study the degradation dynamics of acetochlor in different soils. The degradation rate was related to soil microbes, soil types, soil humidity, environmental temperature and light, among which soil microbes are the main factor affecting the degradation of acetochlor, and occupy the first position in the degradation of acetochlor. Penshibao products can obviously increase the population and quantity of microorganisms in the soil.

2. 降解农药残留保障农产品安全

Degradation of pesticide residues to ensure the safety of agricultural products

近年来，农产品安全问题突显，降解农药残留既是人民的需要、世界的需要，不少国家甚至将农药残留作为农产品国际贸易的技术壁垒，已经成为公众与政府十分关注的重要社会问题。使用喷施宝产品在增加农作物产量的同时，可以激活提高作物体内酶的活性，在提高作物品质和产量的同时，有效降低作物的农药和重金属镉的残留量，确保农产品安全。

In recent years, the safety of agricultural products has been highlighted. Degradation of pesticide residues is not only the needs of the people, but also the needs of the world. Many countries even use pesticide residues as technical barriers to the international trade of agricultural products, which has become an important social issue of great concern to the public and the government. Penshibao products can not only increase crop yield, but also activate and improve enzyme activity in crops, improve crop quality and yield and effectively reduce pesticide and heavy metal cadmium residues in crops to ensure the safety of agricultural products.

中国农业大学高海翔教授研究表明，在使用毒死蜱农药进行蔬菜病虫害防治时，添加喷施宝产品1000-1500倍，施用后7天可降低油菜毒死蜱农药残留量3.0%和49.15%。

It is shown by the research of Professor Gao Haixiang of China Agricultural University that when chlorpyrifos pesticide is used to control vegetable diseases and insect pests, the pesticide residues of chlorpyrifos in rape could be reduced by 3.0% and 49.15% after 7 days of application by adding Penshibao products by 1000-1500 times.

1.福建农林大学茶学院喷施宝降解安溪铁观音农药残留研究:使用喷施宝技术铁观音茶树鲜叶中农残含量的影响

1. Study on degradation of pesticide residues in Anxi Tieguanyin by using Penshibao in Tea College, Fujian Agriculture and Forestry University: Effect of Penshibao on pesticide residues in fresh leaves of Tieguanyin tea plant

处理		联苯菊酯		毒死蜱		虫螨腈	
		含量(mg/kg)	降幅/%	含量(mg/kg)	降幅/%	含量(mg/kg)	降幅/%
A区，检测机构1	对照喷施宝	27.30 13.90	— 49.08	2.30 1.50	— 34.78	5.90 3.60	— 38.98
B区，检测机构2	对照喷施宝	2.93 1.58	— 46.08	0.29 0.08	— 72.41	7.33 2.13	— 70.94

Treatment		Bifenthrin		Chlorpyrifos		Chlorfenapyr	
		Content (mg/kg)	Decreasing amplitude/%	Content (mg/kg)	Decreasing amplitude/%	Content (mg/kg)	Decreasing amplitude/%
Area A, inspection institution 1	Compared with Penshibao used	27.30 13.90	— 49.08	2.30 1.50	— 34.78	5.90 3.60	— 38.98
Area B, inspection institution 2	Compared with Penshibao used	2.93 1.58	— 46.08	0.29 0.08	— 72.41	7.33 2.13	— 70.94

2.福建农林大学喷施宝降解蔬菜农药残留研究：

2. Study on the degradation of pesticide residues in vegetables by Penshibao in Fujian Agriculture and Forestry University;

试验一：结果表明喷施宝能有效促进小白菜叶片和番茄上吡虫啉和毒死蜱两种杀虫剂残留的降解。

Experiment I: It is shown by the results that Penshibao can effectively promote the degradation of imidacloprid and chlorpyrifos pesticide residues on Chinese cabbage leaves and tomatoes.

处理	第5天	第10天	第5天	第10天
	吡虫啉（降幅/%）	吡虫啉（降幅/%）	毒死蜱（降幅/%）	毒死蜱（降幅/%）
对照喷施宝（小白菜）	— 60.2	— 77.4	— 21.3	— 58.5
对照喷施宝（番茄）	— 36.5	— 54.3	— 43.3	— 82.5

Treatment	The 5th day	The 10th day	The 5th day	The 10th day
	Imidacloprid (decreasing amplitude/%)	Imidacloprid (decreasing amplitude/%)	Chlorpyrifos (decreasing amplitude/%)	Chlorpyrifos (decreasing amplitude/%)
Compared with Penshibao used (Chinese cabbage)	— 60.2	— 77.4	— 21.3	— 58.5
Compared with Penshibao used (tomato)	— 36.5	— 54.3	— 43.3	— 82.5

试验二：喷施宝对芥蓝菜中吡虫啉和毒死蜱及高效氯氰菊酯残留均有明显的降解作用。

Experiment II: Penshibao can obviously degrade imidacloprid, chlorpyrifos and beta-cypermethrin residues in Chinese kale.

处理	第3天	第7天	第3天	第7天	第 3天
	吡虫啉（降幅/%）	吡虫啉（降幅/%）	毒死蜱（降幅/%）	毒死蜱（降幅/%）	高效氯氰菊酯（降幅/%）
对照喷施宝（芥蓝菜）	— 57.9	— 83.4	— 47.5	— 65.8	— 76.1

Treatment	The 3rd day	The 7th day	The 3rd day	The 7th day	The 3rd day
	Imidacloprid (decreasing amplitude/%)	Imidacloprid (decreasing amplitude/%)	Chlorpyrifos (decreasing amplitude/%)	Chlorpyrifos (decreasing amplitude/%)	Beta cypermethrin (decreasing amplitude/%)
Compared with Penshibaoused (Chinese kale)	— 57.9	— 83.4	— 47.5	— 65.8	— 76.1

试验三：喷施宝对农药胁迫下芥蓝菜保护酶活性的影响
Experiment III: Effect of Penshibao on protective enzyme activity of Chinese kale under pesticide stress.

芥蓝菜在分别喷施高效氯氰菊酯、毒死蜱、吡虫啉农药试验中，叶面施用喷施宝产品，均可提高芥蓝菜中的过氧化物酶（POD）、超氧岐化酶（SOD）、过氧化氢酶（CAT）酶的活性，激活了芥蓝菜的应急反应，有助于对农药的解毒。

In the experiment of spraying beta cypermethrin, chlorpyrifos and imidacloprid respectively on Chinese kale, the foliar application of Penshibao products can improve the activities of peroxidase (POD), superoxide dismutase (SOD) and catalase (CAT) in Chinese kale, activate the emergency response of Chinese kale and help to detoxify pesticides.

3.中国农业大学研究喷施宝对降低油麦菜中高效氯氰菊酯和茚虫威残留的研究，结果表明在油麦菜分别进行的高效氯氰菊酯、茚虫威农药试验中喷施喷施宝产品，在第5天和第7天，喷施宝产品对这两种杀虫剂在油麦菜中的最终降解有较强的促进作用，随着喷施宝浓度的加大，这种促进效果越明显。

3. China Agricultural University studies the effect of Penshibao on reducing the residues of beta cypermethrin and indoxacarb in oil-vegetable crops. It is shown by the results that spraying Penshibao products in the experiments of beta cypermethrin and indoxacarb pesticides in oil-vegetable crops respectively promote the final degradation of these two pesticides in oil-vegetable crops on the 5th and 7th days, and the more the concentration of Penshibao increased, the more obvious the promotion effect is.

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4.喷施宝技术在蔬菜降农残示范试验汇总：

4. Summary of the demonstration experiment of Penshibao technology in reducing pesticide residues in vegetables:

a.广西北海合浦豇豆吡虫啉农药残留量下降39.6%，每亩农药用量降低11.2%，增产率12.6%；

a. The residue of imidacloprid pesticide in cowpea in Hepu, Beihai, Guangxi decreased by 39.6%, the dosage of pesticide decreased by 11.2% per mu, and the growth rate was 12.6%;

b.新疆阿克苏红枣中毒死蜱农药残留降解率82.0%；
b. The degradation rate of chlorpyrifos pesticide residues in Aksu red dates in Xinjiang was 82.0%;

c.新疆阿克苏苹果喷施毒死蜱时加入“助安”有机水溶肥，检测苹果中毒死蜱含量为0.6mg/kg，符合食品安全标准，不添加的对照组毒死蜱残留量超标；

c. When adding Penshibao “Zhu’an” organic water-soluble fertilizer in spraying chlorpyrifos on Aksu apples in Xinjiang, the content of chlorpyrifos in apples was 0.6mg/kg, meeting the food safety standard, and the residual amount of chlorpyrifos in the control group without addition exceeded the standard;

d.新疆哈密市蔬菜（番茄、辣椒、茄子、尖叶笋子）喷施常规农药+喷施宝产品，可明显降低农药残留量，降低蔬菜上的农药残留达57.8-99.9%之间。

d. Spray conventional pesticides + Penshibao products on vegetables (tomatoes, peppers, eggplants and bamboo shoots) in Hami, Xinjiang, can significantly reduce pesticide residues, and the reduced pesticide residues on vegetables was 57.8-99.9%.

喷施宝公司为国家标准“含有机质叶面肥料”起草单位，喷施宝叶面肥在多达46种农作物在降解农药残留等方面的科学试验，有力地推动了喷施宝“多元生态水溶肥料合作开发与推广应用”项目获得“国家农牧渔业丰收奖一等奖（合作奖）”，该奖代表了我国农业的至高奖项，也代表了公司在环境保护方面的贡献获得国家的高度认可：

Penshibao Company is the drafting unit of the national standard “Foliar Fertilizer Containing Organic Matter”. The scientific experiment of Penshibao Foliar Fertilizer on as many as 46 kinds of crops in terms of pesticide residue degradation has effectively promoted the “cooperative development, popularization and application of multi-ecological water-soluble fertilizer project” of Penshibao to win the “First Prize (Cooperation Award) of the National Harvest Award of Agriculture, Animal Husbandry and Fisheries”. This award represents the highest award of China’s agriculture, and also represents the company’s contribution to environmental protection, which is highly recognized by the state:

全国农业技术推广服务中心、农业农村部耕地质量监测保护中心在上海、福建、广东蔬菜的试验结果表明，可降低毒死蜱、高效氯氰菊酯、2.4滴农药残留16.7%-70%。

The experimental results of the National Agricultural Technology Extension Service Center and the Cultivated Land Quality Monitoring and Protection Center of the Ministry of Agriculture and Rural Affairs in Shanghai, Fujian and Guangdong show that it can reduce chlorpyrifos, beta-cypermethrin and 2.4-drop of pesticide residues by 16.7%-70%.

云南省西双版纳州夏秋茶进行喷施宝立体施肥技术试验示范，经检测结果为18种农药残留零检出，达到欧盟出口标准。

Xia Qiu tea in Xishuangbanna, Yunnan Province was tested and demonstrated by Penshibao three-dimensional fertilization technology. It is shown by the inspection results that 18 pesticide residues were zero, reaching the EU export standard.

中国烟草研究所在烟草防治病虫害时，采用喷施宝的“药肥合一”模式，能有效地降解烟叶中的农药残留，其中喷施宝兑水1000倍的规格产品，可降解烟叶中氯虫苯甲酰胺、氟啶虫酰胺、氟苯虫酰胺、氟啶虫胺腈4种农药残留量达21.43-50.5%。

China Tobacco Research Institute adopted the “combination of medicine and fertilizer” mode of Penshibao to control tobacco diseases and pests, which could effectively degrade pesticide residues in tobacco leaves. The pesticide residues of chlorantraniliprole, flonicamid, flubendiamide and sulfoxaflor in tobacco leaves could reach 21.43-50.5% by the product of Penshibao mixed with 1000 times of water.

福建省武夷山大红袍茶叶使用喷施宝技术，200项农药残留为零检出。青海省柴达木施用喷施宝水溶肥的枸杞，446项农药残留为零检出，符合出口欧盟标准。

The Dahongpao Tea in Wuyishan, Fujian Province was applied with Penshibao technology, and 200 pesticide residues were zero. For Lycium barbarum sprayed with Penshibao water-soluble fertilizer in Qaidam, Qinghai Province, 446 pesticide residues were zero, meeting the EU export standard.

3. 富硒产业
Selenium-rich industry

硒是人体必须的一种微量元素，具有提高人体免疫机能、延缓衰老、防治疾病等功能，被誉为“生命的火种”、“抗癌之王”、“心脏的守护神”。随着人们对生活质量的追求，食用富硒产品已经成为健康饮食的首选。

Selenium is an essential trace element for human body, which has the functions of improving human immune function, delaying aging, preventing and treating diseases. It is known as the “kindling of life”, the “king of anti-cancer” and the “patron saint of the heart”. With people’s pursuit of quality of life, eating selenium-rich products has become the first choice for healthy diet.

近年来，喷施宝公司研发推广富硒技术和康熙宝系列产品，在水稻、蔬菜、瓜果和禽畜等农牧产品上使用，均达到国家富硒产品标准，为种植养殖户带来显著收益。同时，康熙宝产品无毒、无激素，具有增产、提质、抗逆，降解农药和重金属残留等综合效果，有利于促进绿色健康生态农业发展。

In recent years, Penshibao Company has developed and popularized selenium-enriched technology and Kangxibao series products, which have been used in agricultural and livestock products such as rice, vegetables, fruits and poultry, all of which have reached the national selenium-enriched product standards, bringing significant benefits to farmers. At the same time, Kangxibao products are nontoxic and hormone-free, and have comprehensive effects of increasing production, improving quality, resisting stress, degrading pesticide and heavy metal residues, etc., which is conducive to promoting the development of green and healthy ecological agriculture.

1.全国各地农作物富硒案例

1. Selenium-rich experiment of crops all over China

2014年以来在全国多省区开展富硒粮食作物示范，喷施宝富硒产品可让水稻、小麦、玉米、大豆、马铃薯等粮食作物硒含量为0.064-0.283mg/kg，达到富硒农产品标准范围，与空白对照组相比硒含量提高61.4-812.3%，产量提高幅度大8.69-12.73%。

Since 2014, selenium-enriched food crops have been demonstrated in many provinces and regions in China. Penshibao selenium-enriched products can make the selenium content of rice, wheat, corn, soybeans, potatoes and other food crops 0.064-0.283mg/kg, reaching the standard range of selenium-enriched agricultural products. Compared with the blank control group, the selenium content is increased by 61.4-812.3% and the yield is increased by 8.69-12.73%.

2014-2021年在蔬菜上进行增硒试验，其中白菜、菜心、芥菜、葱等作物等增硒效果和增硒质量较好，白菜硒含量达到0.016-0.024mg/kg，菜心硒含量在0.014-0.025mg/kg，芥菜硒含量达到0.023-0.063mg/kg，葱的硒含量在0.020mg/kg，在富硒的同时实现增产，亩增产率在9.71-13.59%，增产增硒效果达极显著水平；番茄、南瓜、韭菜等硒含量也符合富硒农产品标准。

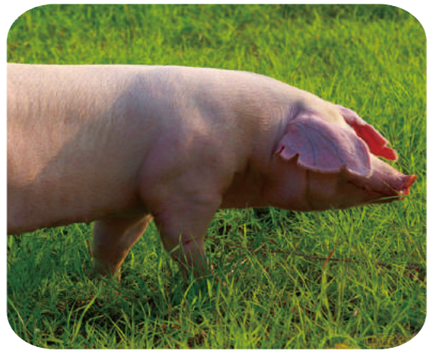
Selenium increase experiments were carried out on vegetables from 2014 to 2021. Among them, Chinese cabbage, Chinese flowering cabbage, Chinese kale, onion and other crops have better selenium increase effect and quality that the selenium content of Chinese cabbage is 0.016-0.024mg/kg, the selenium content of Chinese flowering cabbage is 0.014-0.025mg/kg, the selenium content of Chinese kale is 0.023-0.063mg/kg, and the selenium content of onion is 0.020mg/kg. While enriching the selenium, the yield is increased by 9.71-13.59% per mu, so the yield and selenium increasing effect is significant. Selenium contents of tomatoes, pumpkins and leeks also meet the standards of selenium-rich agricultural products.

2.全国各地动物富硒案例

2. Selenium-rich experiment of animals all over China

采用喷施宝的富硒技术养殖鹌鹑，以 40 只鸟每天不超过 1 毫升产品计，将产品滴入喂水器让鸟自由采食，三十四天后取样检测，鹌鹑蛋硒含量为0.26mg/kg，产品达到富硒标准。

No more than 40 quails were bred by the selenium-rich technology of Penshibao. Dripped the product as 1ml/day into the water feeder for birds to eat freely. After 34 days, the selenium content of quail eggs was 0.26mg/kg, reaching the selenium-rich standard.



采用喷施宝的富硒技术养殖猪，将喷施宝产品添加在饲料或饮用水中饲喂，当猪体重增长到50-60斤（80-90日龄）时开始饲喂，每天每头猪用本品20毫升，分两餐饲喂，每餐10毫升，拌稀料或兑少量水均匀的喷洒在干料中饲喂，连续饲喂5天，然后停喂5天，依次循环，在猪出栏前20天停止饲喂。经检测猪里脊肉、猪血、猪肠、猪心、猪肺等部位硒含量到达0.235-0.318mg/kg之间，猪肉达到富硒标准。

Adopted the selenium-rich technology of Penshibao to breed pigs. Added Penshibao products in feed or drinking water and started feeding when the weight of pigs increased to 50-60kg (80-90 days old) with this product 20ml every day in two meals with 10ml for each meal, which was mixed with dilute material or mixed with a small amount of water, and evenly sprayed in dry material, fed continuously for 5 days, then stopped feeding for 5 days, circulated in turn and stopped feeding 20 days before pigs grew up. The selenium content in pork tenderloin, pig blood, pig intestine, pig heart and pig lung reached 0.235-0.318mg/kg, and pigs reached the selenium-rich standard.

2019年内蒙古田之宝农业发展有限公司与喷施宝签订的富硒鸡养殖协议，喷施宝提供富硒养殖技术指导，结果表明：按照指导使用喷施宝产品的鸡生长壮实，毛颜色发亮有光泽，抵抗力强，肉质更加鲜美紧致，产蛋率提升,鸡肉硒含量达0.26mg/kg,鸡蛋硒含量达到0.22mg/kg，均达到富硒产品标准。

In 2019, Inner Mongolia Tianzhibao Agricultural Development Co., Ltd. signed a selenium-rich chicken breeding agreement with Penshibao and Penshibao provided technical guidance for selenium-rich chicken breeding. The results showed that chickens using Penshibao products according to the guidance were strong with bright hair, strong resistance, more delicious and compact meat quality, and improved egg production rate. The selenium content in chicken and eggs reached 0.26mg/kg and 0.22mg/kg respectively, reaching the selenium-rich product standard.

（4）减少化肥使用量，保护生态环境；推广喷施宝有机水溶肥，可以显著提高粮食产量和品质。

(4) Reduce the amount of chemical fertilizer used and protect the ecological environment; popularize Penshibao organic water-soluble fertilizer can significantly improve grain yield and quality.

减少化肥使用量是实现农业转型和绿色发展的必由之路，也是提高农田土壤肥力，藏粮于土，确保国家粮食安全和生态环境安全的重要基础和战略选择。

Reducing the amount of chemical fertilizer used is the only way to realize agricultural transformation and green development, and it is also an important foundation and strategic choice to improve farmland soil fertility, store grain in soil, and ensure national food security and ecological environment security.

化肥施用过量的主要危害：
Main hazards of excessive application of chemical fertilizer:
1、大量使用化肥造成土壤团粒结构破坏、土壤板结、农作物产量、质量下降。
1. The extensive use of chemical fertilizers causes the destruction of soil aggregate structure, soil hardening, and the decline of crop yield and quality.
2、化肥利用率低，危害人体健康。
2. The utilization rate of chemical fertilizer is low, which is harmful to human health.
3、造成土壤理化性质的变化及环境的污染，导致土壤中有益菌、蚯蚓的大量死亡。
3. The physical and chemical properties of the soil are changed and the environment is polluted, resulting in a large number of beneficial bacteria and earthworms dying in the soil.
4、给农民带来严重收入损失。
4. Bring serious income loss to farmers.
5、影响农作物品质，给农民带来严重收入损失。
5. Affect the quality of crops and bring serious income loss to farmers.
6、粮食和农产品安全受到威胁。
6. Safety of food and agricultural products is threatened.
7、增加土壤重金属和有毒元素，加剧土壤酸化。
7. Increase soil heavy metals and toxic elements, and aggravate soil acidification.
8、残留化肥会流入土壤和江河湖泊，从而导致水源污染等。
8. Residual fertilizer will flow into soil, rivers and lakes, resulting in water pollution, etc.

喷施宝公司自2000年起，连续21年，在广西合浦县党江镇建立35亩水稻示范基地，投入大量人力和资金，坚持18年对水稻田不使用化肥农药的生态农业试验，采用以喷施宝有机水溶肥+生物有机肥代替化肥；以喷施宝有机水溶肥+茶枯水代替农药防治水稻田病虫草害。经专家验收，不使用化肥农药水稻田，产量达到当地施用化肥农药水稻田的平均水平，而且有利于改良修复土壤、食品安全和生态环境保护。

Since 2000, Penshibao Company has established a 35-mu rice demonstration base in Dangjiang Town, Hepu County, Guangxi Province for 21 consecutive years, invested a lot of manpower and funds, persisted in 18-year eco-agricultural experiments on paddy fields without chemical fertilizers and pesticides, and adopted Penshibao organic water-soluble fertilizer + bio-organic fertilizer instead of chemical fertilizer as well as Penshibao organic water-soluble fertilizer + tea dry water instead of pesticides to control diseases, pests and weeds in paddy fields. After acceptance by experts, the yield of paddy fields without chemical fertilizers and pesticides reaches the average level of paddy fields where chemical fertilizers and pesticides are applied locally, and it is conducive to the improvement and restoration of soil, food safety and ecological environment protection.

通过农业农村部耕地质量监测保护中心、全国农业技术推广服务中心等部门在全国31个省（区、市）46种农作物减肥增效试验示范的权威数据表明，在减少多种作物当季化肥追肥使用量10-30%的情况下，喷施宝仍能达到稳产增收的效果。

The authoritative data of 46 kinds of crops in 31 provinces (autonomous regions and municipalities) in China, such as the Farmland Quality Monitoring and Protection Center of the Ministry of Agriculture and Rural Affairs and the National Agricultural Technology Extension Service Center on test demonstration of fertilizer reduction and efficiency increase, show that Penshibao can still achieve the effect of stable production and income increase under the condition of reducing the amount of chemical fertilizer topdressing for various crops by 10-30% in the current season.

喷施宝有机水溶肥代替化肥，是现阶段最直接也最有效的耕地质量提升手段。使用喷施宝有机叶面肥不仅有利于改善耕地土壤理化性状，提高耕地综合生产能力；从长远来说，更有利于构建耕地质量保护与提升长效机制，也减少了碳排放，对保护生态环境和保证国家粮食安全具有重要的意义。

Use Penshibao organic water-soluble fertilizer to replace chemical fertilizer is the most direct and effective means to improve cultivated land quality at present. Penshibao organic foliar fertilizer can not only improve the physical and chemical properties of cultivated land soil, but also improve the comprehensive productivity of cultivated land. In the long term, it is more conducive to building a long-term mechanism to protect and improve the quality of cultivated land, and it also reduces carbon emissions, which is of great significance to protecting the ecological environment and ensuring national food security.

“青山绿水就是金山银山”，减少农业面污染，提高粮食产量和品质，是喷施宝向社会作出的郑重承诺。通过喷施宝核心产品在全国及进口国的推广与销售，可创造超千亿的社会效益和经济效益。在新冠疫情还继续肆虐横行的2021年，公司积极拓宽产能，通过输入农资产品和技术，以自己的特有方式来支援抗疫。据不完全统计，公司直接创造了超过5亿元的产值，在保产量、稳收入、土壤改良等领域，获得经济效益超100亿，社会效益不可估量。

“Clear waters and green mountains are as valuable as mountains of gold and silver.”. Reducing agricultural pollution and improving grain yield and quality is a solemn commitment made by Penshibao to the society. Through the promotion and sales of core products of Penshibao in China and importing countries, it can create social and economic benefits exceeding 100 billion Yuan. In 2021, when the COVID-19 epidemic continued to spread, the company actively expanded its production capacity, and supported the anti-epidemic in its own unique way by importing agricultural products and technologies. According to incomplete statistics, the company directly created an output value of over 500 million Yuan, and gained economic benefits of over 10 billion Yuan in ensuring output, stabilizing income and improving soil, and the social benefits are immeasurable.

4. 客户权益保护

Protection of Customer Rights and Interests

经过全国农业技术推广服务中心、农业部耕地质量监测保护中心和有关农业大学长期试验研究，并在国内外推广应用，表明喷施宝系列有机水溶肥对增加产量、改善品质、减少化肥使用量、降解农药残留污染、治理修复土壤、发展富硒健康农产品等具有显著效果。

After a long-term experimental study by the National Agricultural Technology Extension Service Center, the Farmland Quality Monitoring and Protection Center of the Ministry of Agriculture and relevant agricultural universities, and its popularization and application at home and abroad, it shows that Penshibao series of organic water-soluble fertilizers has remarkable effects on increasing yield, improving quality, reducing the amount of chemical fertilizer used, degrading pesticide residue pollution, treating and repairing soil, and developing selenium-rich healthy agricultural products.

1.公司连续第14年与农业农村部耕地质量监测保护中心（原全国农业技术推广服务中心）合作进行产品试验示范，2008至2021年，喷施宝系列产品试验示范网点已覆盖全国31个省（区、市），累计安排试验288个、示范63个；试验作物从最初的9种扩展至46种。通过连续十几年、大范围的不间断试验示范，逐步建立了喷施宝系列产品的年度试验示范长效机制，使产品试验示范效果更具持久和广泛的说服力。2021年全年在11个省份安排13个技术示范，其中在黑龙江开展减肥增效示范；在辽宁、贵州开展农业绿色种植示范；在内蒙古、河北、山东、吉林开展盐碱耕地治理绿色种植示范；在云南、江苏、浙江、福建、广西开展酸化耕地治理绿色种植示范，有效地提高喷施宝系列产品示范推广效应。

1. The company has cooperated with the Farmland Quality Monitoring and Protection Center of the Ministry of Agriculture and Rural Affairs (formerly the National Agricultural Technology Extension Service Center) to conduct product trials and demonstrations for 14 consecutive years. From 2008 to 2021, the trial and demonstration outlets of Penshibao series products have covered 31 provinces (autonomous regions and municipalities) in China, with a total of 288 trials and 63 demonstrations arranged; the experimental crops were expanded from the original 9 species to 46 species. Through more than ten years' continuous and large-scale continuous experiment and demonstration, the long-term mechanism of annual experiment and demonstration of Penshibao series products has been gradually established, making the experiment and demonstration effect of products more lasting and widely convincing. In 2021, 13 technical demonstrations was arranged in 11 provinces, including fertilizer reduction and efficiency demonstration in Heilongjiang; demonstration of agricultural green planting in Liaoning and Guizhou; green planting demonstration in Inner Mongolia, Hebei, Shandong and Jilin; demonstration of green planting of acidified cultivated land carried out in Yunnan, Jiangsu, Zhejiang, Fujian and Guangxi, thus effectively improving the demonstration and popularization effect of Penshibao series of products.

3.公司技术团队通过4008899989服务热线咨询及线上线下咨询等多种形式，为全国各地客户及业务员解答有关喷施宝产品使用、病虫害防治技术和疑难问题1500多次，增加了用户对喷施宝的了解和信任。

3. The technical team of the company has answered more than 1,500 questions about the use of Penshibao products, pest control techniques and difficult problems for customers and salesmen all over China through 400889989 service hotline consultation and online and offline consultation, which has increased users' understanding and trust in Penshibao.

4、公司根据客户和市场营销需要，2021年各省区技术人员，通过中国邮政强大的营业网络和社会经销网络，下乡驻村开展技术培训580场次，参加培训人员近2万人次，组织试验示范点376个，为客户提供全方位的技术指导等服务，由传统根部施肥向叶面立体施肥转变，从浪费肥力到精确施肥，环保施肥，极大减少了化肥对环境的危害，喷施宝公司倡导的“水肥一体化”立体施肥模式，也得到了广大用户的高度认可。农场和基地种植主，精准扶贫对象，通过喷施宝公司的技术指导，经济收入大幅增加，很多农户通过使用喷施宝核心叶面肥产品，也脱了贫；国家主导的水稻“防早衰”和小麦“一喷三防”工程，使喷施宝立体施肥模式获得市场高度认可，粮良安全也获得强有力的保证，缔造了超千亿的社会效益和经济效益。

4. According to the needs of customers and marketing, in 2021, technical personnel from all provinces and autonomous regions, through China Post's strong business network and social distribution network, went to the countryside to carry out 580 technical training sessions with nearly 20,000 trainees attended, organized 376 experimental demonstration sites and provided customers with all-round technical guidance and other services from traditional root fertilization to foliar three-dimensional fertilization and from waste of fertility to precise fertilization and environmental protection fertilization, thus the harm of chemical fertilizers to the environment was greatly reduced. The three-dimensional fertilization mode of "integration of water and fertilizer advocated by Penshibao Company has also been highly recognized by the majority of users. Farmlands, planters of the base and precise poverty alleviation targets has increased their income substantially through the technical guidance of Penshibao Company, and many farmers have also been lifted out of poverty by using the core foliar fertilizer products of Penshibao; State-led projects of "preventing premature senescence" of rice and "one spray and three defenses" of wheat have made the three-dimensional fertilization mode of Penshibao highly recognized by the market, and the grain quality and safety have also been strongly guaranteed, creating social and economic benefits exceeding 100 billion Yuan.

2021年示范增收效果：与常规施肥处理对比，常规施肥+喷施宝产品处理增收在2.02%-31.49%之间，亩均增收在24.4-12938.05元之间，其中黄瓜、辣椒、沃柑、脆瓜、蓝莓等作物亩均增收在500元以上，脆瓜增幅最显著，增产1830.3kg，增产率达31.49%，亩增收12938.5元；水稻、玉米、向日葵、大豆、茼蒿等其他作物亩均增收在24.4-500元之间。

Effect of demonstration income increase in 2021: Compared with the conventional fertilization treatment, the conventional fertilization+Penshibao products treatment increased the income by 2.02%-31.49%, and the average income per mu was between 24.4-12,938.05 Yuan, among which the income per mu of cucumber, pepper, citrus sinensis, crisp melon and blueberry was higher than that of 500 Yuan, and the crisp melon increased the most significantly, increasing the yield by 1830.3kg. Other crops, such as rice, corn, sunflower, soybean and chrysanthemum, all increased their income by 24.4-500 Yuan per mu.

2、2021年公司组织专业技术团队协助内蒙古、山东、河北、云南、江苏、浙江、广西、福建省（区）土肥站和客户制订盐碱耕地和酸化耕地治理绿色种植方案，现场指导开展酸化耕地和盐碱耕地治理改良修复工作，酸化耕地和盐碱地改良修复面积达3万余亩，经过改良治理均取得明显效果，在盐碱地改良试验区种植脆瓜、玉米、葵花、茼蒿改良后较改良前：施用喷施宝土壤改良剂土壤有机质、全氮、速效磷、有效钾含量分别提高在0.11g/kg-0.96g/kg、0.01g/kg-0.09g/kg、0.08%、0.33%；土壤土层盐分含量、pH值分别下降0.08-0.09g/kg、0.1-0.23，土壤中重金属含量明显降低。在酸化耕地试验区种植辣椒、黄瓜、沃柑改良后较改良前：施用喷施宝土壤改良剂显著提高了土壤pH，土壤pH从5.35提升至6.12，土壤pH提高了0.77个单位。土壤碱解氮、速效钾含量有显著提升，分别提升了15.70%和8.54%。其中沃柑品质提升最显著，可溶性总糖含量、可溶性固形物和维生素C含量提高；可滴定酸含量降低。

2. In 2021, the company organized a professional technical team to assist soil and fertilizer stations and customers in Inner Mongolia, Shandong, Hebei, Yunnan, Jiangsu, Zhejiang, Guangxi and Fujian provinces (autonomous regions) to formulate green planting plans for saline-alkali cultivated land and acidified cultivated land, and to guide the improvement and restoration of acidified cultivated land and saline-alkali cultivated land on site. The area of acidified cultivated land and saline-alkali land has been improved and restored to over 30,000 mu, and obvious results have been achieved after improvement and treatment. In the saline-alkali land improvement test area, after planting crisp melon, corn, sunflower and chrysanthemum, the contents of soil organic matter, total nitrogen, available phosphorus and available potassium in soil after applying Penshibao soil modifier were increased by 0.11g/kg-0.96g/kg, 0.01g/kg-0.09g/kg, 0.08% and 0.33% respectively; the soil salt content and pH value decreased by 0.08-0.09g/kg and 0.1-0.23 respectively, and the heavy metal content in the soil decreased obviously. In the experimental area of acidified farmland, after pepper, cucumber and ponkan were planted: the application of soil modifier Penshibao significantly increased the soil pH from 5.35 to 6.12, and the soil pH increased by 0.77 units. The contents of alkali-hydrolyzable nitrogen and available potassium in soil increased significantly by 15.70% and 8.54% respectively. Among them, the quality of Vokan was the most obvious, and the contents of soluble total sugar, soluble solids and vitamin C were increased. The titratable acid content was reduced.

公司技术部门为山东、黑龙江、内蒙古、河南、河北、安徽、浙江、广西、新疆、四川、云南、福建等31个省（区）的市场客户按需求制定喷施宝立体施肥、降解农药残留、减肥增效、盐碱地治理改良、酸化耕地治理、富硒农畜产品、农业绿色种植等技术方案530余个。

The technical department of the company has formulated more than 530 technical schemes, such as Penshibao three-dimensional fertilization, degradation of pesticide residues, fertilizer reduction and efficiency increase, saline-alkali land treatment and improvement, acidification of cultivated land, selenium-rich agricultural and livestock products and green planting of agriculture, for market customers in 31 provinces (autonomous regions) such as Shandong, Heilongjiang, Inner Mongolia, Henan, Hebei, Anhui, Zhejiang, Guangxi, Xinjiang, Sichuan, Yunnan and Fujian.

5. 2021年公司开展培训情况

Training Developed by the Company in 2021

项　目	东北	华北	华中	华东	华南	西南	西北	合计
培训场次	176	60	66	24	86	75	93	580
培训人次	5080	1880	1980	1200	2580	2250	4600	19370
示范点数	46	67	50	20	58	72	63	376

Item	Northeast	North China	Central China	East China	South China	Southwest	Northwest	Total
Training times	176	60	66	24	86	75	93	580
Trainees	5080	1880	1980	1200	2580	2250	4600	19370
Demonstration sites	46	67	50	20	58	66	63	376

公司基于创始人王祥林先生“服务绿色健康农业，造福人类”的经营理念，把实现人民“吃得饱、吃得好、吃得健康”作为初心，让公司具有独立知识产权的核心产品–喷施宝叶面肥，以其“土壤修复改良、降农残降药害、富硒产业”的独特功能，全国农业技术推广服务中心和农业农村部耕地质量监测保护中心在全国范围内多年的试验示范，让公司更好地履行企业的社会责任，同时也有力支援了全球抗击新冠疫情的斗争，在减肥增效、环境保护、保障粮食和农产品安全、可持续农业发展、抗逆减灾、抗病抗虫、扶贫、创收等领域作出了巨大的贡献，受到国内外地方政府的高度赞赏和认可，客户权益也得到了充分保障，有力地解决全国和世界人民“有饭吃、吃的饱、吃的好的问题”的根本性问题，为国分忧。

Based on the business philosophy of Mr. Wang Xianglin, the founder of the company, “serving green and healthy agriculture for the benefit of mankind”, with the initial intention of realizing people’s “full, good and healthy food”, the company has the core product of independent intellectual property rights –

Penshibao foliar fertilizer, with its unique functions of “soil restoration and improvement, reduction of agricultural residues and pesticide harm, and selenium-rich industry”. The national agricultural technology extension service center and the cultivated land quality monitoring and protection center of the Ministry of Agriculture and Rural Affairs have made many years of experiments and demonstrations nationwide, which have enabled the company to better fulfill its corporate social responsibility. At the same time, it has also strongly supported the global fight against the COVID-19 epidemic, and made great contributions in reducing fertilizer and increasing efficiency, environmental protection, ensuring food safety and agricultural products, sustainable agricultural development, fighting against disasters, resisting diseases and insects, helping the poor and generating income. It has been highly appreciated and recognized by local governments at home and abroad, and the rights and interests of customers have been fully guaranteed. It has effectively solved the fundamental problem of “having food, enough food and good food” for the people of the whole country and the world, and solved problems for the country.

特别是在保证粮食安全方面，更有“先天下之忧而忧，后天下之乐而乐”的忧患意识，走在行业的前列，多次以一个老政协委员的高度社会责任感，向国家相关部门建言献策；利用喷施宝核心技术优势，推动粮食优质增产，保证粮食种植顺利和粮食产量稳定。做好“作物”和“土地”两篇文章，减轻耕地污染、撂荒、盐碱地，就成为粮食安全成功与否的关键。喷施宝核心叶面肥，能有效减轻农民用肥成本的压力，减轻环境压力，促使农业绿色低碳发展。

Especially in the aspect of ensuring food safety, he has a sense of urgency of “being concern about the country and the people before anything else”. He has been at the forefront of the industry, and has repeatedly made suggestions to relevant state departments with a high sense of social responsibility of an old CPPCC member: using the core technical advantages of Penshibao to promote high-quality grain production and ensure smooth grain planting and stable grain output. Doing a good job in “crops” and “land” to reduce cultivated land pollution, abandoned land and saline-alkali land will become the key to the success of food safety. Penshibao core foliar fertilizer can effectively reduce the pressure of farmers’ fertilizer cost, reduce the environmental pressure and promote the green and low-carbon development of agriculture.

“庄稼一枝花，全靠肥当家”，肥料是粮食增产、应对全球粮食危机的重要保障，作为中国叶面肥行业先导和推动者，拥有中国农业第一品牌之誉的喷施宝公司，责无旁贷。

“The growth of crops depends on fertilizer”. Fertilizer is an important guarantee for increasing grain production and coping with the global food crisis. As the pioneer and promoter of China’s foliar fertilizer industry, Penshibao Company, known as the China’s first agricultural brand, is duty-bound.

6. 劳动者权益

Protection of Labor's Rights

1、公司严格遵守《中华人民共和国劳动合同法》和《中华人民共和国公司法》，规范执行企业用工制度，积极践行企业社会责任。

1. The company strictly abides by the Labor Contract Law of the People's Republic of China and the Company Law of the People's Republic of China, standardizes the implementation of the enterprise employment system and actively practices corporate social responsibility.

2、公司坚持“以人为本”的管理理念，营造和谐劳资关系；不定期组织员工进行健康体检、消防、安全生产及职业健康培训，增强员工健康安全意识，防患于未然。

2. The company adheres to the “people-oriented” management concept to create a harmonious labor-capital relationship; organizes employees to have health check-up as well as training on firefighting, production safety and occupational health irregularly, so as to enhance employees’ health and safety awareness and prevent problems before they happen.

3、作为国家医保的补充，公司积极拓宽保障范围和渠道，包括工会为员工额外购买集体医疗互助商业保险，为生日员工赠送生日蛋糕，为出差业务员购买意外险等等。

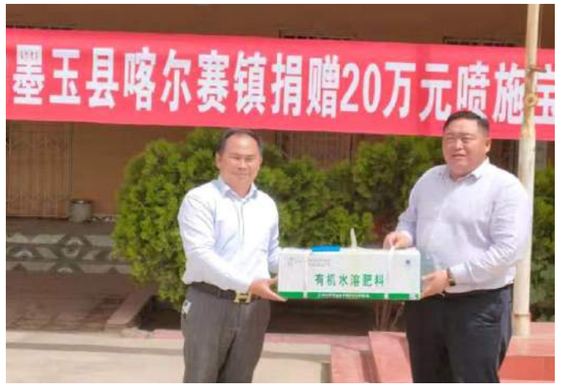
3. As a supplement to the national medical insurance, the company actively broadens safeguard scope and channels, including the trade union’s additional purchase of collective mutual medical insurance for employees, birthday cake for employee’s birthday, accident insurance for business salesmen, and so on.

7. 社会公益事

Social Benefit Activities

2021年5月6日为了配合新疆政府开展2021年乡村振兴活动，公司向新疆维吾尔自治区和田地区和田县罕艾日克镇捐赠20万元喷施宝公司农用物资，向新疆维吾尔自治区和田黑玉县捐赠20万元喷施宝公司农用物资，向新疆维吾尔自治区和田黑玉县喀尔赛镇捐赠20万元喷施宝公司农用物资。

On May 6, 2021, in order to cooperate with the Xinjiang government to carry out the rural revitalization activities in 2021, the company donated 200,000 Yuan of agricultural materials of Penshibao Company to Han’airike Town, Hetian County, Xinjiang Uygur Autonomous Region, 200,000 Yuan of agricultural materials of Penshibao Company to Hetian Heiyu County, Xinjiang Uygur Autonomous Region, and 200,000 Yuan of agricultural materials of Penshibao Company to Kalsai Town, Hetian Heiyu County, Xinjiang Uygur Autonomous Region.



利益相关方
Stakeholders

利益相关方	关注议题	沟通形式及表现
客户	售前及售后有保证 重合同、守信用	1、公司为了维护与经销商友好稳定的长期合作关系，公司配配备对应的商务专员与之沟通协调日常订单事务，业务经理不定期上门拜访，开展产品知识使用方法培训、营销方案推广、技术服务支持等活动。 2、甲乙双方本着平等自愿、互惠互利、诚实守信的原则，经充分友好协商，就乙方销售甲方产品的相关事宜，订立合同条款，共同恪守履行。甲方为乙方提供符合国家标准或企业标准或指定标准的的产品，在本合同有效期内，甲方有义务对乙方提供营销、服务或技术上的指导。
供应商	公平采购 实现双赢 战略合作 反腐败	合同协议及谈判、严格履约、较高的供应商满意度、ISO质量及环境管理体系认证
金融机构	降低融资成本 减少支付及融资风险 货款安全	合同约定、研究融资政策、减少融资风险
政府	企业履行社会责任 共建和谐社区 政府招标	参与志愿者活动、公益捐款及扶贫、社区文明共建、高标准保证政府投标农资质量
Stakeholders	Issues of concern	Communication forms and manifestations
Clients	Pre-sales and after-sales are guaranteed Respect contracts and keep promises	1. In order to maintain a friendly and stable long-term cooperative relationship with distributors, the company is equipped with corresponding commercial commissioners to communicate with them and coordinate daily order affairs. Business managers make occasional home visits to carry out activities such as training in the use of product knowledge, promotion of marketing plans, technical service support, etc. 2. Based on the principles of equality, voluntariness, mutual benefit, honesty and trustworthiness, Party A and Party B, through full and friendly consultation, have entered into contract terms on matters related to Party B's sales of Party A's products, and will abide by them together. Party A shall provide Party B with products that meet the national standards, enterprise standards or designated standards. During the validity of this contract, Party A shall be obliged to provide Party B with marketing, service or technical guidance.
Suppliers	Respect contracts and keep promises、Cooperation and win-win、Loan and after-sales are guaranteed	Contract agreement and negotiation、Strict contract performance High supplier satisfaction、ISO quality and environment management system certification
Financial institutions	Reduce financing cost Reduce risks Payment in due course	Contract negotiation、Daily business communication、Study on financial policies、Reduce financing risks
Government	Enterprises fulfill social responsibilities Commonly build a harmonious community Government bidding	Participate in thematic activities such as World Environment Day Donations for public welfare and poverty alleviation Community civilization co-construction Guarantee the quality of agricultural materials in government bidding with high standard

社会评价
Social Appraisal

1、中新网China News
http://www.gx.chinanews.com.cn/gxgd/2021-03-10/detail-ihaihcas2690392.shtml
2021年3月10日 北海市海城区工商联为企业搭台交流 中华肥王分享创业经历
March 10, 2021 Haicheng District Federation of Industry and Commerce of Beihai City set up a platform for enterprises to exchange and "King of Chinese Fertilizer" shared entrepreneurial experience

2、中新网 China News
https://m.chinanews.com/wap/detail/chs/zw/5965990hakxxqfdf.shtml
2021年5月3日 喷施宝创始人谈乡村振兴：修复土壤 降解农药发展富硒
May 3, 2021 The founder of Penshibao talked about rural revitalization: repairing soil, degrading pesticides and developing selenium-rich industry

3、江苏创新网www.jscxw.cn
http://www.jscxw.cn/Wap/content/1/8440.html
2021年5月9日 全国减肥增效优秀范例发布 广西喷施宝荣膺两项大奖
May 9, 2021 The national excellent example of losing fertilizer and increasing efficiency was released and Guangxi Penshibao won two awards

4、人民政协网CPPCC Network
http://mobile.rmzxb.com.cn/tranm/index/url/www.rmzxb.com.cn/c/2021-08-16/2932474.shtml
2021年8月16日 生态肥料助力生态农业产品价值实现与乡村振兴座谈会在京举行
August 16, 2021 The symposium on ecological fertilizer helping to realize the value of ecological agricultural products and rural revitalization was held in Beijing (with pictures)

公司2022年展望

Outlook of the company in 2022

2022年，公司将继续发挥自己的技术及产品优势，全力保障粮食安全，为国分忧；践行“一心为农”职责，全面打造全国样版市场；研习国家扶农政策，做好土壤修复改良技术服务，实现企业经济和社会效益双丰收。

In 2022, the company will continue to give full play to its advantages in technology and products, make every effort to ensure food safety and share the worries for the country; practice the duty of “being devoted to agriculture” and build a national sample market in an all-round way; study the national policy of supporting agriculture, provide technical services for soil restoration and improvement, and achieve a double harvest of economic and social benefits of the enterprise.

历年社会责任报告

PREVIOUS YEARLY VERSIONS OF SOCIAL RESPONSIBILITY REPORT

2007 Version

2008 Version

2009-2010 Version

2011 Version

2012 Version

2013 Version

2014 Version

2015 Version

2016 Version

2017 Version

2018 Version

2019 Version

2020 Version