



Sinoma 中材建设有限公司
CBMI Construction Co., Ltd.

2021

中材建设有限公司 社会责任报告

CBMI SOCIAL RESPONSIBILITY REPORT





Sinoma 中材建设有限公司
CBMI Construction Co., Ltd.

◆ 报告说明 Description of report

◆ 执行董事致辞 Speech from executive director

◆ 企业简介 About the Company

企业概况	Company profile
业务领域	Business fields
治理结构	Governance structure
业务分布图	Business distribution diagram
利益相关方信息	Stakeholders involved
参加国内外主要的社会团体	Membership involved
2021年度所获荣誉	Honors in 2021

◆ 理念战略 Concept strategy

企业战略及理念	Enterprise strategy and concept
社会责任理念与推进	Social responsibility concept and promotion

◆ 管理运营 Management operation

加强业务建设	确保优质服务	Strengthen business construction and ensure high-quality service
经营业绩攀新高	市场开拓创佳绩	Strengthen Market Development,Ensure Stable Operation
坚持创新驱动	改革赋能发展	Insist on innovation-driven reform and empower development
夯实管理基础	筑牢安全防线	Consolidate safety management on,Pay close attention to epidemic prevention and control
倡导节能环保	共建绿色生态	Advocate energy saving, environmental friendly and build a green ecology
关爱员工利益	共创和谐企业	Care employees' interests and create a harmonious enterprise jointly
加强社区交流	共建社会关系	Strengthen community communication and build a social relation jointly

◆ 探索发展 Explore development

数字化及智慧建造	Digitization and intelligent building
属地化经营	Localized operation
产业化发展	Industrialized development

◆ 责任绩效 Responsibility performance

2021年度关键责任绩效	Key responsibility performance in 2021
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◆ 未来展望 Future outlook

经营发展	Business development
管理提升	Management enhancement
企业社会责任建设	Corporate social responsibility construction

◆ 意见反馈表 Reader's Feedback Form

中材建设有限公司2021年社会责任报告

Social Responsibility Report of CBMI Construction Co., Ltd. in 2021

报告说明

Description of report

本报告是中材建设有限公司（简称“中材建设”）在2021年度履行社会责任方面持续改进的真实记录。通过这份报告，本企业员工、服务客户、合作伙伴、分包商、股东和出资人、国家各主管部门、社团及所有关注中材建设发展的相关人士，都可以了解中材建设的社会责任理念与实践，了解中材建设为实现经济、社会可持续发展所做出的不懈努力。

本报告采用《联合国全球契约年度进展报告实践指南编写、分享和公布COP》推荐的内容和形式提纲编写，报告有中英文对照版，报告审核以中文为准。

本报告时间范围为2021年1月至12月。报告每年发布一次，组织范围为中材建设有限公司所属职能部门、分（子）公司及项目经理部。

为了在更大范围内宣传履行社会责任的知识、理念，确保履行社会责任年度报告编制素材来源的广泛性、专业性以及质量，中材建设成立了履行社会责任年度报告编写领导小组和编写机构，认真学习了《联合国全球契约年度进展报告实践指南》等指导文件。全球契约中国网络的专家对部分参与报告编写人员进行了具体培训和指导。

本报告中所涉及财务数据符合国家颁布的《企业会计准则》和《企业会计制度》的规定。

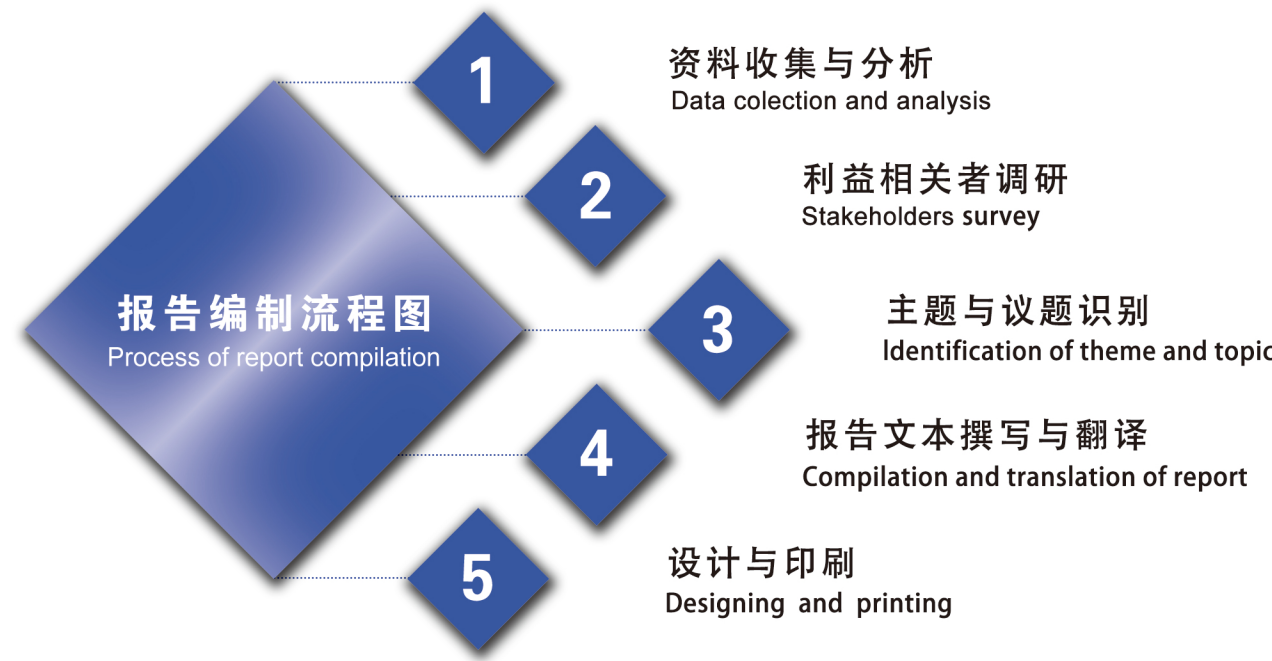
This report reflects the true record of continuous improvement made by CBMI Co., Ltd. (hereinafter referred to as "CBMI") in performing social responsibility in 2021. Through this report, employees, customers, partners, subcontractors, shareholders and contributors of the enterprise, various competent authorities of the state, social organizations and all relevant persons concerning the development of CBMI can understand the concept and practice of social responsibility of CBMI, and understand the unremitting efforts made by CBMI to realize the sustainable development of economy and society.

This report is prepared with the contents and form outline recommended in Practical Guideline for Annual Progress Report of United Nations Global Compact-Preparation, Sharing and Publishing COP. This report is written in Chinese and English, and the Chinese version shall prevail in review of the report.

The period of this report is from January to December 2021. This report is issued once every year with the organization of functional departments, branches, subsidiaries and Project Management Department of CBMI Construction Co., Ltd.

In order to publicize the knowledge and concept for performance of social responsibility, ensure the universality, specialty and quality of materials used for preparation of annual report of performing social responsibility, CBMI establishes a leading group of preparing annual report of performing social responsibility and preparation organization, and study Practical Guideline for Annual Progress Report of United Nations Global Compact and other guiding documents earnestly. The experts of Chinese network of Global Compact provide specific training and guidance for some personnel participating in the preparation of the report.

The financial data involved in this report conform to the provisions of Accounting Standard for Business Enterprises and Accounting System for Business Enterprise issued by the state.



欲在线阅读《中材建设2021年度社会责任报告》电子版，请访问中材建设网站<http://www.cbmi.com.cn>。
《中材建设2021年度社会责任报告》已经提交联合国“全球契约”办公室指定的网站<http://www.unglobalcompact.org>。

To read the electronic edition of Social Responsibility Report of CBMI in 2021 online, please visit the website of CBMI: <http://www.cbmi.com.cn>.
The Social Responsibility Report of CBMI in 2021 has been submitted to the designated website of United Nations "Global Compact" Office: <http://www.unglobalcompact.org>.

执行董事致辞

Speech from executive director



中材建设有限公司 执行董事、童来苟

Tong Laigou, Executive Director of CBMI Construction Co., Ltd.

中材建设将全球契约十项原则视为企业战略和业务中不可或缺的一部分，并在整个企业中承诺，将传达到各级管理人员和全体员工中，以确保这些原则得到广泛履行。

CBMI deems the Ten Principles of the UN Global Compact as an indispensable part of corporate strategy and business, and undertakes to pass down such principles to the management and all staff, ensuring that such principles are widely performed.

中材建设积极践行联合国“全球契约”在人权、劳工、环境及反腐败领域所推崇的十项原则，关注对利益相关方的影响，履行相应的社会责任，不断推动企业、经济、环境和社会的可持续发展。

中材建设公开承诺，遵循“全球契约”持续改进理念，继续改善在人权方面非歧视用工、杜绝童工、不强制劳动和保护本地劳工权利等状况；保护全体作业工人职业健康和人身安全，保障他们的劳动所得，关心他们的职业发展；推广和使用新技术，节约能源，减少排放，保护环境；建设公平公正文化，推进反腐败工作进程。

当前，世纪疫情和百年变局交织，国际格局深刻演变。机遇与挑战并存，中材建设全面贯彻落实国家“走出去”发展战略和“一带一路”倡议，着力建设具有时代特征和公司特色的责任理念，强化责任沟通，提升责任能力，积极主动履行各项社会责任，保障员工健康、施工安全，改善环境治理，大力建设环境友好型企业与劳动关系和谐企业，积极投身公益事业，持续推进负责任、可持续的海外运营，与各利益相关方携手合作，共同实现经济效益、社会责任和环境保护三者的平衡发展。

中材建设始终秉承“创新、绩效、和谐、责任”的核心价值观，善用资源，以诚信的理念、务实的作风、高效的管理，竭诚为客户服务。同时持续在经营活动中注入多元的社会责任要求，为加快建设具有全球竞争力的国际一流工业工程公司而不懈奋斗。

CBMI actively practices the Ten Principles of the UN Global Compact in terms of human rights, labor, environment and anti-corruption, follows influence on stakeholders, performs the corresponding social responsibilities, and continuously advances sustainable development of enterprise, economy, environment and society.

CBMI openly undertakes to the tenet of continuous improvement of "Global Compact", and keeps improving human rights conditions on non-discrimination labor, prevention on children labor, encouragement of voluntary labor and safeguarding local labor rights. The company protects occupational health and personal safety of all workers, safeguards their labor earnings and cares for their career development; promote and use new technologies, converse energy, cut emission and protect environment; build an equal and fair culture and advance anti-corruption undertakings.

With the COVID-19 and centennial change, the international situation undergoes profound evolution. With coexistence of opportunities and challenges, CBMI fully implements the national "Go globally" development strategy and "Belt and Road" Initiative and strives to build a responsible system with social and corporate characteristics. The Company enhances communication capacity on responsibility, actively performs social responsibility and safeguard staff health and construction safety. The Cpany improves environment governance and attaches great importance to the building of an environment-friendly enterprise, labor relation and harmonious enterprise. CBMI actively involves in social causes, advances a responsible and continuous overseas operation and joined hands with stakeholders to achieve balanced development of economic benefits, social responsibilities and environment protection.

CBMI upholds the core values of "innovation, performance, harmony, responsibility", and makes good use of resources to sincerely serve customers by honest ideas, practical style and efficient management. CBMI instills diverse social responsibility requirements in business activities and keeps working towards an esteemed world-class industrial engineering company with global competitiveness.

企业简介

About the Company

中材建设办公大楼 中材大厦
CBMI Building, office building of CBMI



企业概况

Company Profiles

中材建设隶属于中国建材集团旗下的中国中材国际工程股份有限公司，已有六十多年的历史，注册于中国河北省唐山市，总部设在北京经济技术开发区，通过ISO9001质量管理、ISO14001环境管理和ISO45001职业健康安全管理三体系认证，企业信用等级连续多年保持AA级。

中材建设是一家集咨询、设计、供货、施工、运维于一体的工业工程总承包公司；是国家高新技术企业，具有国家工程总承包一级资质、对外经营权和进出口权；是全面贯彻落实国家“走出去”发展战略和“一带一路”倡议，率先进入国际水泥工程市场的开拓者和领先者；是承建世界大型跨国水泥集团项目最多的中国工程企业。中材建设以前瞻的战略思维和全球化的视野，在中国水泥工业建设史上创造了诸多业内第一，在国际水泥工程领域树立了良好的品牌形象和市场影响力，为中国水泥技术装备开拓国际市场发挥了积极作用。

CBMI is affiliated with Sinoma International Engineering Co., Ltd. under the China National Building Materials Group Corporation. With a history of over 60 years and incorporated in Tangshan, Hebei, China, CBMI is based in Beijing Economic Technological Development Area. The Company has passed ISO9001 quality management, ISO14001 environment management and ISO45001 occupational health and safety management, and the enterprise credit level was AAA for a number of years.

CBMI is an industrial engineering EPC company engaged in counseling, design, supply, construction, operation and maintenance; a new high-tech enterprise, and has national engineering EPC level I qualification, foreign business right, import and export right; The Company fully implements the national "reach out" development strategy and "Belt and Road" Initiative, it is the pioneer and leader in entering the international cement engineering market. CBMI is a Chinese engineering enterprise that has undertaken most projects of the world's big cement multinational corporations. With its forward-looking strategic thinking and global vision, CBMI has created many industry firsts in the history of China's cement industry construction. The Company has forged a good brand image and market influence in the international cement engineering field and plays an active role for Chinese cement equipment technology to seize the international market.

业务领域

Business fields

主营业务

Main businesses

中材建设主营业务为水泥工程项目总承包，具有完整的EPC总承包服务链，可针对不同客户需求及环境特点，在各种规模水泥生产线的工程咨询、设计研发、设备制造和成套、土建安装、生产调试、备品备件、售后服务和生产管理等方面，为客户提供“EPC+”个性化“总承包”集成服务。

近年来，中材建设积极探索和推进国际化、数字化、属地化、多元化、产业化发展战略，在建筑、冶金、电力、市政、环保和主营业务延伸等方面进行了有效的尝试，开发和推广节能、环保、低排放的水泥生产项目的改造技术，以及利用余热发电、脱硫脱硝技术等。

With general contracting of cement project as its main business, CBMI has a complete EPC general contracting service chain, and can provide "EPC +" individualized "general contracting" integration service in the project consulting, design and R&D, equipment manufacturing and assembly, civil installation, production and commissioning, spare parts, after-sales service and production management etc. of various scales of cement production lines according to the different customer demands and environmental characteristics.

In recent years, CBMI has actively explored and promoted the internationalized, digitized, localized, diversified and industrialized development strategies, has made effective attempts in building, metallurgy, electric power, municipal engineering, environmental protection and extension of main businesses etc., developed and promoted the reconstruction technology of energy-saving, environment-friendly and low-emission cement production projects and utilized cogeneration, desulfuration, etc.



经营规模

Operation scale

目前中材建设95%左右业务集中在海外，遍布欧亚非美，客户资源主要集中在拉豪、西迈克斯、海德堡、老城堡等高端跨国水泥集团，在国内外具有良好的品牌优势和美誉度。

中材建设累计在全球50多个国家承建水泥生产线200余条，签约合同总额超640亿元。在中国水泥工业建设史上，承建了全球最大的水泥厂项目，中国国内水泥行业大多数的水泥生产线重点项目，其中包括绝大多数外商投资项目和规模超过日产4000吨以上水泥熟料的生产线。

中材建设创造了多项业内第一，包括国内首条日产万吨水泥生产线、国内首条全套引进技术生产线、首条自行开发干法旋窑生产线、首条中外合资生产线、首个国际总承包模式“交钥匙”项目，并首次向欧洲国家出口水泥生产线成套设备等。

中材建设千余人的职工队伍可在全球十几个国家同时开展超100亿元人民币投资额、20多个项目的建设工作。

At present, over 95% of CBMI's businesses are abroad and distributed in Europe, Asia, Africa and America. Its customers are mainly focused in high-end cement multinational corporations in LafargeHolcim, CEMEX, Heidelberg and CRH. The Company has good domestic and overseas brand advantage and recognition.

CBMI has built more than 200 cement production lines in more than 50 countries around the world, with signed contract amount over RMB 64 billion. CBMI has undertaken the world's largest cement plant project in the history of China's cement industry construction and the most important projects of cement production lines in China, including the majority of foreign-funded project and the cement clinker production line with daily output over 4,000 tons.

CBMI has created many domestic first, including the domestic first cement production line with daily output of 10,000 tons of cement, domestic first production line of wholly imported technology, first proprietary dry rotary kiln production line, first Chinese-foreign joint venture production line, first international "turnkey" project, and first export of complement equipment of cement production line to European countries.

With more than 1000 employees, CBMI can construct more than 20 projects with an investment amount more than RMB 10 billion in dozen countries around the world simultaneously.





治理结构

Governance structure

中材建设是按照《中华人民共和国公司法》组建的有限责任公司，依照《中材建设有限公司章程》设立执行董事、监事和经营班子。公司下设安全生产委员会、招标管理委员会、技术委员会、经营风险控制管理领导小组及工作小组、风险管理与内部控制领导小组、全面预算管理领导小组、保密等专业委员会，管控企业经营风险，监督企业合规经营。

公司每月定期或不定期召开总经理办公会，并按照《中材建设有限公司章程》和《总经理工作细则》开展工作，对企业的生产、经营、管理等工作进行决策。

CBMI is a limited liability company established according to Company Law of the People's Republic of China, and establishes executive directors, supervisors and operation team according to Articles of Association for CBMI Co., Ltd. The Company has professional committees under it, such as Safety Production Committee, Bidding Management Committee, Technical Committee, Leading Group and Working Group of Business Risk Control Management, Risk Management and Internal Control Leading Group, Overall Budget Management Leading Group and Confidentiality Committee to manage and control the enterprise operation risks and supervise compliance operation of the enterprise.

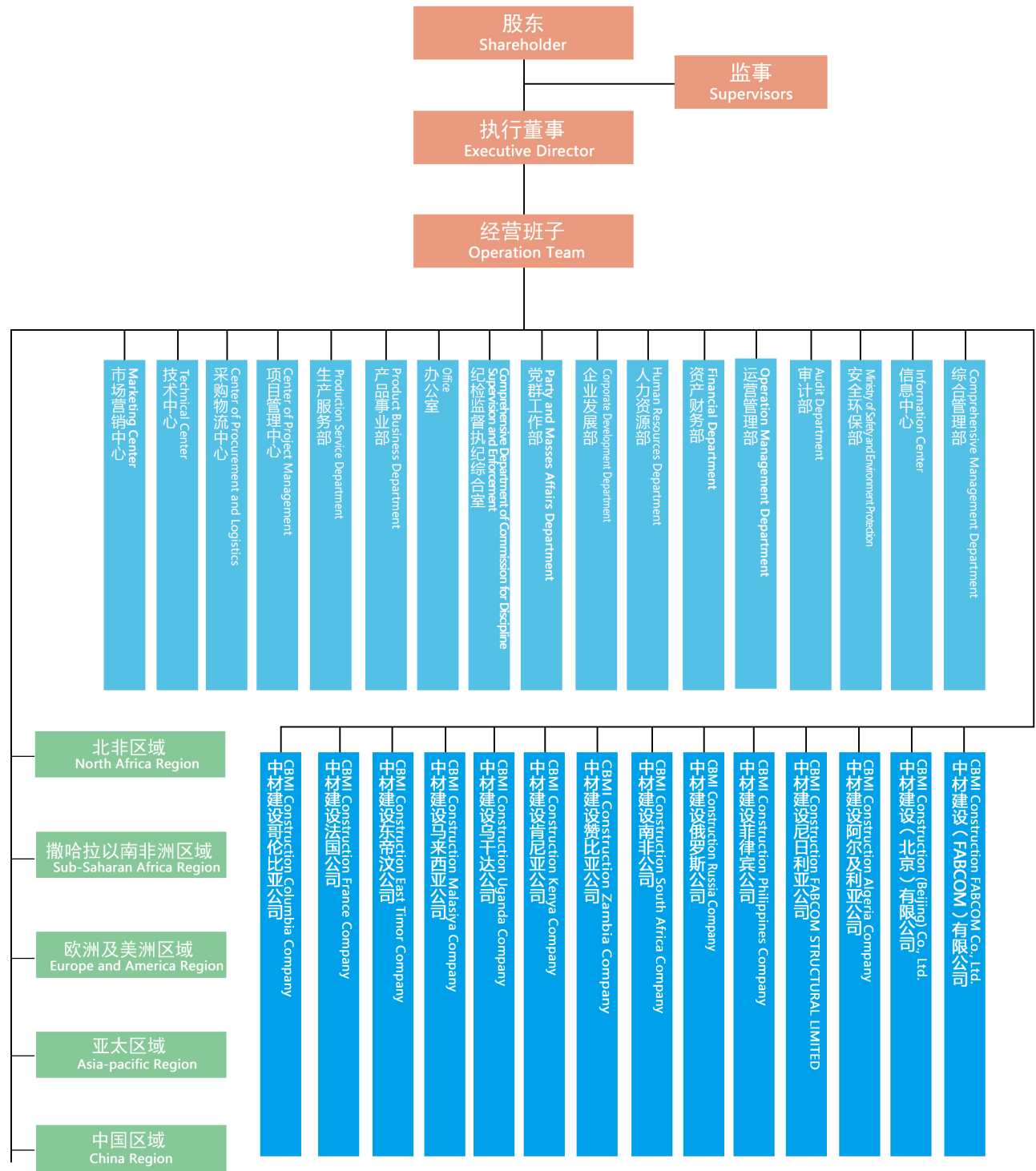
The Company holds a General Manager office meeting regularly or irregularly on a monthly basis and carries out work according to Articles of Association for CBMI Co., Ltd. and Work Regulations of General Manager to make decisions on production, operation and management of the enterprise.

中材建设组织机构图

Organizational Structure Chart of CBMI

中材建设有6个业务部门、11个职能部门；项目实施分为5大区域管理；有2家法人单位，12家属地化公司。

CBMI has 6 business departments and 11 functional departments; the management of project implementation is divided into 5 regions; there are 2 legal entities and 12 localized companies.



利益相关方信息

Stakeholders Involved

利益相关方概括列表

Overview of Stakeholders

利益相关方 Stakeholders		利益关系 Relationship	沟通方式 Means of Communication
股 东 Shareholder	中材国际工程股份有限公司 Sinoma International Engineering Co., Ltd.	全资子公司 Wholly owned subsidiary	总经理办公会 Office Meeting of General Manager
客 户 Clients		客户服务 Client service	业务往来 Business contact
职工一 Staff I	在册职工 Registered Staff	劳资关系 Labor relations	合同、工会 Contract and trade union
职工二 Staff II	国内雇佣劳工 Domestic Employees		
职工三 Staff III	国外项目所在地雇佣劳工 Foreign project-based employees		
供应商一 Supplier I	技术设计分包 Technical design subcontract	业务分包 Business subcontract	业务往来 Business contact
供应商二 Supplier II	采购业务分包 Purchase business subcontract		
供应商三 Supplier III	国外项目所在地雇佣劳工 Foreign project-based employees		

利益相关方 Stakeholders		利益关系 Relationship	沟通方式 Means of Communication
社区一 Community I	公司、项目所在地政府 Local government	政策法规相关 Relevant policies and laws	会议及约访 Conference and visits
	国家税务总局唐山市丰润区税务局 Tangshan Fengrun District Taxation Bureau of State Administration of Taxation	税收征管 Tax collection and management	
	交通银行、中国银行等商业银行 Bank of Communications, Bank of China and other commercial banks	资金存取、信贷、 保函业务等 Access, credit, and guarantee, etc.	
	唐山市住房公积金管理中心 Tangshan Housing Provident Fund Management Center	职工住房公积金管理 Management of employees' housing accumulation fund	
	北京市住房公积金管理中心 Beijing Housing Fund Management Center		
	天津市住房公积金管理中心 Tianjin House Fund Management Center		
	会计师事务所 Accounting firm		
	年度财务报告审计等 Auditing of annual financial statement		
	国家外汇管理局唐山市中心支局 Tangshan Central Branch of the State Administration of Foreign Exchange	外汇管理 Foreign exchange management	
国家税务总局唐山市税务局第二税务分局 No.2 Taxation Branch of Tangshan Taxation Bureau of State Administration of Taxation	出口退税 Export rebates		
社区二 Community II	公司、项目所在地居民 Local residents	经济、就业、环境相关 Economy, employment and environment	
社区三 Community III	公司、项目所在地社团组织 Local social organizations	工会、信息等专题相关 Trade union, information and other special topics	
总部、分公司和项目所在地新闻媒体 News media covering the headquarters, branches and projects of the company		信息、广告 Information and advertisement	采访 Interview

参加国内外主要的社会团体

Membership Involved

序 号 No.	名 称 Name	公司角色 Position of CBMI
1	联合国“全球契约”组织 United Nations Global Compact	成员 Member
2	中国建材工程建设协会 China National Building Materials Construction Association	副会长单位 Vice Chairman
3	中国水泥协会 China Cement Association	副会长单位 Vice Chairman
4	中国施工企业管理协会 China Association of Construction Enterprise Management	理事单位 Council Member
5	中国对外承包工程商会 China International Contractors Association	理事单位 Council Members
6	中国建筑业协会 China Construction Industry Association	理事单位 Council Members
7	中国建筑材料企业管理协会 China Association of Construction Enterprise Management	会员 Memder

2021年度所获荣誉

Honors in 2021

序 号 No.	授予单位 Granting Organization	荣誉名称 Honors
1	中国建筑业协会 China Construction Industry Association	2021年工程建设质量管理小组活动成果大赛Ⅲ类成果 ——大吨位桩基静载试验加载系统创新 Class III Achievement of 2021 Engineering Construction Quality Management Group Activity Achievement Competition - Innovation of Loading System for Static Load Test of Large Tonnage Pile Foundation
2	中国施工企业管理协会 China Association of Construction Enterprise Management	2020-2021年度第二批国家优质工程奖 ——南非PPC SK9 3000TPD熟料生产线总承包项目 The Second Batch of National Quality Engineering Awards in 2020-2021 - EPC Project for PPC SK9 3000TPD Clinker Production Line in South Africa
3	中国建材工程建设协会 China National Building Materials Construction Association	2021年中国建材工程建设优秀工程项目管理二等奖 ——俄罗斯长城汽车年产15 万辆整车厂项目 Second Prize of Excellent Project Management of China Building Materials Engineering Construction in 2021 - Great Wall Motor Factory Project with an Annual Output of 150,000 Vehicles in Russia
4	中国建材工程建设协会 China National Building Materials Construction Association	2021年中国建材工程建设优秀工程总承包项目二等奖 ——阿尔及利亚BC 2×6000TPD 水泥生产线总承包项目 Second Prize of Excellent EPC Project of China Building Materials Engineering Construction in 2021 - EPC Project for BC 2 × 6000TPD Cement Production Line in Algeria
5	中国建材工程建设协会 China National Building Materials Construction Association	2021年中国建材工程建设优秀工程总承包项目一等奖 ——阿尔及利亚BECHAR 3200TPD 水泥生产线总承包项目 First Prize of Excellent EPC Project of China Building Materials Engineering Construction in 2021 - EPC Project for BECHAR 3200TPD Cement Production Line in Algeria
6	中国建材工程建设协会 China National Building Materials Construction Association	2021年中国建材工程建设优秀工程总承包项目一等奖 ——阿尔及利亚ZAHANA 4500TPD熟料水泥生线总承包项目 First Prize of China Building Materials Engineering Construction Excellent Project EPC Project in 2021 - EPC Project for ZAHANA 4500TPD Clinker Cement Production Line in Algeria
7	中国建材工程建设协会 China National Building Materials Construction Association	2021年中国建材工程建设优秀工程总承包项目二等奖 ——肯尼亚NAI030年产100万吨粉磨站总承包项目 Second Prize of Excellent EPC Project of China Building Materials Engineering Construction in 2021 - EPC Project for NAI030 Grinding Station with an Annual Output of 1 Million Tons in Kenya
8	中国建材工程建设协会 China National Building Materials Construction Association	2021年中国建材工程建设优秀工程总承包项目二等奖 ——南非PPC SK9 3000TPD 熟料生产线总承包项目 Second Prize of Excellent EPC Project of China Building Materials Engineering Construction in 2021 - EPC Project for PPC SK9 3000TPD Clinker Production Line in South Africa
9	中国建材工程建设协会 China National Building Materials Construction Association	2021年中国建材工程建设优秀工程总承包项目二等奖 ——尼日利亚EDO二线 6000TPD 水泥熟料生线总承包项目 Second Prize of Excellent EPC Project of China Building Materials Engineering Construction in 2021 - EPC Project for EDO Second-line 6000TPD Cement Clinker Production Line in Nigeria
10	中国建材工程建设协会 China National Building Materials Construction Association	2021年中国建材工程建设优秀工程总承包项目二等奖 ——乌干达HIMA TOR030粉磨站总承包项目 Second Prize of Excellent EPC Project of China Building Materials Engineering Construction in 2021 - EPC Project for HIMA TOR030 Grinding Station in Uganda
11	中国建筑材料企业管理协会 China National Building Materials Construction Association	2021年度全国建材企业管理现代化创新成果（案例） ——法国MK3项目智慧建造 Innovation Achievements of Management Modernization of National Building Materials Enterprises in 2021 (Case) - Smart Construction of MK3 Project in France

理念战略

Concept strategy

企业战略及理念

Enterprise strategy and concept

中材建设全面贯彻落实集团“4335”指导原则、中材国际“1236”发展战略和公司“13558”发展战略，以创新驱动发展、以改革赋能发展、以国际化促进发展、以党建引领发展，致力打造“国际一流工业工程公司”。

CBMI fully implements the Corporation's "4335" Guideline, Sinoma International's "1236" development strategy and its own "13558" development strategy. To drive development through innovation, empower development through reform, promote development through internationalization and lead development through Party building, CBMI is dedicated to building a "world-class industrial engineering company".

一个定位

One position

国际一流工业工程公司
International first-class industrial engineering company

三大主业

Three main businesses

水泥工程、多元工程、产品发展
Cement engineering, diverse engineering, and industrial development

五化方向

Five directions

国际化、数字化、属地化、多元化、产业化
Internationalization, digitization, localization, diversification and industrialization

五大区域中心

Five Regional Centers

阿尔及利亚、尼日利亚、菲律宾、俄罗斯、南非
Algeria, Nigeria, Philippines, Russia, South Africa

八八目标

"Eight-Eight" Goal

十四五末实现营业收入80亿元，利润总额8亿元
By the end of the "14th Five-Year Plan", the operating income will be RMB 8 billion and the total profit will be RMB 800 million

13558

中材建设“十四五”
发展战略

CBMI Construction's "14th Five-year"
development strategy



企业战略及理念

Enterprise strategy and concept

核心价值观 Core Values

创新、绩效、和谐、责任
Innovation, performance, Harmony, Responsibility

核心理念 Core ideas

善用资源、服务建设
Utilize Resources Fully and Serve Construction

行为准则 Core of conduct

敬畏、感恩、谦恭、得体
AWE、GRATEFUL、COURTEOUS、DECENT

企业愿景 Coreporate visuon

致力于打造“规模适度、效益一流、事业有成、待遇优越、受人尊重”的国际一流工业工程公司
Build the Company into an international first-class industrial engineering company with "appropriate scale, first-class benefit, successful business, superior treatment and respect by others"

社会责任理念与推进

Social responsibility concept and promotion

中材建设积极践行“为当地经济做贡献、与当地企业合作、与当地人民友好相处”三原则，2005年加入联合国契约组织，切实履行社会责任，以实际行动“讲好中国故事”。结合项目情况，大力推广水泥窑利用可替代燃料等绿色节能环保技术；积极投身于当地公益事业中，修建项目所在地周边道路、社区公园；支持当地教育，援建当地学校，帮助项目当地困难职员；积极推进“海外用工本土化”，为当地提供大量就业岗位。

CBMI actively implements three principles of contribution to local economy, cooperation with local enterprises and good relationship with local dwellers. In 2005, CBMI joined United Nations Global Compact, substantively performed social responsibility and "told Chinese stories" by real action. CBMI Construction forcefully promotes the green, energy saving and environmental technology of applying alternative fuel to the cement kiln. The Company is actively engaged in local utilities and builds surrounding roads and community parks. The Company supports local education, school and helps local employees in need; actively promote "overseas employee localization" and provide plenty of local jobs.



管理运营

Management operation



加强业务建设 确保优质服务

Strengthen business construction and ensure high-quality service

制度体系建设

Construction of institutional system

制度建设

2021年，中材建设持续强化公司制度体系建设。持续废改立工作，截止至2021年底计划内累计废止25项、修订48项、新立33项；计划外累计废止1项、修改18项、新立24项。

Institutional construction

In 2021, CBMI continued to strengthen the construction of the Company's institutional system, and has continued to abolish, revision and establishment. By the end of 2021, as planned, 25 items were abolished, 48 items revised and 33 new items established; beyond the plan, 1 item was abolished, 18 items revised and 24 new items established.



制度废改立工作小组专题会议

System "recycling" work group meeting

加强业务建设 确保优质服务

Strengthen business construction and ensure high-quality service

体系建设

2021年，中材建设持续加强质量、环境、职业健康安全三体系建设，完成公司三体系监督审核工作。组织三体系内部审核工作，完成江西高安（红狮）项目三体系内审并对现场进行了体系培训。完成江西高安（红狮）项目、公司总部各部门三体系外部审核工作。

System construction

In 2021, CBMI continued to strengthen the construction of the three systems of quality, environment and occupational health and safety, and completed the supervision and audit of the three systems of the Company. The Company organized the internal audit of the three systems, completed the internal audit of the three systems of Jiangxi Gao' an (Hongshi) Project, and conducted the system training on site. Also, CBMI completed the external audit of the three systems of Jiangxi Gao' an (Hongshi) Project and of each department of the headquarters.



江西高安（红狮）三体系内审

Internal Audit of Three Systems of Jiangxi Gao' an (Hongshi) Project



江西高安（红狮）项目体系培训

System Training of Jiangxi Gao' an (Hongshi) Project

业务功能建设

Construction of business function

技术设计与研发

2021年，中材建设加大产学研资源协作，联合西南科技大学成功揭榜中国建筑材料联合会“基于活化铝硅酸盐的绿色低碳胶凝材料研发与应用示范”项目。设立了替代燃料、黏土煅烧、富氧燃烧三个节能降碳技术攻关组，致力于加快推进公司在水泥行业节能降碳技术研发及应用。

2021年，全面推进数字化设计，所有新开工完整线施工项目采用数字化设计和数字化设备采购提资。根据公司数字化发展战略，深入推进数字化转型“365”行动计划，通过数字化手段为业务赋能，并利用历史数据，实现准确敏捷的商务报价。以专业室的需求和业务要求为导向，深耕基础工作，继续提升数字化设计效率。打通数据通道，提升供应链整体管理水平。加快落地应用，逐步提升建造智能化水平。应用4D任务管理平台，尝试将4D模型的工程量导出，作为数字化结算的工程量依据，并在法国MK3项目预热器车间进行试点。

Technical design and development

In 2021, CBMI strengthened the industry-university-research cooperation in resources, and successfully unveiled the project titled with “R&D and Application Demonstration of Green Low-carbon Cementitious Materials Based on Activated Aluminosilicate” of China Building Materials Federation in conjunction with Southwest University of Science and Technology. CBMI set up three groups engaged in research on energy-saving and carbon-reducing technologies, namely, alternative fuels, clay calcination and oxygen-enriched combustion, and was committed to accelerating the R&D and application of energy-saving and carbon-reducing technologies of the Company in the cement industry.

In 2021, CBMI advanced digital design in an all-round way, adopted digital design for all newly started complete line construction projects, and provided data concerning the purchase of digital equipment. According to the Company's digital development strategy, CBMI further promoted the “365” action plan for digital transformation, empowered the business through digital means, and used historical data to achieve accurate and agile commercial quotation. Guided by professional needs and business requirements, CBMI deepened the basic work and continued to improve the efficiency of digital design. In addition, CBMI opened up data channels, improved the overall management level of supply chain, accelerated the landing application and gradually improved the intelligent level of construction. CBMI applied the 4D task management platform, attempted to derive the work quantity of 4D model as the work quantity basis of digital settlement, and implemented a pilot project in preheater workshop of MK3 Project in France.



揭榜挂帅项目任务签约书-中国建筑材料联合会-基于活化铝硅酸盐的绿色低碳胶凝材料研发与应用示范
Engagement Letter of Unveiled Project -China Building Materials Federation-R&D and Application Demonstration of Green Low-carbon Cementitious Materials Based on Activated Aluminosilicate

加强业务建设 确保优质服务

Strengthen business construction and ensure high-quality service



阿尔及利亚BECHAR 3200T/D熟料水泥EPC项目获得优秀工程设计一等奖
BECHAR 3200T/D Clinker Cement EPC Project in Algeria won the first prize of Excellent Engineering Design



阿尔及利亚ZAHANA 4500T/D熟料水泥EPC项目获得优秀工程设计二等奖
ZAHANA 4500T/D Clinker Cement EPC Project in Algeria won the second prize of Excellent Engineering Design



拉豪尼日利亚EWE 23T/D煤磨项目获得优秀工程设计二等奖
HOLCIM EWE 23T/D Coal Mill Project in Nigeria won the second prize of Excellent Engineering Design

采购物流管理

2021年，中材建设完成设备物资采买和物流运输合计人民币17.3亿元，完成合同1588个。全年发运散杂货船30条，发运货物17.37万立方米，8.6万吨，实现出口额2亿美元，国内外陆运输直采率77.8%。

采购物流工作坚持效益优先效率优先。创新管理系统策划，全面推进采购物流业务KPI指标管理，创新采购物流业务模式，降本增效多措并举，强化内部协同实施全流程容重比管控，利用互联网技术推动供货商远程在线服务，通过平台建设强化计划和合规管理，初步完成采购物流数字化管理平台搭建。

Logistics Management

In 2021, CBMI completed the purchase, logistics and transportation of equipment and materials, totaling RMB 1.73 billion, and completed 1,588 contracts. In the whole year, CBMI dispatched 30 bulk cargo ships, with 173,700 cubic meters and 86,000 tons of goods shipped, achieving an export value of USD 200 million and a direct purchase rate of 77.8% for inland transportation abroad.

CBMI gave priority to benefit and efficiency in terms of purchasing logistics, implemented innovative planning of management system, and comprehensively promoted KPI management of purchasing logistics business. In addition, CBMI innovated the purchasing logistics business model, simultaneously took measures to reduce costs and increase efficiency, strengthened the internal cooperative implementation of the whole process control of volume-to-weight ratio, used Internet technology to promote remote online service of suppliers, strengthened planning and compliance management through platform construction, and initially completed the construction of digital management platform for purchasing logistics.



物流发运 Logistics delivery

加强业务建设 确保优质服务

Strengthen business construction and ensure high-quality service

生产运营及调试业务

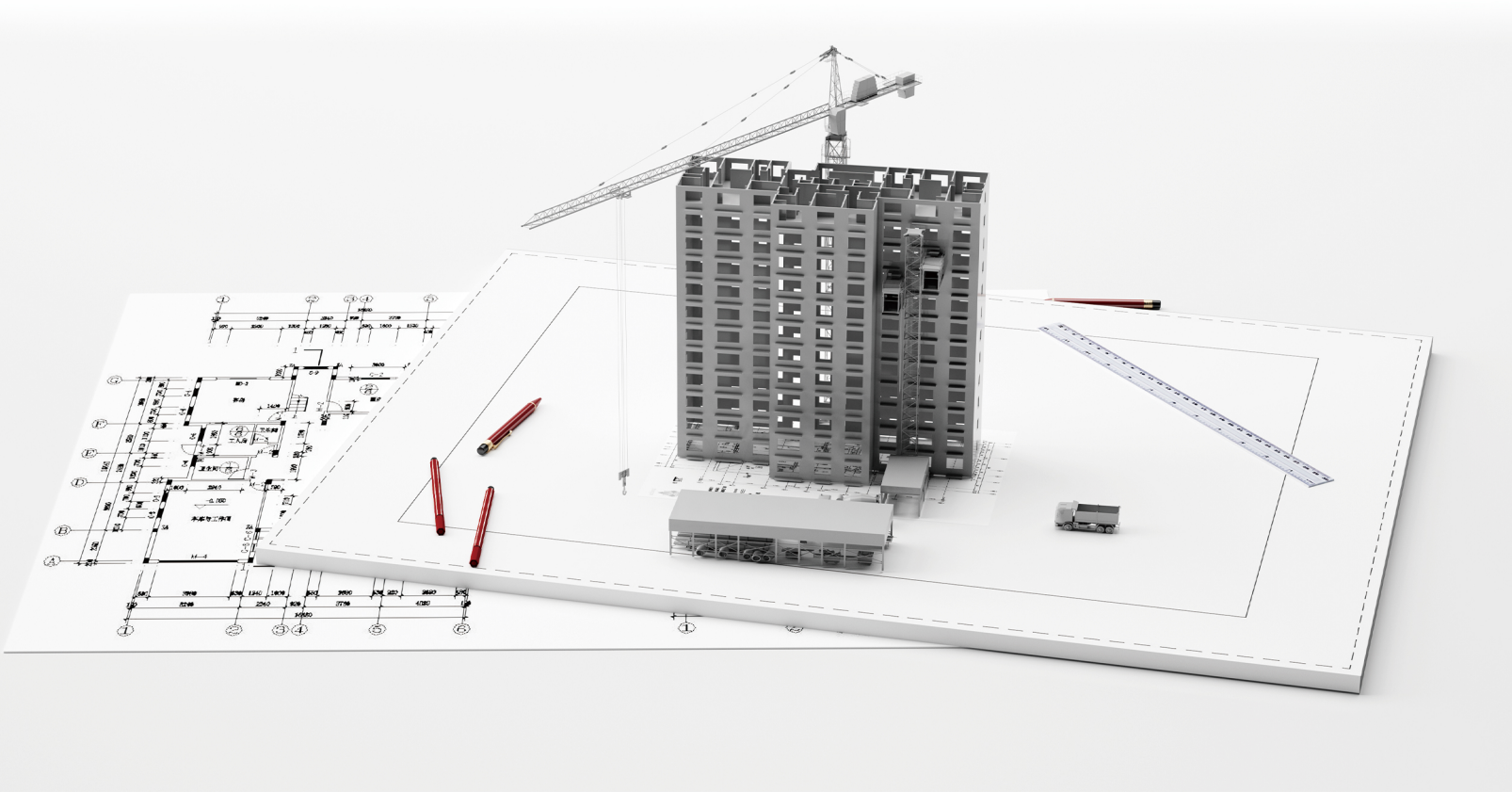
2021年，中材建设生产运营聚力服务、提产保运，熟料生产和矿山开采产量再创新高，尼日利亚ED0生产运营稳定增长，助力业主实现水泥销售420万吨；尼日利亚S0K0T0生产运营年度产量完成率120%，运转率达到93%，获得业主超产奖金；“水泥工程+”备件业务创新数字化平台载体激发活力，市场占有率进一步提升，备件签约额 6,670 万元、同比增长 5%，利总同比增长 5.7%。

调试服务创新采用“互联网+调试”模式。利用数字化手段，助力项目调试按计划获得PAC证书。创新“水泥工程+备件”销售模式，制定《备件数字化平台管理办法》。实现备件业务管理的专业化、科学化、规范化。2021年签订备件合同额6676万元，拓展新客户26家，同比增长38.8%，实现稳步增长。

Production, operation and commissioning

In 2021, CBMI attached parallel importance to pandemic prevention and production and secures continuous and steady growth of production and operation. The company achieved new breakthroughs and created outstanding performance of yearly production and services. CBMI focuses on two objectives of cost reduction and effectiveness enhancement, output enhance and transport security. CBMI provides precise services in terms of personnel security, spare parts consumption and production technology support. In 2021, CBMI created new highs in production and operation performance. The CBMI had a yearly output of clinker 4.58 million tons, mine output totaling 9 million tons, output value of USD 65.3 million, a year-on-year growth of 29.7%. The company's average operating rate of the rotary kiln reached 87%.

CBMI adopts “Internet+Commissioning” mode. Based on the successful commissioning of Guinea vertical milling, the digital means are adopted to assist 4 projects’ scheduled acquisition of PAC certificate. Through innovative “cement engineering+spare parts” sales mode, the company, in 2021, signed the spare parts contract amount of RMB 63.5 million, secured 13 new customers and achieved steady growth.



加强业务建设 确保优质服务

Strengthen business construction and ensure high-quality service

企业职能管理

Corporate Function Management

人力资源

2021年，中材建设坚持“让自己成为人才，让人才成就自己”的人才观，培养一批“有学习能力、有市场意识、有专业水准、有敬业精神、有思想境界”的人才队伍，不断提升企业高质量发展的人才保障能力。不断加强制度建设，编制修订了《因私事出国（境）管理办法》、《后备干部管理办法》、《项目经理任职资格实施细则》、《工资总额管理办法（试行）》、《内部竞聘办法》、《培训管理办法》、《员工公开招聘管理办法》、《外聘人员管理办法》、《经营管理人员薪酬管理办法（试行）》、《企业负责人履职待遇、业务支出管理细则》、《员工绩效考核管理办法》，不断完善、规范公司人才培养及内部经营管理，切实推进人才培养和人才梯队建设。同时，紧紧围绕公司“市场开拓、项目管理、数字化及智慧建造、属地化经营、产业化发展、机制改革”几项重点工作制订年度培训计划，并在培训中努力探索创新培养模式，将人才培养与公司战略紧密结合，积极整合内外部多种资源。

在疫情的大环境下，以线上线下相结合，内训为主外训为辅，理论与实践相结合等多种形式，对优秀干部、青年人才进行高强度的培训，对专业人员进行时事动态、行业前瞻、管理能力和业务实战能力培训，为公司“十四五”开局提供智力 and 技能支持。全年总计完成55项，其中内部培训19项，外请讲师培训11项，外派培训14项，线上学习11项，培训涉及人数总计6773人次，圆满完成了年初制定的培训计划，取得了良好的培训效果。完成职称申报62人；资质取证、复审72人。

Human Resources

In 2021, CBMI adhered to the talent concept of “making yourself a talent and making talents realize their value”, trained a group of talents with “learning ability, market awareness, professional skills, professionalism and ideological level”, and continuously improved the talent guarantee ability required by its high-quality development. CBMI constantly strengthened system construction, prepared and revised Measures for the Administration of Going Abroad for Private Affairs, Measures for the Administration of Reserve Cadres, Detailed Rules for the Implementation of Project Manager’s Qualification, Measures for the Administration of Total Wages (Trial), Measures for Internal Post Competition, Training Management Measures, Measures for the Administration of Open Recruitment of Employees, Measures for the Administration of External Employees, Measures for the Administration of Salary of Management Personnel (Trial), Detailed Rules for the Administration of Performance Treatment and Business Expenses of Enterprise Heads, and Measures for the Administration of Employee Performance Appraisal, constantly improved and standardized the Company’s personnel training and internal management, and earnestly promoted personnel training and talent echelon construction. At the same time, CBMI formulated the annual training plan closely around the Company’s key tasks, including “market development, project management, digitalization and smart construction, localized operation, industrialization development and system reform”, made efforts to explore innovative training modes in training, closely integrated personnel training with the Company’s strategy, and actively integrated internal and external resources.

In response to the COVID-19 pandemic, CBMI provided high-intensity training for outstanding cadres and young talents, and trained professionals on current affairs, industry foresight, management ability and business practice ability by combining online and offline forms, taking internal training as the main way and external training as the supplement, and combining theory and practice, so as to provide intellectual and skill support for the Company’s “14th Five-Year Plan”. A total of 55 training projects were completed throughout the year, including 19 internal training projects, 11 training projects by external lecturers, 14 external training projects and 11 online learning projects, involving a total of 6,773 person-times. The training plan formulated at the beginning of the year was successfully completed and good training results were achieved. 62 people completed the title declaration; 72 people obtained qualification certificates and accepted qualification review.



公司组织国内水泥行业发展现状和动态研讨会
Seminar on the development status and trends of domestic cement industry organized by CBMI



公司组织工程数字化专题培训暨数字化专员岗位职责培训开班仪式
Opening ceremony of engineering digitalization training and digital specialist job responsibility training organized by CBMI



公司组织后疫情时代海外工程市场分析与研判
Analysis and judgment of overseas engineering market in the post-pandemic era organized by CBMI

加强业务建设 确保优质服务

Strengthen business construction and ensure high-quality service

运营管理

2021年，中材建设坚持以效率优先、效益优先为管理原则，不断提升管理、拓展深度，优化运营质效。组织新签订项目经济成本责任约谈会，强化成本管控意识，增强项目创新驱动，推进全面成本管理。突出改革赋能，推进考核激励机制。强化绩效考核后流程管理，建立绩效考核反馈机制。加大经济运行分析力度，反馈、共享经济运行数据，指导、监管公司日常运营管理。

Operation management

In 2021, CBMI adhered to the management principle of giving priority to efficiency and benefit, and continuously improved management, expanded depth and optimized operation quality and efficiency. CBMI organized meetings on economic cost responsibility of newly signed projects, strengthened awareness of cost control, enhanced project innovation drive, and promoted total cost management. In addition, CBMI highlighted reform empowerment, promoted the assessment and incentive mechanism, strengthened the process management after performance appraisal, and established the feedback mechanism of performance appraisal. CBMI intensified economic operation analysis, gave feedback on and shared economic operation data, and guided and supervised the daily operation and management of the Company.



公司组织召开尼日利亚BUA三条熟料水泥生产线经济成本责任约谈会
CBMI organized a meeting on economic cost responsibility of three production lines of clinker

法律法务

2021年，中材建设全力做好法律风险防控和合规管理工作。优化法治合规制度建设，完善治理体系。全面落实法务合规前置审核，切实防范公司风险；配备法务合规专门人员，加强法律合规风险应对。提高全员法治合规意识，营造法治合规文化。一年来，公司严格落实上级公司法治合规管理各项部署要求，紧紧围绕公司中心工作，结合公司实际情况开展工作，初步搭建法治合规管理体系，风险关口前移，为公司各项业务持续、有序、稳健发展提供了有力保障。

Legal matters

In 2021, CBMI did its best to prevent and control legal risks and manage compliance, optimized the construction of legal compliance system and improved the governance system. In addition, CBMI fully implemented the pre-audit of legal compliance and effectively prevented corporate risks; equipped legal compliance professionals to strengthen legal compliance risk response; improved the awareness of legal compliance of all employees and created legal compliance culture. Over the past year, the Company strictly implemented the deployment requirements for the legal compliance management issued by higher-level companies, closely focused on its central task, carried out work in combination with its actual situation, initially established a legal compliance management system, and strengthened the risk control, and provided a strong guarantee for the sustained, orderly and steady development of various businesses of the Company.

财务管理

2021年，中材建设持续深化全面预算全过程管理，完善预算执行监控及考核机制，加强关键指标管控，有效发挥预算引领和管控作用。全年实现营业收入39.14亿元，利润总额4.60亿元，净资产收益率16.69%，国有资产保值增值率112.58%。

完成公司财务人员岗位轮换工作，进一步增强了会计人员综合素质，强化了内控机制，防范舞弊现象的出现。加强银行授信管理工作，全年共获得各商业银行综合授信91.50亿元。狠抓“2422”压减工作，持续提升公司资产运营质量。

Financial management

In 2021, CBMI continued to deepen the whole process management of comprehensive budget, improved the monitoring and assessment mechanism of budget implementation, strengthened the control of key indicators, and effectively played the role of budget leading and control. The annual operating income was RMB 3.914 billion, the total profit was RMB 460 million, the return on net assets was 16.69%, and the hedging and proliferating ratio of state-owned assets was 112.58%.

CBMI completed the post rotation of the Company's financial personnel, further enhanced the comprehensive quality of accounting personnel, strengthened the internal control mechanism, and prevented the occurrence of fraud. CBMI strengthened the management of bank credit, and obtained a total of RMB 9.15 billion of comprehensive credit from commercial banks throughout the year. CBMI paid close attention to the “2422” reduction work and continuously improved the asset operation quality of the Company.



2021年度财务工作“云”会议
2021 Financial Work “Cloud” Conference

加强业务建设 确保优质服务

Strengthen business construction and ensure high-quality service

审计内控

2021年，中材建设科学评估内控风险并认真合理制定风险解决方案，建立健全重大风险实时监测和报告工作机制。进一步加强违规经营投资责任追究工作的体系建设，完善各职能部门管理制度的基本嵌入，做到责任追究主体延申至下属所有分子公司和项目经理部。

2021年，公司完成了两个境外EPC项目的全过程审计等数十项专项审计工作，并开展了年度内控风险评价，采购自查自纠等专项检查工作；组织下属两家单位建立了内部控制体系，实现了企业内控覆盖率达到100%的这一改革专项工作任务目标。

公司继续秉持增强审计监督合力的精神，着力强化审计问题跟踪整改工作，以风险为导向，立足于建立长效风险防控机制，保障公司经营管理持续有效健康发展。

Audit and internal control

In 2021, CBMI scientifically assessed internal control risks, carefully and reasonably formulated risk solutions, and established and improved a real-time monitoring and reporting mechanism for major risks. In addition, CBMI further strengthened the system construction of accountability for illegal business investment, improved the basic embedding of management systems of various functional departments, and ensured that the main body of accountability would be extended to all subordinate branches and subsidiaries and project management departments.

In 2021, the Company completed dozens of special audits such as the whole process audit of two overseas EPC projects, and carried out special inspections such as annual internal control risk assessment and procurement self-examination and self-correction; organized two subordinate units to establish an internal control system, and achieved the goal of the special reform that the internal control coverage rate of the Company reached 100%.

The Company continued to uphold the spirit of strengthening the joint efforts of audit supervision, focused on strengthening the tracking and rectification of audit problems, took risks as the guide, and established a long-term risk prevention and control mechanism to ensure the sustained, effective and healthy development of its operation and management.

质量管理

2021年开展了24个项目、265个采购合同的设备质量检查，出具检查报告737个，完成供应商考察38家。进一步加强了采购和质检的工作协同，合理、有效利用现有资源，从单一设备质量检验向采购、物流全链条质量控制的观念转变。

Quality management

In 2021, equipment quality inspection was carried out for 24 projects and 265 procurement contracts, 737 inspection reports were issued, and 38 suppliers were inspected. CBMI further strengthened the coordination of procurement and quality inspection, made rational and effective use of existing resources, and changed the concept from single equipment quality inspection to whole-chain quality control of procurement and logistics.

廉政建设

2021年，中材建设坚决贯彻中央关于党风廉政建设部署，认真落实全面从严治党要求，严格落实“两个责任”，强化监督执纪问责，持续保持反腐高压态势，营造风清气正的良好氛围。

不断夯实“两个责任”，严格履行“三转”要求，紧紧围绕政治监督、专项监督、日常监督，“三位一体”的监督体系，开展党风廉政建设和反腐败工作，组织召开党风廉政建设与反腐败工作会议和领导小组会议，对全年党风廉政建设重点工作进行研究部署。和有关人员签订《党风廉政建设责任书》《领导干部廉洁自律承诺书》等，进一步压实党风廉政建设责任。

紧盯春节、中秋等重要节点做好廉洁风险防控，不断加强作风建设。组织开展采购招标、资金支付等专项检查，坚决纠正经营管理活动中违反商业道德和市场规则及影响公平竞争的不正当交易行为。

Construction of incorruptible employment

In 2021, CBMI resolutely implemented the central government's plan for the construction of the Party conduct and building of a clean and honest government, conscientiously implemented the requirements of strictly administering the Party in an all-round way, strictly implemented the "two responsibilities", strengthened supervision and discipline accountability, continuously maintained the tough stance in anti-corruption, and created a good atmosphere with a clean and positive atmosphere.

CBMI constantly consolidated the "two responsibilities", strictly fulfilled the requirements of the "three changes", closely focused on the "trinity" supervision system of political supervision, special supervision and daily supervision, and carried out the building of a clean and honest government and anti-corruption work. CBMI organizes the work meeting and leading group meeting for Party honesty building and anti-corruption, studies and deploys the yearly important tasks of Party honesty building. The Company signs the Party Honesty Building Responsibility Letter and Honesty and Self-discipline Legal Commitment Letter for Leading Cadres, and further delegate Party honesty building responsibility.

CBMI did a good job in integrity and risk prevention and control on important nodes such as Spring Festival and Mid-Autumn Festival, and constantly strengthened work style construction. In addition, CBMI organized special inspections such as procurement bidding and fund payment, and resolutely corrected unfair transactions that violated business ethics and market rules and affected fair competition in business management activities.



党风廉政教育月活动宣贯会
Signing Party honesty building responsibility letter

加强业务建设 确保优质服务

Strengthen business construction and ensure high-quality service

企业文化建设

2021年，中材建设企业文化建设实现新进步，在提升软实力中“守正创新”。在尼日利亚广泛传播中国文化，举办开放日进工厂活动，促进中尼两国文化融合。重视群团工作，在营造和谐氛围中“汇聚合力”，一年来开展了“我为群众办实事”实践活动，“师带徒”活动，健身文体活动等。结合国内外疫情变化情况和员工遇到的各种困难，关心关爱境外员工和家属，建立联系帮扶机制，切实解决员工及家属实际困难。组织员工爱心捐款、开展精准扶贫工作。

Enterprise culture construction

In 2021, CBMI made new progress in the construction of corporate culture, and “upheld integrity and innovation” in enhancing its soft power. CBMI widely spread Chinese culture in Nigeria, held the activity of entering factories on open days, and promoted cultural integration between China and Nigeria. CBMI attached importance to group work to “gather together” in creating a harmonious atmosphere, and carried out practical activities titled with “I do practical things for the masses”, and fitness and cultural activities such as “Apprenticeship” in the past year. Combined with the changes of epidemic situation at home and abroad and various difficulties encountered by employees, CBMI cared for overseas employees and their families, established a contact and assistance mechanism, effectively solved the practical difficulties facing employees and their families, organized employees to donate with love and carried out targeted poverty alleviation.



参加建材集团“庆元旦、迎新春”趣味文体活动
Chinese New Year recreational and sports activities



建材集团2022年安全生产月
"Safety Production Month" activities of 2022

经营业绩攀新高 市场开拓创佳绩

Increasing business performance, good market development results

2021年，面对异常复杂严峻的疫情防控形势，全球经济低迷发展后劲不足，国际化经营风险加大，市场开拓交流受限等多重因素，中材建设坚定不移的稳中求进、稳中提质，将发展基础不断夯实、发展势能持续积聚、发展动力更加强劲，全力推进高质量发展，加快建设世界一流企业。

In 2021, facing the factors such as extremely complicated and severe situation of epidemic prevention and control, downturn and insufficient development potential in the global economy, increased risks in international operations, and limited market development and communication, CBMI unswervingly strived to seek improvement in stability and improve quality in stability, constantly consolidated its development foundation, continuously accumulated its development potential, strengthened its development momentum, made every effort to promote high-quality development and accelerated to build itself into a world-class enterprise.

做优水泥工程业务

2021年，中材建设利用“云签约”模式，成功新签华润水泥（贵港）有限公司骨料机制砂生产线项目、阿尔及利亚BC白水泥生产线项目、多米尼加DOMICEM熟料生产线项目、Holcim法国SPL粘土煅烧项目、Holcim喀麦隆Figuil1000tpd熟料线项目、尼日利亚Kogi熟料生产线+50MW电厂等13个项目，超额完成经营目标。同时，公司发挥自身在国际水泥工程市场上的优势，加强碳减排项目的跟踪力度，积极推动碳减排项目的拓展，为“双碳”目标实现赋能。

2021年，中材建设与Holcim集团就法国SPL粘土煅烧项目达成战略合作伙伴关系，并正式签约。该项目的签约与实施，拉开我公司“碳达峰”和“碳中和”工作的序幕，具有里程碑式的意义，更为实现集团节能减排、绿色发展的远景目标起到良好的助推作用。

Optimize cement engineering business

In 2021, CBMI successfully signed 13 new projects via “cloud contracting” mode, including Aggregate Machine-made Sand Production Line Project of China Resources Cement (Guigang) Co., Ltd., BC White Cement Production Line Project in Algeria, DOMICEM Clinker Production Line Project in Dominica, Holcim SPL Clay Calcination Project in France, Holcim Fiquil1000TPDClinker Production Line Project in Cameroon and Kogi Clinker Production Line + 50MW Power Plant Project in Nigeria, exceeding the business objectives. At the same time, CBMI gave full play to its advantages in the international cement engineering market, strengthened the tracking of carbon emission reduction projects, actively promoted the expansion of carbon emission reduction projects, and empowered the realization of the goal of “carbon peaking and carbon neutrality”.

In 2021, CBMI and Holcim Group established a strategic partnership on SPL Clay Calcination Project in France and formally signed a contract. The signing and implementation of this project kicked off the work of “carbon peaking” and “carbon neutralization” of CBMI, which was of milestone significance and played a good role in boosting the realization of the Group’s long-term goals of energy conservation, emission reduction and green development.

经营业绩攀新高 市场开拓创佳绩

Strengthen Market Development, Ensure Stable Operation



法国SPL粘土煅烧项目
SPL Clay Calcination Project in France

2021年，中材建设签约尼日利亚Kogi 6000tpd熟料线+50MW电厂项目的EPC合同，正式开启了和Mangal 集团的合作的新篇章，进一步扩大了公司在尼日利亚区域的“朋友圈”。也将进一步助力尼日利亚公司的属地化经营工作，为早日把尼日利亚公司打造成一个“亿元平台公司”创造有利条件并奠定坚实的基础。

In 2021, CBMI signed a contract on the EPC Project for Kogi 6000TPD Clinker Production Line + 50MW Power Plant in Nigeria, which officially opened a new chapter of cooperation with Mangal Group and further expanded the Company's "circle of friends" in Nigeria. It would also further help the Nigerian company to operate locally, and create favorable conditions and lay a solid foundation for the Nigerian company to become a "RMB 100 million platform company" at an early date.



尼日利亚KOGI 6000tpd熟料线+50MW电厂项目签约现场
Signing Site of Kogi 6000TPD Clinker Production Line + 50MW Power Plant Project in Nigeria

2021年，中材建设签约多米尼加DOMICEM 3500TPD熟料线二线扩建EPC项目，该项目是多米尼加近10年来的最大一笔投资，也是二十年后两家公司继一线之后的再次合作，充分体现了Colacem对于中材建设良好履约能力的高度认可，同时该项目的成功签约也为拉美属地化公司开展属地化经营工作夯实了坚实的基础。

In 2021, CBMI signed a contract on the EPC Project for Second-line Expansion of DOMICEM 3500TPD Clinker Production Line in Dominica. This project was the largest investment in Dominica in recent 10 years, and it was also the cooperation between the two companies after the first line 20 years later, which fully reflected Colacem's high recognition of CBMI's good performance ability. At the same time, the successful signing of this project also laid a solid foundation for Latin American localized companies to carry out localized operations.



多米尼加DOMICEM 3500TPD熟料线二线扩建EPC项目签约现场
Signing Site of EPC Project for Second-line Expansion of DOMICEM 3500TPD Clinker Production Line in Dominica

做大多元化工程业务

2021年，中材建设在强化传统水泥EPC工程竞争优势的同时，依托品牌优势、属地化布局，充分发挥公司的硬核价值，不断挖潜在多元工程领域的业务潜能，在继电力、能源、化工、冶炼板块之后，又在大型综合工业园建设工程、选矿工程、危险废弃物处置工程、可替代燃料和原料等多个重要工业领域取得了战略性突破，打造工业工程领域的多元竞争力体系。公司根据属地资源禀赋、行业动向、市场格局，因地制宜探索“有限多元工程”可持续发展道路，不断深化与多家世界500强企业全球化业务合作关系，进行资源配置，达到优势互补，实现共同发展。

丰益国际南非食用油工厂、海尔俄罗斯工业园项目在2021年均实现了合同拓展；属地化的多元工程点面开花；HOLCIM法国SPL粘土煅烧项目的签约，吹响了公司向碳中和进军的号角；俄罗斯海尔工业园海关仓库项目顺利通过最终验收，并喜获运营许可证书。

Expand diversified engineering business

In 2021, while strengthening the competitive advantage of traditional cement EPC project, CBMI relied on its brand advantages and localized layout, gave full play to its hard core value, and constantly tapped the business potential in the field of diversified engineering. The Company made strategic breakthroughs in many important industrial fields such as large-scale comprehensive industrial park construction projects, mineral processing projects, hazardous waste disposal projects, alternative fuels and raw materials, and built a diversified competitiveness system in the field of industrial engineering. According to the local resource endowment, industry trend and market structure, the Company explored the sustainable development path of "limited multi-project" according to local conditions, continuously deepened the global business partnership with many Fortune 500 enterprises, and allocated resources to achieve complementary advantages and common development.

The Company achieved contract expansion for Wilmar International South Africa Edible Oil Factory and Haier Russian Industrial Park projects in 2021, and developed localized multi-projects. The signing of HOLCIM SPL Clay Calcination Project in France sounded the clarion call for the Company to realize carbon neutrality. The Customs Warehouse Project of Haier Russian Industrial Park successfully passed the final acceptance and won the operation license.

经营业绩攀新高 市场开拓创佳绩

Strengthen Market Development, Ensure Stable Operation



俄罗斯海尔工业园海关仓库项目
Customs Warehouse Project of Haier Russian Industrial Park



丰益国际南非食用油工厂项目
Wilmar International Edible Oil Factory Project in South Africa

做强产业投资业务

2021年，中材建设积极推进轻量化建材投资和集团国际化协同投资产业项目，加快屋面系统产业投资发展，构建彩石瓦屋面系统非洲市场领先地位，加大模块化产品投入，构建核心竞争优势，打造行业拳头产品，成为集团“三化”转型“主力军”、国际化“先锋官”、世界一流“排头兵”。

2021年，中材建设尼日利亚拉各斯金属彩石瓦项目投产运营，尼日利亚年产600万平方米屋面系统产业扩建项目、经营研发中心置业项目进行中；肯尼亚年产200万平方米金属彩石瓦项目的立项，标志着屋面系统走出尼日利亚，迈出全非洲布局第一步。

Strengthen industry investment business

In 2021, CBMI actively promoted lightweight building materials investment and international collaborative investment industrial projects of the Group, accelerated the investment and development of roofing system industry, built a leading position in the African market of colored stone tile roofing system, and increased investment in modular products. Through building core competitive advantages and producing industry knock-out products, CBMI strived to become the “main force”, international “pioneer” and world-class “vanguard” of the Group’s “three transformations”.

In 2021, CBMI put the Lagos Metal Colored Stone Tile Project in Nigeria into operation, and was implementing the roofing system industry expansion project with an annual output of 6 million square meters in Nigeria and R&D center estate project, and established the metal colored stone tile project with an annual output of 2 million square meters in Kenya, marking that the roofing system went out of Nigeria and took the first step for the layout across Africa.



肯尼亚年产200万平方米金属彩石瓦项目
Metal Colored Stone Tile Project with an Annual Output of 2 Million Square Meters in Kenya

经营业绩攀新高 市场开拓创佳绩

Strengthen Market Development,Ensure Stable Operation

2021年中材建设传统业务签约项目

Signed contracts on traditional business in 2021

2021年, 中材建设传统业务签订合同的项目15个。

In 2021, CBMI signed contracts for 15 traditional business projects.

序 号 No.	项 目 名 称 Project name	合 同 模 式 Model of contract	签 约 时 间 Time of signing
1	华润水泥（贵港）有限公司骨料机制砂生产线项目 Aggregate Machine-made Sand Production Line Project of China Resources Cement (Guigang) Co., Ltd.	EPC	2021. 4
2	阿尔及利亚BC3000TPD灰水泥生产线改造2000TPD白水泥生产线项目 Project for Transformation of BC3000TPD Ash Cement Production Line into 2000TPD White Cement Production Linein Algeria	EP	2021. 3
3	拉豪菲律宾La Union热风管道项目 HOLCIM La Union Hot Air Duct Project in Philippines	EPC	2021. 4
4	LH伊拉克网架供货项目 LH Rack Supply Project in Iraq	EP	2021. 6
5	尼日利亚EDO项目运营维护合同增补 Supplement to Operation and Maintenance Contract on EDO Project in Nigeria	EPC	2021. 6
6	江西万年青水泥磨及包装系统机电设备安装项目 Jiangxi Wannianqing Cement Mill and Packaging System Electromechanical Equipment Installation Project	C	2021. 7
7	拉豪摩洛哥石油焦堆棚扩建项目 HOLCIM Expansion Project of Petroleum Coke Stack Shed in Morocco	EPC	2021. 8
8	多米尼加DOMICEM 熟料生产线项目 DOMICEM Clinker Production Line Project in Dominica	EPC	2021. 8
9	拉豪法国SPL粘土煅烧项目 HOLCIMSPL Clay Calcination Project in France	EPC	2021. 8
10	Holcim 喀麦隆Figuil1000tpd熟料线项目 Holcim Figuil 1000TPD Clinker Production Line Project in Cameroon	EPC	2021. 10
11	尼日利亚Kogi熟料生产线+50MW电厂 （EP） Kogi Clinker Production Line + 50MW Power Plant in Nigeria (EP)	EPC	2021. 10
12	尼日利亚SOKOTO三线6000t/d熟料水泥生产线项目补充 Supplement to SOKOTO Third-line 6000T/D Clinker Cement Production Line Project in Nigeria	C	2021. 10
13	尼日利亚Kogi熟料生产线+50MW电厂 （C） Kogi Clinker Production Line + 50MW Power Plant in Nigeria (C)	EPC	2021. 11
14	马里Souakri V70模块化粉磨站项目 Souakri V70 Modular Grinding Station Project in Mali	EPC	2021. 11
15	尼日尔Souakri V50模块化粉磨站项目 Souakri V50 Modular Grinding Station Project in Niger	EPC	2021. 11

2021年中材建设多元业务签约项目

Signed Contracts on Diversified Business in 2021

2021年，中材建设多元业务全年签约14个合同。

In 2021, CBMI signed 14 contracts for diverse business projects.

序 号 No.	项 目 名 称 Project name	合 同 模 式 Model of contract	签 约 时 间 Time of signing
1	海尔俄罗斯成品海关仓库钢结构斜撑及污水处理附加工程 Additional Project of Steel Structure Brace and Sewage Treatment in Haier Russian Finished Goods Customs Warehouse	C	2021. 2
2	丰益国际南非食用油工厂项目钢结构标段总承包合同 EPC Contract on Steel Structure Bid Section of Wilmar International Edible Oil Factory Project in South Africa	PC	2021. 4
3	MDN宪兵高等学院阶梯会堂项目 MDN Gendarmerie College Ladder Hall Project	C	2021. 4
4	俄罗斯海尔工业园电视机厂项目 TV Factory Project of Haier Russian Industrial Park	C	2021. 4
5	阿尔及利亚CEVITAL油脂制取项目准备车间B上部结构 土建工程标段 Civil Engineering Bid Section of Superstructure B in Preparation Workshop of CEVITAL Grease Preparation Project in Algeria	C	2021. 4
6	尼日利亚KANO州内燃机电站项目 Internal Combustion Engine Power Station Project in KANO State, Nigeria	C	2021. 5
7	尼日利亚CALABAR州内燃机电站项目 Internal Combustion Engine Power Station Project in CALABAR State, Nigeria	C	2021. 5
8	海尔俄罗斯成品海关仓库供电系统附加工程 Additional Project of Power Supply System for Haier Russian Finished Products Customs Warehouse	C	2021. 6
9	南非太阳城铂金矿选矿施工项目合同增补 Supplement to Contract on Beneficiation Construction Project of Sun City Platinum Mine in South Africa	C	2021. 6
10	法国图卢兹项目轮胎喂料系统供货安装 Supply and Installation of Tire Feeding System in Toulouse Project, France	PC	2021. 6
11	法国HOLCIM SPL 粘土煅烧项目 HOLCIM SPL Clay Calcination Project in France	EPC	2021. 8
12	东帝汶道路基材供货项目 Road Base Material Supply Project in East Timor	C	2021. 9
13	LPO集团石膏厂石膏粉仓基础施工项目 Foundation Construction Project of Gypsum Powder Silo in Gypsum Plant of LPO Group	C	2021. 10
14	南非丰益国际食用油工厂项目土建合同补偿 Compensation for Civil Engineering Contract of Wilmar International Edible Oil Factory Project in South Africa	C	2021. 10

坚持创新驱动 改革赋能发展

Insist on innovation-driven reform and empower development

2021年，中材建设以市场和客户需求为导向，贯彻“创新、协调、绿色、开放、共享”新发展理念，加大科技创新、突破关键核心“卡脖子”技术，以科技创新助力公司向“数字化、智能化、绿色化、高端化”转型。加大核心技术研究力度，在适应项目改造市场加大技术研发和应用。在施工技术方面设立技术专项研究，以数字化技术融合项目实施，降低海外项目实施风险。加大培养和引进高端技术人才力度，激发技术人才队伍活力。加大科技创新成果转化，进一步挖掘高质量自有专利技术。注重开展科技创新工作，围绕主业、节能环保、新工艺、新技术、新产品的技术创新，激活企业内部科技创新动力，加大外部“产学研用”资源协作。

In 2021, CBMI adhered to the market and customer oriented principle and implemented new development ideas of "innovation, coordination, green, open and share". The Company sped up technology innovation, and broke through critical and core "bottleneck" technology to drive the Company's transformation towards "Digitization, intelligence, greening and high end" through technology innovation. The Company increased efforts on core technology research, and enhanced technical research, development and application in the applicable project modification field. The Company conducted research into special construction technology and introduced the digital technology to mitigate the risk of its overseas project implementation. The Company intensified cultivation and introduction of high end technical talents and gave rise to the vitality of technical talents. The Company increased technical innovation results transformation and further excavated high quality proprietary technology; attached importance to technological innovation, stimulated inter-

强化技术创新

Strengthen the technical innovation

技术研发与创新

2021 年，中材建设拥有有效企业标准 17 项、有效专利及软著 72 项，其中发明专利 8 项、有效执行科研项目 22 项。新申请专利及软著 26 项，19 项成果获得河北省科学技术厅科技成果奖，3 个项目获得中国建材工程建设协会优秀工程设计奖，5 项成果获得中国建材集团技术革新奖，1 项成果获得中材国际工程股份有限公司技术革新奖，1 项成果获得中国建材机械工业协会技术革新奖，1 个项目获得中国施工企业管理协会工程建设项目设计奖，1 项成果获得河北省高新技术企业协会科学技术奖，获得中国建材机械工业协会“十三五”建材机械行业科技创新标兵企业。

深入贯彻国家、集团“双碳”发展战略，公司设立了替代燃料、黏土煅烧、富氧燃烧三个节能降碳技术攻关组，小组成员主力军主要由工艺设备设计者组成，将致力于加快推进公司在水泥行业节能降碳技术研发及应用。

Technology R&D and Innovation

In 2021, CBMI had 17 effective enterprise standards, 72 effective patents and software copyrights, including 8 patents for invention and 22 effectively implemented scientific research projects. CBMI had 26 new patents and software copyrights, 19 achievements winning the Science and Technology Achievement Award of Hebei Provincial Department of Science and Technology, 3 projects winning the Excellent Engineering Design Award of China National Building Materials Construction Association, 5 achievements winning the Technological Innovation Award of CNBM Group, 1 achievement winning the Technological Innovation Award of Sinoma International Engineering Co., Ltd., 1 achievement winning the Technological Innovation Award of China Building Material Machinery Association, 1 project winning the Engineering Construction Project Design Award of China Association of Construction Enterprise Management, and 1 achievement winning the Science and Technology Award of Hebei High-Tech Enterprises Association. CBMI won the title of Model Enterprise of Science and Technology Innovation in Building Material Machinery Industry of China Building Material Machinery Association during the “13th Five-Year Plan”.

In order to realize the in-depth implementation of the “carbon peaking and carbon neutrality” development strategy of the state and the Group, the Company set up three groups engaged in research on energy-saving and carbon-reducing technologies, namely, alternative fuels, clay calcination and oxygen-enriched combustion. The main force of the group members was mainly composed of process equipment designers, and would be committed to accelerating the R&D and application of energy-saving and carbon-reducing technologies of the Company in the cement industry.

2021年，1个项目获得中国施工企业管理协会奖项：

In 2021, 1 project won the award of China Association of Construction Enterprise Management

序 号 No.	项目 名称 Project name	奖励 名称 Name of award	获奖 等级 Grade of award	评 奖 部 门 Winner department
1	南非PPC SLURRY SK9项目 South Africa PPC SLURRY SK9 Project	工程设计 Engineering	三等奖 3rd prize	中国施工企业管理协会 China Association of Construction Enterprise Management

2021年，3个项目获得中国建材工程建设协会优秀工程设计奖：

In 2021, 3 projects won the Excellent Engineering Design Award of China National Building Materials Construction Association:

序 号 No.	项目 名称 Project name	奖励 名称 Name of award	获奖 等级 Grade of award	评 奖 部 门 Winner department
1	阿尔及利亚BECHAR水泥线项目 Algeria BECHAR Cement Line Project	工程设计 Engineering	一等奖 1st prize	中国建材工程建设协会 CNBMCA
2	阿尔及利亚ZAHANA水泥线项目 Algeria ZAHANA Cement Line Project	工程设计 Engineering	二等奖 2nd prize	中国建材工程建设协会 CNBMCA
3	拉豪尼日利亚EWE项目 HOLCIM EWE Project	工程设计 Engineering	二等奖 2nd prize	中国建材工程建设协会 CNBMCA

2021年，1个项目获得河北省高新技术企业协会科学技术奖：

In 2021, 1 project won the Science and Technology Award of Hebei High-Tech Enterprises Association:

序 号 No.	项目 名称 Project name	奖励 名称 Name of award	获奖 等级 Grade of award	评 奖 部 门 Winner department
1	模块化粉磨站 Modular grinding station	技术进步 Technology advancement	三等奖 3rd prize	河北省高新技术企业协会 Hebei High-Tech Enterprises Association

2021年，5个项目获得中国建材集团技术革新奖：

In 2021, 5 projects won the Technical Innovation Award of China National Building Material Group.

序 号 No.	项目 名称 Project name	奖励 名称 Name of award	获奖 等级 Grade of award	评 奖 部 门 Winner department
1	无板喂机煤破碎系统设计 Design of coal crushing system without plate feeder	技术改造 Technical transformation	二等奖 2nd prize	中国建材集团 CNBMG
2	多点卸料盘云机 Multi-point discharging tray machine	技术改造 Technical transformation	二等奖 2nd prize	中国建材集团 CNBMG
3	激光扫描技术应用于水泥工厂改造 Application of Laser Scanning Technology in Reconstruction of Cement Plant	技术开发 Technology development	二等奖 2nd prize	中国建材集团 CNBMG
4	智慧建造管理平台 Smart construction management platform	技术开发 Technology development	二等奖 2nd prize	中国建材集团 CNBMG
5	工程资料提资平台 Engineering data provision platform	技术开发 Technology development	三等奖 3rd prize	中国建材集团 CNBMG

2021年，1个项目获得中国建材机械工业协会技术革新奖：

In 2021, 1 project won the Technological Innovation Award of China Building Material Machinery Association:

序 号 No.	项目 名称 Project name	奖励 名称 Name of award	获奖 等级 Grade of award	评 奖 部 门 Winner department
1	无板喂机煤破碎系统设计 Design of coal crushing system without plate feeder	技艺工法 Technique	二等奖 2nd prize	中国建材机械工业协会 CBMMA

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2021年，1个项目获得中材国际工程股份有限公司技术革新奖：

In 2021, 1 project won the Technological Innovation Award of Sinoma International Engineering Co., Ltd.:

序 号 No.	项 目 名 称 Project name	奖 励 名 称 Name of award	获 奖 等 级 Grade of award	评 奖 部 门 Winner department
1	活体回转窑焊接平台 Active rotary kiln welding platform	技艺工法 Technique	二等奖 2nd prize	中材国际 Sinoma International

2021年，19个项目获得河北省科学技术厅科技成果奖：

In 2021, 19 projects won the Science and Technology Achievement Award of Hebei Provincial Department of Science and Technology:

序 号 No.	项 目 名 称 Project name	奖 励 名 称 Name of award	获 奖 等 级 Grade of award	评 奖 部 门 Winner department
1	电能自维持干法水泥烧成工艺及其供电系统 Electric energy sustained dry cement burning process and its power supply and distribution system	科技成果 Scientific and technological achievement	国内领先 Leading in China	河北省科学技术厅 Hebei Provincial Department of Science and Technology
2	自带收尘的敞口式料斗技术的研发和应用 R&D and application of dust-catching open funnel technology	科技成果 Scientific and technological achievement	国内领先 Leading in China	河北省科学技术厅 Hebei Provincial Department of Science and Technology
3	适用于多燃料组分的全自动多炉膛热风炉系统开发与应用 Development and application of automatic multi-furnace hot blast furnace system suitable for multiple fuels	科技成果 Scientific and technological achievement	国内领先 Leading in China	河北省科学技术厅 Hebei Provincial Department of Science and Technology
4	自动调节型移动喂料阀研发与应用 Development and application of automatic adjustable mobile feed valve	科技成果 Scientific and technological achievement	国内领先 Leading in China	河北省科学技术厅 Hebei Provincial Department of Science and Technology
5	基于高性能计算控制系统在危险废弃物处置中的研发与应用 Development and application of high performance computing control system in hazardous waste disposal	科技成果 Scientific and technological achievement	国内领先 Leading in China	河北省科学技术厅 Hebei Provincial Department of Science and Technology
6	全替代燃料的预热器系统技术研究与应用 Research and application of full alternative fuel preheater system technology	科技成果 Scientific and technological achievement	国内领先 Leading in China	河北省科学技术厅 Hebei Provincial Department of Science and Technology
7	工程项目中复杂地形排水沟优化设计和应用 Optimal Design and Application of Drainage Ditch with Complex Terrain in Engineering Project	科技成果 Scientific and technological achievement	国内先进 Advanced in China	河北省科学技术厅 Hebei Provincial Department of Science and Technology
8	MBR工艺在水泥厂小型生活污水处理中的研究和应用 Research and application of MBR process in small-scale domestic sewage treatment in cement plant	科技成果 Scientific and technological achievement	国内先进 Advanced in China	河北省科学技术厅 Hebei Provincial Department of Science and Technology
9	立式烘干系统在替代燃料Fluff中的研究和应用 Research and Application of Vertical Drying System in Alternative Fuel Fluff	科技成果 Scientific and technological achievement	国内领先 Leading in China	河北省科学技术厅 Hebei Provincial Department of Science and Technology
10	低能耗旋风筒技术研发和应用 R&D and Application of Low Energy Cyclone Technology	科技成果 Scientific and technological achievement	国内领先 Leading in China	河北省科学技术厅 Hebei Provincial Department of Science and Technology
11	移动粉磨站无人值守技术研究和应用 Research and Application of Unattended Technology of Mobile Grinding Station	科技成果 Scientific and technological achievement	国内领先 Leading in China	河北省科学技术厅 Hebei Provincial Department of Science and Technology
12	大处理风量的旋风收尘器研发与应用 Development and application of cyclone dust collector with big processing air volume	科技成果 Scientific and technological achievement	国内领先 Leading in China	河北省科学技术厅 Hebei Provincial Department of Science and Technology
13	适用于高温气体环境的陶瓷闸板阀研发与应用 R&D and application of ceramic gate valve suitable for high temperature gas environment	科技成果 Scientific and technological achievement	国内领先 Leading in China	河北省科学技术厅 Hebei Provincial Department of Science and Technology
14	工业用箱式空压机站研究和应用 Research and application of industrial box-type air compressor station	科技成果 Scientific and technological achievement	国内领先 Leading in China	河北省科学技术厅 Hebei Provincial Department of Science and Technology
15	工业循环水箱式集成产品研究与应用 Research and application of box-type integrated product for industrial circulation	科技成果 Scientific and technological achievement	国内领先 Leading in China	河北省科学技术厅 Hebei Provincial Department of Science and Technology
16	水泥立磨液压系统自动控制技术研究与应用 Research and application of automatic control technology of hydraulic system of cement vertical mill	科技成果 Scientific and technological achievement	国内领先 Leading in China	河北省科学技术厅 Hebei Provincial Department of Science and Technology
17	工程资料互通管理平台开发 Development of Engineering Data Intercommunication Management Platform	科技成果 Scientific and technological achievement	国内领先 Leading in China	河北省科学技术厅 Hebei Provincial Department of Science and Technology
18	工程材料管控平台开发 18 Engineering data management control platform development	科技成果 Scientific and technological achievement	国内先进 Advanced in China	河北省科学技术厅 Hebei Provincial Department of Science and Technology
19	模块化粉磨站 Modular grinding station	科技成果 Scientific and technological achievement	国内领先 Leading in China	河北省科学技术厅 Hebei Provincial Department of Science and Technology

加大技术研发

Increase technology research and development

2021年，中材建设加大高新科研项目研发和关键核心技术的攻关支持力度，在上一年度7个项目持续开展的同时，新增15个研发项目，不断提升企业自主研发能力。

并在2021年获得21项实用新型专利、2项发明专利、4项软件著作权，形成完善的技术成果产业化运行体系。

In 2021, CBMI intensified research and development in new high tech projects and support for key and core technology break-through. Parallel with 7 ongoing projects of the previous year, the Company newly added 15 research and development projects and kept increasing the proprietary R&D capacity.

In 2021, CBMI won 21 utility model patents, 2 patents for invention and 4 software copyrights, forming a perfect industrialized operation system of technological achievements.

2021年高新科研延续项目共计7项

In 2021, there were 7 new high tech continuation projects.

序 号 No.	项 目 名 称 Project name	项 目 编 号 Project No	备 注 Remarks
1	低能耗低排放预热器研发与应用 Development and application of low energy consumption low emission preheater	2020RD02	高新科研延续项目 New high tech continuation project
2	新型回转窑技术研究与应用 Research and development of new rotary kiln technology	2020RD04	高新科研延续项目 New high tech continuation project
3	水泥窑协同处置环境下耐火材料适应性研究 Refractory material suitability research under the cement kiln cooperative disposal environment	2020RD05	高新科研延续项目 New high tech continuation project
4	箱式回转包装机研发与应用 Development and application of box-type rotary packing machine	2020RD06	高新科研延续项目 New high tech continuation project
5	箱式固定点装车机研发与应用 Development and application of box-type fixed point loader	2020RD07	高新科研延续项目 New high tech continuation project
6	组合式塔架设计与施工技术研究与应 Research and application of combined tower design and construction technology	2020RD10	高新科研延续项目 New high tech continuation project
7	箱式组合电力室研发与应用 Development and application of box-type combination power room	2020RD12	高新科研延续项目 New high tech continuation project

2021年高新科研项目共计15项

In 2021, there were 15 new high tech projects.

序 号 No.	项 目 名 称 Project name	项 目 编 号 Project No	备 注 Remarks
1	模块化智能上料系统研究与应用 Research and Application of Modular Intelligent Feeding System	2021RD01	高新科研项目 New high tech projects
2	生料库高效均化控制技术研究与应 Research and Application of Efficient Homogenization Control Technology in Raw Material Silo	2021RD02	高新科研项目 New high tech projects
3	水泥厂断电自动应急保护系统研究与应用 Research and Application of Automatic Emergency Protection System for Power Failure in Cement Plant	2021RD03	高新科研项目 New high tech projects
4	原料立磨自动控制技术研究与应用 Research and Application of Automatic Control Technology for Vertical Raw Material Mill	2021RD04	高新科研项目 New high tech projects

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改革赋能发展

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序 号 No.	项目名称 Project name	项目编号 Project No	备注 Remarks
5	智慧物流管理平台技术开发与应用 Development and Application of Intelligent Logistics Management Platform Technology	2021RD05	高新科研项目 New high tech projects
6	智能仓储管理平台技术开发与应用 Development and Application of Intelligent Warehouse Management Platform Technology	2021RD06	高新科研项目 New high tech projects
7	新式绿色环保型预热器的研发与应用 Development and Application of New Green and Environment-friendly Preheater	2021RD07	高新科研项目 New high tech projects
8	边缘双传动大直径管磨机研发与应用 Development and Application of Large Diameter Tube Mill with Edge Double Transmission	2021RD08	高新科研项目 New high tech projects
9	旋转式多点下料装备研发与应用 Development and Application of Rotary Multi-point Blanking Equipment	2021RD09	高新科研项目 New high tech projects
10	废旧轮胎处理系统研究与应用 Research and Application of Waste Tire Treatment System	2021RD10	高新科研项目 New high tech projects
11	V70型模块化粉磨站研发与应用 Development and Application of V70 Modular Grinding Station	2021RD11	高新科研项目 New high tech projects
12	彩石金属瓦智能生产线研发 Research and Development of Intelligent Production Line of Colored Stone Metal Tile	2021RD12	高新科研项目 New high tech projects
13	新型高性能撬装消防供水技术装置的研究与应用 Research and Application of A New High-performance Skid-Mounted Fire Water Supply Device	2021RD13	高新科研项目 New high tech projects
14	混凝土塔架爬升施工装备研发与应用 Development and Application of Climbing Construction Equipment for Concrete Tower	2021RD14	高新科研项目 New high tech projects
15	水泥项目减压锥模板自安拆装备研发与应用 Development and Application of Self-mounting and Dismantling Equipment for Pressure Reduction Cone Formwork in Cement Project	2021RD15	高新科研项目 New high tech projects

2021年，获得21项实用新型专利
In 2021, CBMI obtained 21 utility model patents.

序 号 No.	专利名称 Name of patent	专利类型 Type of patent
1	回转设备进料端的密封装置 Sealing Device at Feed End of Rotary Equipment	实用新型 Utility model
2	回转窑出料护板安装结构 Installation Structure of Discharge Guard Plate of Rotary Kiln	实用新型 Utility model
3	小型生活污水处理系统 Small Domestic Sewage Treatment System	实用新型 Utility model
4	工业用循环冷却水集成装置 Industrial Circulating Cooling Water Integrated Device	实用新型 Utility model
5	一种替代燃料的处理系统 Alternative Fuel Processing System	实用新型 Utility model
6	一种基于导流装置的旋风筒内筒及旋风收尘器 Cyclone Inner Cylinder and Cyclone Dust Collector based on Flow Guide Device	实用新型 Utility model
7	一种隔绝烟气渗透的耐火衬里 Refractory Lining for Isolating Smoke Penetration	实用新型 Utility model
8	一种采用替代燃料的分解炉 Calciner Using Alternative Fuel	实用新型 Utility model
9	一种旋风收尘器 Cyclone Dust Collector	实用新型 Utility model
10	一种撬装消防供水一体化装置 Skid-mounted Fire-fighting Water Supply Integrated Device	实用新型 Utility model
11	工业箱式空压机站 Industrial Box Air Compressor Station	实用新型 Utility model
12	一种适合复杂地形的复合排水沟 Compound Drainage Ditch Suitable for Complex Terrain	实用新型 Utility model
13	箱式固定点装车机装置 Box-type Fixed-point Loader Device	实用新型 Utility model
14	活动式回转窑焊接平台 Welding Platform of Movable Rotary Kiln	实用新型 Utility model
15	回转式水泥包装机 Rotary Cement Packing Machine	实用新型 Utility model
16	模块化的粉料包装系统 Modular Powder Packaging System	实用新型 Utility model
17	水泥超细粉磨系统 Ultrafine Cement Grinding System	实用新型 Utility model
18	一种可拆卸式支撑装置 Dismountable Supporting Device	实用新型 Utility model
19	自挂式弧度可调模板装置 Self-hanging Template Device with Adjustable Radian	实用新型 Utility model
20	高浓度旋风收尘器 High-concentration Cyclone Dust Collector	实用新型 Utility model
21	一种处理篦冷机废气的双出口空空热交换器 Double-outlet Air-Air Heat Exchanger for Treating Waste Gas of Grate Cooler	实用新型 Utility model

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2021年，获得2项发明专利
In 2021, CBMI won 2 patents for invention.

序 号 No.	专利名称 Name of patent	专利类型 Type of patent
1	可移动的模块化水泥生产线 Movable Modular Cement Production Line	发明专利 Invention Patents
2	一种可根据物料重量自动调节皮带张紧的输送装置 Conveying Device Capable of Automatically Adjusting Belt Tension according to Material Weight	发明专利 Invention Patents

2021年，获得4项软件著作权
In 2021, CBMI won 4 software copyrights.

序 号 No.	专利名称 Name of patent	专利类型 Type of patent
1	中材建设提资平台V1.0 CBMI Construction Capital Data Provision Platform V1.0	软件著作权 Software Copyright
2	中材建设PID数据接口软件V1.0 CBMI Construction PID Data Interface Software V1.0	软件著作权 Software Copyright
3	中材建设智能仓储管理系统v1.0 CBMI Construction Intelligent Warehouse Management System v1.0	软件著作权 Software Copyright
4	智慧物流管理平台 Smart logistics management platform	软件著作权 Software Copyright

创新项目管理

Make innovations in project management

项目管理亮点
法国MK3项目是中材建设时隔多年后重返欧洲的第一个水泥项目，同时也是践行国家“一带一路”战略的首个实现了从伊始EP合同到完整EPC合同+调试运营合同的完美跨越，体现了业主对公司在欧盟严苛施工环境下项目执行和履约能力的充分肯定。项目的建设得益于“数字化+智能设备+远程协同”的智慧建造方式，原本的水泥厂“华丽变身”，成为在欧洲水泥行业处于技术前沿的数字化智能工厂。项目智慧建造的事迹还被人民日报、央视等官方媒体报道。

Highlights of project management
France MK3 Project is the first cement project of CBMI to return to Europe after many years, and it is also the first to implement the national “The Belt and Road” strategy by achieving a perfect leap from the initial EP contract to the complete EPC contract + commissioning operation contract, reflecting the owner’s full affirmation of the Company’s project execution and performance ability under the harsh construction environment of the European Union. Thanks to the intelligent construction mode of “digitalization + intelligent equipment + remote collaboration”, the original cement plant has been “upgraded” and transformed into a digital intelligent factory at the forefront of technology in the European cement industry. The story of intelligent construction of the project has also been reported by official media such as People’s Daily and CCTV.



法国 MK3 项目全景
Panorama of France MK3 Project

确保服务质量

Ensure the service quality

项目履约增强
中材建设历经二十年海外耕耘，充分发挥国际化先行优势，形成了一套以KPI指标和毛利率管理为主线，以项目为中心，以客户为导向，具有特色的EPC项目管理体系。

2021年，中材建设全力保障36个在执行项目稳步履约，其中国外33个，国内3个，取得PAC证书2个、FAC证书2个，南非PPC项目荣获国家优质工程奖，阿尔及利亚ZAHANA、BECHAR 项目荣获优秀工程总承包一等奖。良好的项目履约为公司深耕属地市场，不断提升企业品牌影响力，践行“品质经营”奠定了坚实的基础。

Enhanced project performance
With over 20 years of overseas operation, CBMI gives full play to international advantage, and forms a set of project-centric and customer-oriented characteristics EPC project management system focusing on KPI indicators and gross profit management.
In 2021, CBMI made every effort to ensure the steady performance of 36 projects under implementation, including 33 foreign projects and 3 domestic projects, and obtained 2 PAC certificates and 2 FAC certificates. The PPC project in South Africa won the National Quality Engineering Award, and the ZAHANA and BECHAR projects in Algeria won the first prize of Excellent EPC Project. Good project performance of CBMI has laid a solid foundation for the Company to deepen the local market, continuously enhance its brand influence and practice “quality management”.

夯实管理基础 筑牢安全防线

Consolidating the management foundation and building a safe defense line

中材建设深入践行“以人为本、坚守红线、追求零伤害”的企业安全观，持续完善安全生产管理体系，严格落实安全生产主体责任，着力控风险、治隐患、建体系、强队伍、保稳定，筑牢安全生产防线。2021年，公司累计安全投入1602万元，完成安全工时1487万。

CBMI has deeply practiced the enterprise safety concept of “people-oriented, sticking to the red line and pursuing zero harm”, continuously improved the safety production management system, strictly implemented the main responsibility of safety production, and focused on controlling risks, addressing hidden dangers, building systems, strengthening teams, ensuring stability and building a defense line for safe production. In 2021, the Company invested a total of RMB 16.02 million in safety and completed 14.87 million hours of safe production.

安全管理制度建设

Construction of safety management system

2021年，中材建设新编、修订了《安全工作分析、许可证和技术交底制度》、《职业病危害防治责任制度》、《生态环境保护节能减排管理办法》、《突发环境事件处理管理规定》、《环境保护责任制》等5项安全环保制度。进一步完善了公司安全环保管理制度体系、运行机制，优化管理流程，确保安全环保工作平稳可控。

In 2021, CBMI newly prepared and revised 5 safety and environmental protection systems, including Safety Work Analysis, License and Technical Disclosure System, Occupational Hazard Prevention Responsibility System, Management Measures for Ecological Environmental Protection, Energy Conservation and Emission Reduction, Management Regulations on Handling of Environmental Emergencies and Environmental Protection Responsibility System, further improved its safety and environmental protection management system and operation mechanism, and optimized the management process so as to ensure stable and controllable safety and environmental protection work.

推进安全标准化建设

Promote the safety standardization construction

2021年，中材建设以提升项目安全管理水平为核心，把安全标准化建设作为安全管理精细化的重要组成部分，持续推动标准化建设向全部作业过程延伸。2021年，作业人员防护用品标准化、安全设施标准化等五个标准化，已在中材建设所属项目现场全面落地。

In 2021, CBMI focused on improving the level of project safety management, took safety standardization construction as an important part of safety management refinement, and continuously promoted standardization construction to extend to the whole operation process. In 2021, five standardizations, such as standardization of protective equipment for operators and standardization of safety facilities, had been fully implemented at the project site of CBMI.



安全标志标识标准-平安幸福指示牌
Standard for Safety Signs - Safety and Happiness Signs



高空作业安全绳拉设规范
Specification for Safety Rope Drawing for Aerial Work

落实安全主体责任

Implement safety main body responsibility

2021年，中材建设安全环保责任制建设持续推进，按照“横向到边、纵向到底”的原则，逐级签署安全环保责任书。将责任落实到部门和个人。公司与各部门、分(子)公司、项目经理部签订2761份安全环保责任书，100%覆盖责任网络。

In 2021, the construction of CBMI's safety and environmental protection responsibility system continued to advance, the Company fully implements the main responsibility, follows the "thorough and comprehensive" principle, signs level by level safety and environmental protection responsibility letter and delegate responsibilities to the department and individual. CBMI and departments, branches (subsidiaries), and the department of project manager signed 2761 safety and environmental protection responsibility letters, achieving 100% responsibility grid coverage.



执行董事代表公司与各单位签订安全生产责任书
The executive director signed the safety production responsibility letter with the project department on behalf of the Company

培育安全文化建设

Safety culture creation

2021年，中材建设持续推进安全文化体系建设，加强安全宣传引导，突出强调培训的针对性和成效性，契合管控重点，设计开发防恐袭技能培训、个人健康管理等新颖课程，以“线上”+“线下”相结合的培训模式，提升全员安全素养和安全意识。2021年，公司开展安全培训2300余场，培训近40000人次，培训覆盖率100%。

In 2021, CBMI continued to promote the construction of safety culture system, strengthened safety publicity and guidance, highlighted the pertinence and effectiveness of training, grasped the key points of management and control, designed and developed novel courses such as anti-terrorist skill training and personal health management, and adopted the “online” + “offline” training mode to enhance the safety literacy and safety awareness of all employees. In 2021, the Company conducted more than 2,300 safety trainings involving nearly 40,000 person-times, with a training coverage rate of 100%.



“安全生产月”部署动员大会
Standard for Safety Signs - Safety and Happiness Signs



安全急救吊篮展开救援
Specification for Safety Rope Drawing for Aerial Work

夯实安全管理 抓好疫情防控

Consolidate safety management on, Pay close attention to epidemic prevention and control

加强科技兴安管理

Safety management through technology

2021年，中材建设推进“工业互联网+安全生产”试点建设，将互联网、信息化技术与安全生产深度融合，借助科技进步促进安全生产工作提质增效，提升本质安全型企业建设水平。

在项目建设中，中材建设充分利用视频巡查系统和智慧眼镜开展远程监控、安全检查，帮助现场消除事故隐患，遏制安全事故；广泛应用“魔学院”云平台，开播安全、环保、健康等网络课程，积极建设学习型企业。

In 2021, CBMI promoted the pilot construction of “Industrial Internet + Safety Production”, deeply integrated the Internet, information technology and safety production, promoted the quality and efficiency of safety production with the help of scientific and technological progress, and improved the construction level of intrinsically safe enterprises.

In the project construction, CBMI made full use of the video inspection system and smart glasses to carry out remote monitoring and safety inspection to help eliminate hidden dangers of accidents and curb safety accidents on site; widely used the “moxueyuan.com” cloud platform to offer online courses on safety, environmental protection and health, and actively built itself into a learning enterprise.



应用智慧眼镜开展远程安全检查
Application of smart glasses to carry out remote safety inspection

关注员工健康

Care for the physical and mental health of employees

中材建设注重提升员工健康水平，关注员工身心健康。严密疫情防控，切实保障员工健康上岗，持续进行外派员工健康适岗评估1088例次，减少海外项目恶性急性医疗事件发生率；建立境外现场医疗配置标准，制定突发疾病诊治方案，专业力量助力境外医疗管理标准化、规范化；定期发布健康宣传海报和全球传染病疫情预警信息26期，引导员工树立积极健康心态；开展境外项目医务室能力建设帮扶，邀请国内三甲医院副主任医师，以直播课方式完成4场次，43项现场临床救治流程在线培训，全方位提升境外现场医疗救治能力和医务室管理水平。公司大力倡导健康文化，全面升级员工健康管理，推动企业建设与员工健康协调发展。

CBMI paid attention to improving the health level of employees and their physical and mental health. CBMI implemented strict pandemic prevention and control, effectively protected the health of employees on duty, and continued to conduct 1088 times of health assessment of expatriate employees to reduce the incidence of malignant and acute medical incidents in overseas projects; established overseas on-site medical resource allocation standards, formulated sudden disease diagnosis and treatment plans, and utilized professional strength to help standardize overseas medical management; regularly published 26 issues of health posters and global infectious disease epidemic warning information to guide its employees to establish a positive and healthy attitude; carried out assistance for infirmary capacity building of overseas projects, and invited associate chief physicians of domestic 3A hospitals to complete online training of 43 on-site clinical treatment processes by offering 4 live classes, so as to comprehensively improve overseas on-site medical treatment capacity and infirmary management level. The Company vigorously advocated health culture, comprehensively upgraded employee health management, and promoted the coordinated development of corporate construction and employee health.



境外项目现场医疗能力建设培训
On-site medical capacity building training of overseas projects

提升境外安保管理

Improving overseas security management

中材建设坚持“以人为本、预防为主、安全发展”理念，狠抓境外公共安全管理不放松，不断修订完善境外公共安全管理体制体系，深入开展社会安全风险评估，积极组织境外安全风险防范培训，加强境外员工身心健康管理，持续推进安全风险排查和应急能力建设，加强风险信息收集和分析研判，统筹推进国别风险提示和安全风险预警，多年来保持境外公共安全“零死亡”。

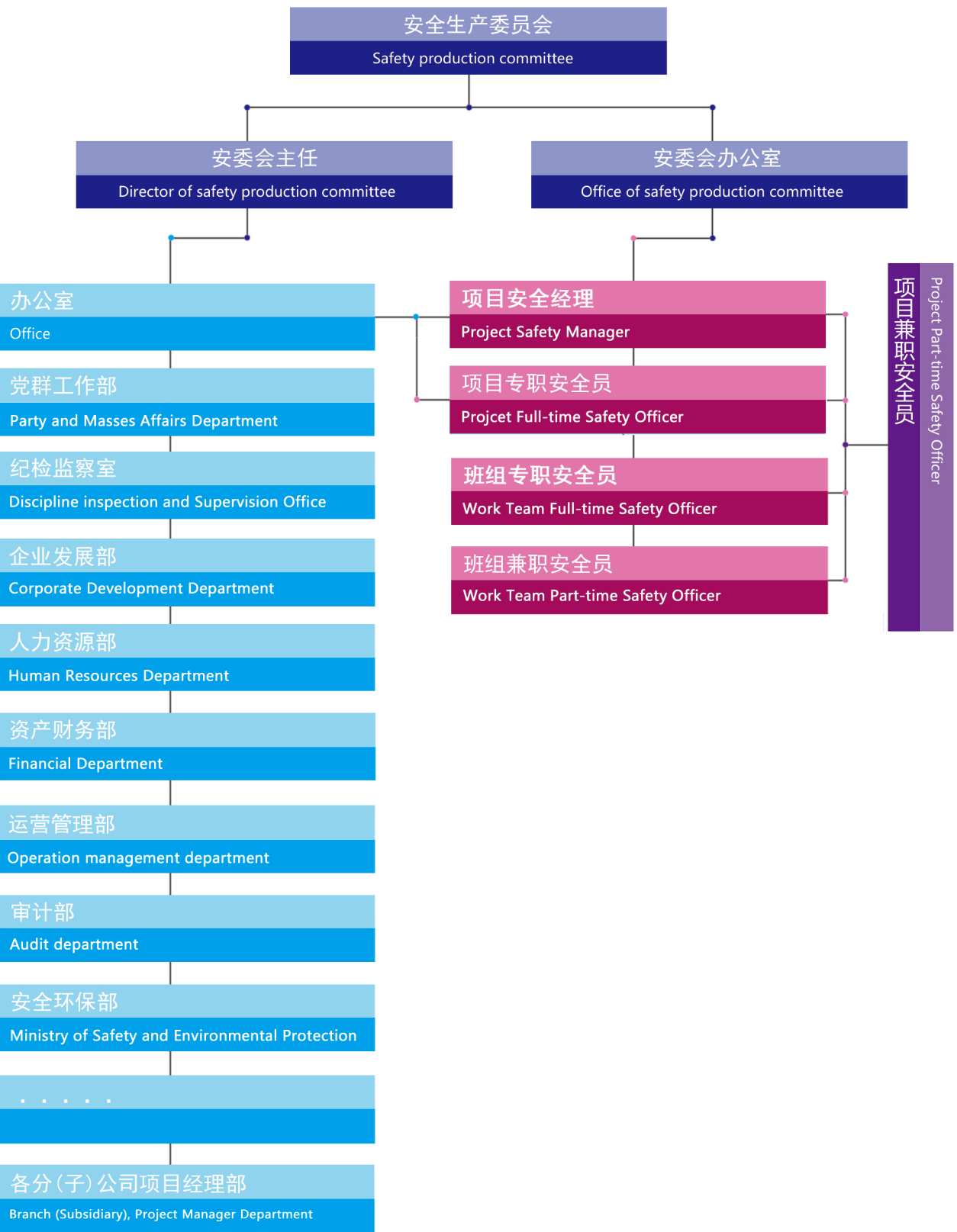
CBMI has adhered to the concept of “people-oriented, prevention first and safe development”, paid close attention to overseas public safety management, and constantly revised and improved the overseas public safety management system. In addition, CBMI strives to carry out in-depth social security risk assessment, actively organize overseas security risk prevention training, strengthen the physical and mental health management of overseas employees, continuously promote security risk investigation and emergency response capacity building, strengthen risk information collection, analysis and judgment, and make overall plans to promote country-specific risk warning and security risk early warning, so as to maintain “zero death” in overseas public safety for many years.

夯实安全管理 抓好疫情防控

Consolidate safety management on, Pay close attention to epidemic prevention and control

中材建设安全生产管理组织机构图

CBMI Safety Production Management Organization Chart



倡导节能环保 共建绿色生态

Advocate energy saving, environmental friendly and build a green ecology

节能环保技术研发

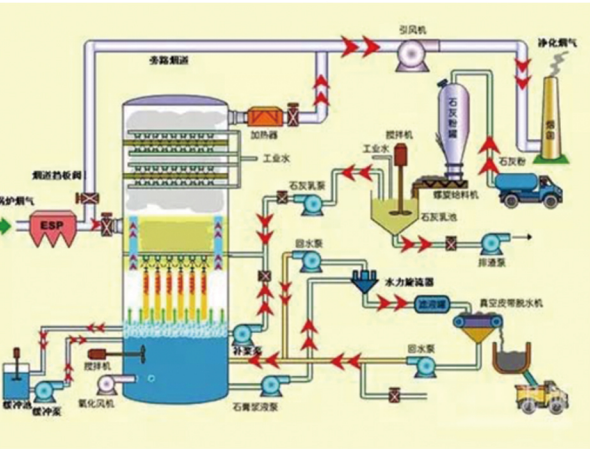
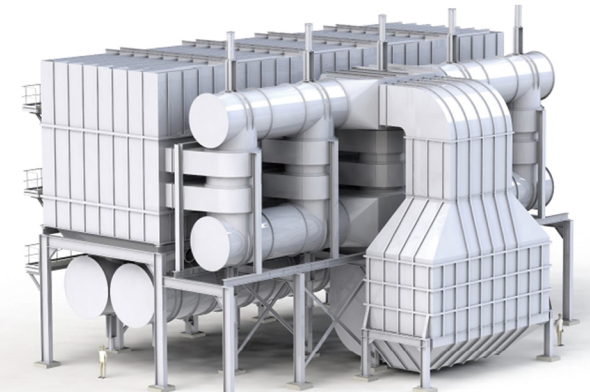
Research and development of energy saving and environmental technology

水泥工业绿色技术和装备创新平台

面对愈加严格的水泥工业有害物排放要求，利用水泥工业绿色技术和装备创新平台，可对水泥工业氮氧化物、硫化物、挥发性有机物等有害物排放控制方法的研究。专注研究脱硫、脱硝及去除VOC技术及开发相应装备，研究开发高效自脱销炉，自脱销效率达到50%以上，研究应用SCR脱销技术，NOX排放≤50mg/Nm3；研究开发复合脱硫技术，SO2排放≤35mg/Nm3；研究应用RT0蓄热式热力焚烧炉等装备，去除烟气中的VOC成分。

Green technology and equipment innovation platform for cement industry

Facing the increasingly stringent emission requirements of harmful substances in the cement industry, CBMI has studied the emission control methods of harmful substances such as nitrogen oxides, sulfides and volatile organic compounds in the cement industry by using the green technology and equipment innovation platform for cement industry. CBMI has focused on the research on desulfurization, denitration and VOC removal technologies and the development of corresponding equipment, researched and developed high-efficiency self-denitration furnaces with self-denitration efficiency reaching over 50%, researched and applied the SCR denitration technology, with NOX emission ≤ 50 mg/Nm3; researched and developed composite desulfurization technology, with SO2 emission ≤ 35 mg/Nm3; researched and applied the RTO and other equipment to remove VOC components in flue gas.



水泥工业绿色技术和装备创新平台流程图

Flow Chart of Green Technology and Equipment Innovation Platform for Cement Industry

倡导节能环保 共建绿色生态

Advocate energy saving, environmental friendly and build a green ecology

节能环保生产实例

Examples of energy saving and environmental production

水泥行业的发展需要大量的燃料，而随着燃煤的价格上涨和供应紧缺，以及产生大量二氧化碳带来严重的环境问题，寻找替代燃料用来煅烧水泥成为行业发展的新趋势。塞内加尔项目所用替代燃料为废旧轮胎以及生物质替代料花生壳。

项目应用此项技术达到的效果：使用废旧轮胎的燃料热量替代率为20%，花生壳的燃料热量替代率约为13%，项目规模6000t/d，年节约标煤6万吨，二氧化碳减排17万吨，具有显著的经济效益和社会环境意义。

中材建设经过多年研究和技术累积，在水泥企业碳排放方法中，通过梳理不同替代燃料的特性及技术路径，系统性研究和掌握替代燃料处理技术，不断提高燃料替代率，更好地满足客户需求，提高市场竞争力。

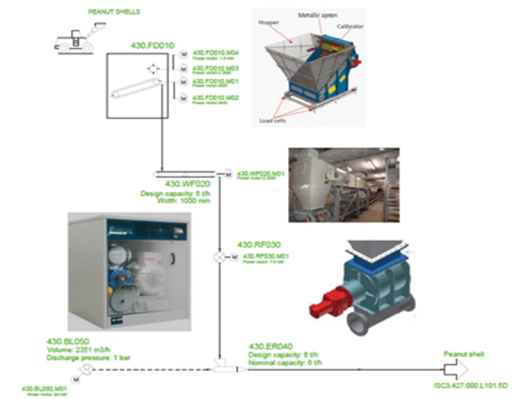
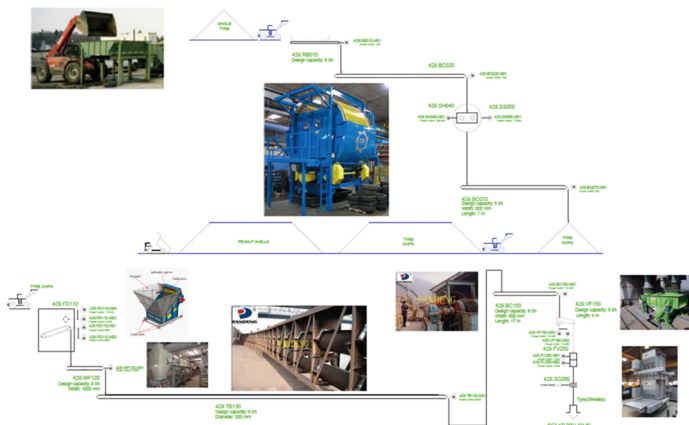
The development of cement industry is inseparable from a large amount of fuel. With the rising price of coal and the supply shortage, as well as the serious environmental problems caused by the production of a large amount of carbon dioxide, it has become a new trend to find alternative fuels to calcine cement. The alternative fuels used in Senegal project are waste tires and biomass alternative fuel peanut shells.

The application of this technology in the project has achieved the following results: the fuel heat replacement rate of waste tires is 20%, the fuel heat replacement rate of peanut shells is about 13%, the project scale is 6000t/d, the annual standard coal is saved by 60,000 tons, and the carbon dioxide emission is reduced by 170,000 tons, which has remarkable economic benefits and social and environmental significance.

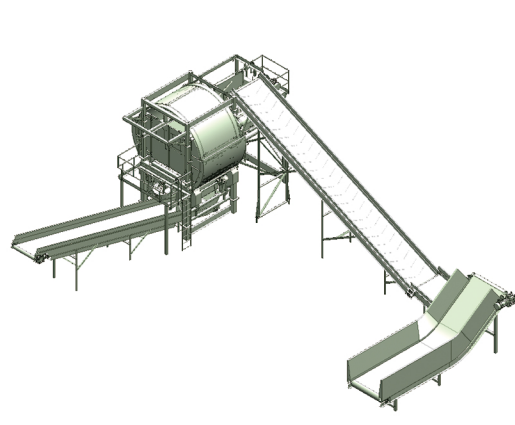
Through many years of research and technology accumulation, CBMI conducts systemic research and masters alternative fuel processing technology by streamlining characteristics and technical route of different alternative fuels in cement carbon emission reduction. The Company hopes to improve fuel alternative rate, better meet customers' demands and improve market competitiveness.



塞内加尔SC3项目全景近照
Panoramic Close-up of SC3 Project in Senegal



处置设备及流程
Disposal equipment and process



法国MK3 2500t/d水泥熟料生产线项目应用最新的可替代燃料技术（AFR），在原厂内建设新的现代生产线以优化碳排放，燃料综合替代率达到80%以上，并且解决了日常生活中产生的液体及固体废弃物处理问题。建成后是法国AFR垃圾吞吐量NO.1的现代化绿色水泥工厂，拥有全球行业内领先的生产技术和工艺设备，每年可减少二氧化碳排放16.3万吨。

法国MK3项目在应用替代燃料实现节能减碳绿色生产的道路上具有里程碑意义。受到了世界水泥业界的最为权威的期刊-International Cement Review杂志的关注。

MK3 2500t/d Cement Clinker Production Line Project in France applies the latest alternative fuel technology (AFR), and builds a new modern production line in the original plant to optimize carbon emission reduction. The comprehensive fuel substitution rate reaches over 80%, and it solves the problem of liquid and solid waste treatment in daily life. Upon completion, it is a modern green cement plant with NO.1 AFR garbage throughput capacity in France, with leading production technology and process equipment in the global industry, which can reduce carbon dioxide emissions by 163,000 tons every year.

France MK3 Project is of milestone significance in the application of alternative fuels to realize energy saving and carbon reduction in green production. It has attracted the attention of International Cement Review, the most authoritative journal in the world cement industry.



国际水泥评论- International Cement Review杂志报道全文

Full press coverage of International Cement Review

关爱员工利益 共创和谐企业

Care for employees' interests and create a harmonious enterprise jointly

中材建设始终坚持以人为本，充分发挥“家”文化的引领作用，实现了“鼓舞员工士气、规范管理行为、促进人才培养、优化资源配置、提升管理效能、确保合同履行”多项经营管理目标。

CBMI always adheres to the people-oriented principle, gives full play to the leading role of “home” culture, and has achieved a number of management objectives of “boosting employee morale, standardizing management behavior, promoting personnel training, optimizing resource allocation, improving management efficiency and ensuring contract performance” .

尊重保护员工权益

Respect and protect the rights and interests of employees

截止 2021 年底，中材建设拥有员工 1099 人，大专及以上学历人员 770 人，占公司总人数的 70.06%；拥有科研人员 203 人，占公司总人数的 18.5%；2021 年公司新增员工 36 人，其中校园招聘 27 人、社会招聘 9 人。

2021 年，中材建设工会认真履行职能，做到疫情防控与生产经营“两手抓、两不误、两促进”，确保职工民主管理。建立职工诉求表达机制，维护职工合法权益。通过职代会审议公司工作报告，表决通过与切身利益相关的事项。

By the end of 2021, CBMI owns 1,099 staff, and has 770 staff holding college degree and above, accounting for 70.06% of total corporate staff. The Company owns 203 research staff, accounting for 18.5% of total corporate staff. In 2021, the Company introduced 36 new employees, including 27 recruited from campus and 9 from society.

In 2021, CBMI earnestly performed responsibilities, and attached parallel importance to pandemic prevention and production operation and secured democratic management on employees. The Company establishes employee complaint mechanism and safeguards legal interests of interests. The Company deliberates corporate work report through employee representative meeting and shows opinion matters related to employees' immediate interests.

开展“送温暖”活动

Carry out "sending warmth" activity

2021 年，中材建设为 37 名困难职工或遗属发放慰问金。慰问 12 名生病职工、去世职工家属及直系亲属去世职工。

2021 年，中材建设各分（子）公司、项目经理部根据本单位实际情况通过不同方式，积极服务职工，关心职工生活，疏解职工焦虑情绪和心理压力，促进职工的身心健康。并在中国传统节日时组织职工包饺子、贴春联、放烟花等活动，使职工享受节日气氛，感受到公司的温暖。阿尔及利亚、尼日利亚、俄罗斯、菲律宾等工会分会还号召职工利用项目内设施开展跑步、乒乓球、篮球等体育锻炼，通过运动释放压力，提高自身免疫力。为患新冠病毒失去生活来源的当地员工进行募捐，使该员工度过难关。及时为俄罗斯员工发放御寒物资，避免员工在俄罗斯漫长且寒冷的冬季出现冻伤的情况。在“三八”妇女节，圣诞节时为员工送上精美的节日慰问礼包，使大家感受到中材建设的温暖，塑造具有人文关怀的优秀中国企业形象。

In 2021, CBMI sent relief fund to 37 employees in need or their families, and showed relief to 12 sick employees, family or immediate relative of deceased employees.

In 2021, according to the actual situation of the unit, each branch (subsidiary) and project management department of CBMI actively served the employees, cared for their lives, relieved their anxiety and psychological pressure, and promoted their physical and mental health. In traditional Chinese festivals, CBMI would organize employees to make dumplings, paste Spring Festival couplets, set off fireworks, etc., so that employees could enjoy the festive atmosphere and feel the warmth of CBMI. Trade union branches in Algeria, Nigeria, Russia and the Philippines would also call on employees to use the facilities within the project site to carry out physical exercises such as running, table tennis and basketball, so as to release stress and improve their immunity through sports. Fund-raising was conducted for the local employee with COVID-19 who lost his source of income, so that the employee could tide over the difficulties. Cold-proof materials were timely distributed to Russian employees to protect employees against frostbite in Russia's long and cold winter. Beautiful holiday gift packages were sent to employees on March 8 Women's Day and Christmas, so that employees could feel the warmth of CBMI and the image of an outstanding Chinese enterprise with humanistic care could be created.



公司开展三八节“与花共舞、与花为伴”花艺沙龙活动

“Confronting Pandemic with One Mind and Heart” overseas pandemic prevention and control physical and mental guidance system

做好爱心互助活动

Do well in the "love and mutual assistance" activity

2021 年，中材建设“爱心基金会”为符合受助条件的 7 名会员本人或家属给予了资助。这项“暖心工程”切实为公司广大职工筑起抵御风险的保障线，撑起遮风挡雨的保护伞，建起温暖幸福的“家园”，实现了公司帮扶工作长效化、常态化。

2021 年，中材建设通过“禾苞蛋”平台定点帮扶一区四县的农副产业，为全面推进乡村振兴贡献力量。

In 2021, CBMI's "care foundation" offered relief for 7 eligible members or families. Such "care engineering" provides a substantive security line for vast employees as well as a weather-proof umbrella. Such a warm and happy "homeland" makes the Company relief permanent and normalized.

In 2021, CBMI assisted the agricultural and sideline industries in one district and four counties through the platform of “Hebaodan”, and contributed to the comprehensive promotion of rural revitalization.

积极为职工服务

Actively serving employee

2021 年，中材建设关心职工健康，继续为全体在职职工、退休职工办理平安住院安心保险和补充医疗保险，生病职工的正常医药费用基本上全部能够报销，减轻了生病职工的经济负担。组织在职职工、退休职工进行健康体检，加强人文关怀。为中材建设“家文化”筑牢分（子）公司、项目经理部稳定之基。

In 2021, CBMI cared for employee health, continued to provide assured insurance and additional medical insurance for active and retired employees. Normal medical expenses of sick employees can be basically covered, which alleviates financial burden of sick employees. The Company conducted physical examination on active and retired employees and provided more humane care, which build a stable foundation for the Company's "family culture" and its sub-companies and project management departments.

丰富员工业务文化生活

Rich cultural activities

2021 年，中材建设积极开展活动，丰富职工文化生活，增强企业员工身体素质，调动员工工作热情，提高团队协作意识，营造出健康向上的工作氛围。公司工会举办中材建设职工书画摄影展，组织开展“追梦 100 公里、献礼建党 100 周年”跑步活动；“同心奋进创新功献礼建党 100 周年”羽毛球赛；“凝心聚力促生产庆祝建党一百年”乒乓球赛等活动。

In 2021, CBMI actively carried out activities to enrich the cultural life of employees, enhance their physical fitness, mobilize their enthusiasm for work, improve their sense of teamwork and create a healthy and positive working atmosphere. The Company's trade union held a calligraphy and painting photography exhibition for CBMI employees, and organized the running competition themed by “Chase dreams for 100 kilometers and offer gifts for the 100th anniversary of the founding of the Party”, badminton competition themed by “Make concerted efforts to struggle and innovate and offer gifts for the 100th anniversary of the founding of the Party”, and table tennis competition themed by “Promote production with common strength and celebrate the 100th anniversary of the founding of the Party” .



羽毛球赛
Badminton Competition

加强社区交流 共建社会关系

Strengthen community communication and build a social relation jointly

作为联合国全球契约组织成员,中材建设一直秉承集团提倡的坚持为当地经济发展做贡献、坚持和当地企业合作、坚持和当地政府、社区、居民友好相处的合作共赢原则,积极履行应有的社会责任,充分体现国际化公司的企业担当。

As a member of the United Nations Global Compact, CBMI upholds the Corporation-held ideas to contribute to local economic development, cooperate with local enterprises and have good relationship with local government, community and residents. The Company actively performs the due social responsibility and takes action as an international company.

改善当地生活环境

Improve local living environment

中材建设一直致力于为尼日利亚地区生产高质量可靠的产品,为当地居民提供更多就业机会,改善民众生活。将履行社会责任当己任,力争为中尼两国文化交流做出突出贡献,用实际行动讲好中国故事,树立中国企业的良好公众形象,有效提升企业的品牌影响力。

CBMI has been committed to producing high-quality and reliable products for Nigeria, providing more employment opportunities for local residents and improving people's lives. CBMI is committed to fulfilling social responsibilities, making outstanding contributions to the cultural exchanges between China and Nigeria, telling Chinese stories well with practical actions, establishing a good public image of Chinese enterprises, and effectively enhancing its brand influence.

2021年,中材建设尼日利亚制造有限公司为女子学校修缮房屋,尼日利亚FABCOM工厂开展“云开放”日、中华文化进工厂活动,事迹被人民网及当地主流媒体广泛报道并受到了社会各界的广泛关注。

In 2021, CBMI Nigeria Manufacturing Co., Ltd. repaired houses for a girls' school, and FABCOM Factory in Nigeria launched the activities such as "Cloud Opening" Day and promotion of Chinese culture in factory. The deeds were widely reported by people.com and local mainstream media and received wide attention from all walks of life.



尼日利亚公司为当地政府女子学校“中国之角”修缮房屋
CBMI Nigeria Manufacturing Co., Ltd. repaired houses for the local government girls' school "Chinese Corner"



尼日利亚FABCOM工厂“云开放”日
"Cloud Opening" Day of FABCOM Factory in Nigeria

南非公司、南非丰益国际项目部,在圣诞节来临之际,与丰益项目团队代表、当地开发区管委会代表、工会代表等人员前往南非项目驻地近30公里之外的偏远山区恩塞莱尼 Musawenkosi 机构看望孤儿,向孤儿院捐赠教学器材和体育用品。

As Christmas approached, South African Company and Wilmar International Project Department in South Africa, together with Wilmar project team representatives, local development zone management committee representatives, trade union representatives and other personnel, went to visit orphans in Musawenkosi located in Enseleni, a remote mountainous area nearly 30 kilometers away from the project site in South Africa, and donated teaching equipment and sporting goods to orphanages.



南非丰益国际项目向当地孤儿院
捐赠教学器材和体育用品

Wilmar International Project Department in South Africa donated teaching equipment and sporting goods to a local orphanage.

增进社区文化交流

Promote community cultural exchange

尼日利亚公司、SOKOTO项目、EDO项目等积极履行社会责任,为项目周边村民修建道路、提供水源、当地学校捐赠、邀请当地青年协会学生参观厂区等,多个履行社会责任事迹入选《中央企业海外社会责任蓝皮书》。

菲律宾项目部秉持“属地经营,服务社会”的理念,积极融入当地社区,关心当地雇员,为社区和居民提供力所能及的帮助。项目部向当地社区赠送木材,用以帮助社区贫困家庭房屋修缮。向当地困难家庭成员进行走访和慰问。

CBMI Nigeria Manufacturing Co., Ltd., SOKOTO project department, EDO project department, etc. actively fulfilled their social responsibilities, built roads and provided water sources for villagers around the project sites, donated to local schools, invited students from local youth associations to visit the factory area, etc., and many deeds of fulfilling social responsibilities were selected into the Research Report on Overseas Social Responsibility of Central Enterprises.

Adhering to the concept of "local management and serving the society", the Philippine Project Department actively integrated into the local community, cared for local employees, and provided assistance for the community and residents within its capacity. The project department donated timber to the local community to help repair the houses of poor families in the community, visited and offered gifts to local family members in difficulty.



菲律宾项目向当地周边居民捐赠物资
The Philippine Project Department donated materials to local surrounding residents



阿尔及利亚区域各单位组织开展开斋节慰问当地员工活动
All units in Algeria organized to offer gifts to local employees on Eid al-Fitr



尼日利亚EDO3项目部圣诞节慰问当地员工
Nigeria EDO3 Project Department express condolence to local employee on Christmas



圣诞节前夕中国建材尼日利亚新材料有限公司慰问当地员工
New Materials, Nigeria Ltd express condolence to local employee on Christmas Eve

探索发展

Explore Development

探索发展

Explore Development

数字化及智慧建造

Digitization and Intelligent Building

中材建设聚焦“数字化及智慧建造”提质增效，数字化联接设计、建造、运维等各阶段数据，驱动价值流动，形成独有的涵盖EPC全流程的“智慧建造”服务。中材建设从2008年设备三维设计、2012年工厂三维设计到2018实现全工厂全专业数字化设计，借助数字化设计技术，对工厂进行三维建模，实现虚拟模型与现实工厂的完整映射。在此基础上，对建造全过程及周边环境关系进行仿真模拟，提前预知，实现建造综合效益最优。未来，中材建设要从“传统企业”打造为“工业互联网企业”，实现数字设计、智能制造、智慧建造、数字交付、智慧运维、企业管理等全产业链数字化。重塑新形势下公司核心竞争力和竞争优势。

CBMI focuses on quality and performance enhancement by "Digitization and intelligence building", instills digitization into design, construction, operation and maintenance and drive value circulation to form the unique EPC "intelligent building" services. CBMI achieves mapping of digital model and real plant and conducts 3D plant modeling by digital design technology, for example equipment 3D design in 2008, factory 3D design in 2012 and whole factory digital design in 2018. Besides, the company conducts simulation on the whole process and surrounding environment, and provides forecast to optimize comprehensive benefits. In the future, CBMI aspires to be an "enterprise of industrial internet", and achieves digitization of the entire industry chain of digital design, intelligent manufacturing, smart building, digital delivery, smart operation, maintenance and enterprise management. The company is ready to reshape the corporate core competitiveness under the new situation.

属地化经营

Localized Operation

中材建设依托亚、欧、非、美全球12家属地化公司经营布局，扎根、深耕、精耕属地市场，打造阿尔及利亚、尼日利亚、俄罗斯、菲律宾、南非五大区域中心，进一步打造长期扎根海外、独立造血的经济实体。未来，中材建设要不断推动企业人才、技术、管理等内部优质资源向属地市场前沿聚集，形成“小总部+大属地”发展格局。主动融入所在国产业链、供应链和经济社会发展，实现从经营项目向经营市场转变，打造属地化支柱市场、五大区域中心、境外亿元利润平台，继续为推动共建“一带一路”高质量发展贡献力量。

CBMI supports operation of 12 localized companies in Asia, Europe, Africa and America, deeply explores and expands localized market, builds five regional centers in Algeria, Nigeria, Russia, Philippines and South Africa, and further prospers the self-sustaining economic entities overseas. In the future, CBMI aims to amass internal advantageous resources of talents, technologies and management in the localized market, forming a development pattern of "small headquarters + large territory" and actively gets integrated into the local industrial chain, supply chain and economic and social development. The Company tends to actively embrace the localized market, builds localized pillar market, five regional centers and overseas platform with a profit of over RMB 100 million, and continues to contribute to the "Belt and Road" high quality development.

产业化发展

Industrialized Development

中材建设依托阿尔及利亚、尼日利亚、俄罗斯、菲律宾、南非五大属地化区域中心，积极推进轻制造业投资、自主业务投资和集团国际化协同投资。加快屋面系统产业投资布局，构建彩石瓦屋面系统非洲市场领先地位。未来，中材建设通过原材料生产本土化、产品加工多元化、网络覆盖全面化及解决方案一体化，加速实现屋面系统产业链的全覆盖，为新兴市场国家与发展中国家提供全价值链屋面系统高质量产品和服务，致力成为全球领先的屋面系统综合服务商。

CBMI has relied on five localized regional centers in Algeria, Nigeria, Russia, the Philippines and South Africa, and actively promoted investment in light manufacturing, investment in independent business and international collaborative investment of the Group. CBMI has accelerated the investment layout of roofing system industry and built its leading position of colored stone tile roofing system in African market. In the future, CBMI will accelerate the full coverage of the roofing system industry chain through localization of raw material production, diversification of product processing, comprehensive network coverage and integration of solutions, provide high-quality roofing system products and services in the full value chain for emerging market countries and developing countries, and strive to become the world's leading integrated roofing system service provider.



责任绩效

Responsibility performance

2021年度关键责任绩效

2021 Key Responsibility Performance

2021年，中材建设经营生产稳步提升、发展后劲持续积聚、经济效益显著提高、创新活力日益增强，公司经营管理各项工作取得了新进展、新成效、新突破，实现了公司发展质量和经济效益同步增长，经营目标任务圆满完成，企业竞争力不断增强。

In 2021, CBMI steadily improved its operation and production, continued to accumulate development potential, significantly improved economic benefits, and increased innovation vitality. The Company's operations and management have achieved new progress, new results, and new breakthroughs. CBMI kept its development quality and economic interests in step, successfully completed business objectives and tasks, and continuously improved corporate competitiveness.

2021年度关键责任绩效

2021 Key Responsibility Performance

经济责任

Economic Responsibility

指标名称 Index	指标值 Index Value
营业收入（亿元）CBMI 全资 Business revenue (RMB 100 million) CBMI wholly-owned	39. 14
纳税总额（亿元） Total tax (RMB 100 million)	1. 52
国有资产保值增值率（%） Value preservation and appreciation rate of State-owned assets (%)	112. 58
净资产收益率（%） Return on equity (%)	16. 69
经济增加值（亿元） Economic value added (100 million yuan)	9. 3
毛利率（%） Gross profit rate (%)	20. 76
人均创利税（万元） Per capita profit and tax (RMB 10 thousand)	58. 6
全新新签合同额（亿元） Newly signed contract value (RMB 100 million)	46. 44
完成出口额（亿美元） Completed export value (USD 100 million)	2. 29

产品责任

Product Responsibility

指标名称 Index	指标值 Index Value
2021年在建项目数量 Number of projects under construction in 2021	28
2021年完成项目数量 Number of projects completed in 2021	1
2021年开工项目数量 Number of projects started in 2021	5
2021年取得PAC证书数量 Number of PAC certificates obtained in 2021	2
业主综合满意度（%） Comprehensive satisfaction of owners (%)	95
业主分项满意度（%） Satisfaction of owner per item (%)	93
合同履约率（%） Contract performance rate (%)	100
取得经由国家授权的专利（项） Patents (items) licensed by the state	24
截至目前累计拥有专利（项） Accumulated patents (items) so far	64
技术研发主要成果（项） Research achievements (items)	19
增加并完善企业标准（项） Corporate standards added or improved (items)	17

2021年度关键责任绩效

Key responsibility performance in 2021

安全责任

Safety Responsibility

指标名称 Index	指标值 Index Value
安全培训覆盖率（%） Safety training coverage rate (%)	100
重伤以上事故发生率 Incidence rate of serious injuries or more	0
劳动环境与劳动条件治理后的有害作业场所达标率（%） The compliance rate of hazardous workplaces after treatment (%)	100
事故隐患整改完成率（%） Completion rate of punch list (%)	100
特种作业人员持证上岗率（%） Percentage of special operators with certificates (%)	100

环境责任

Environment Responsibility

指标名称 Index	指标值 Index Value
有毒有害废弃平均回收率（%） Average recovery rate of toxic and hazardous waste (%)	100
项目施工噪声超标、投诉次数 Project construction noise exceeding standard, number of complaints	0
节能减排法规宣传覆盖率（%） Promotion coverage rate of energy conservation and emission reduction laws and regulations (%)	100

员工责任

Employee Responsibilities

指标名称 Index	指标值 Index Value
年末员工总数 Year-end total number of employees	1099
中层以上管理者中女性员工比例（%） Proportion of female employees among middle-level managers and above (%)	3. 9
少数民族员工人数 Number of minority employees	34
残疾员工人数 Number of employees with disabilities	2
员工参与工会组织率（%） Rate of employee participation in union organization (%)	100
劳动合同签订率（%） Rate of signing labor contracts (%)	100
社会保险覆盖率（%） Social insurance coverage rate (%)	100
参保雇主责任险（人次） Employer liability insurance (persons)	712
- 支付金额（万元） - Payment amount (RMB 10 thousand)	128. 16
参保意外伤害险（人） Accidental injury insurance (persons)	712
- 支付金额（万元） - Payment amount (RMB 10 thousand)	74. 91
年培训总投入（万元） Total annual training investment (RMB 10 thousand)	72
接受体检的员工比例（%） Proportion of employees receiving medical examination (%)	100
发生劳动争议人数 Number of labor disputes	0
普通员工人均收入较上年增长（%） Per capita income of ordinary employees increased over the previous year (%)	0. 8

未来展望

Future Outlook

经营发展

Business Development

2022年，中材建设坚持致力打造“国际一流工业工程公司”的业务定位，坚持水泥工程、多元工程、产业发展三大主业，坚持国际化、数字化、属地化、多元化、产业化发展方向，以创新驱动发展、以改革赋能发展、以国际化促进发展、以党建引领发展，立足新发展阶段，贯彻新发展理念，构建新发展格局，为做好“六稳”“六保”工作、稳定宏观经济大盘、保持经济运行在合理区间、保持社会大局稳定作贡献，以优异成绩迎接党的二十大胜利召开。

2022年，中材建设将在重点区域同重点客户深入推动全方位、多层次、前瞻性的合作关系，着力打造国际国内取长补短的新发展优势。继续巩固主业市场，挖掘潜力市场。做强传统水泥和水泥工程+业务，突出节能环保绿色新理念，打造新亮点，在持续巩固水泥业务份额的基础上，进一步提升市场占有率。多元业务充分利用属地化优势，积极聚焦主赛道，借助外部力量实现发展，积累经验和业绩。坚定不移地推进屋面系统产业化发展，谋篇布局，排兵布阵，紧紧抓住产业化发展窗口期，做好顶层设计，明确实施图和路径图；确立合理的成长路径和竞争策略。

2022年，公司将充分发挥属地化经营优势，公司总部、五大区域中心、七家属地化公司要形成统分结合、上下贯通、协同支撑、优势互补的联动机制，打好市场经营“组合拳”，用属地化促进公司国际化发展、高质量可持续发展。

In 2022, CBMI will adhere to the business orientation of building itself into a “world-class industrial engineering company”, adhere to the three main businesses, including cement engineering, diversified engineering and industrial development, and adhere to the development direction of internationalization, digitalization, localization, diversification and industrialization. CBMI will strive to drive development with innovation, empower development with reform, promote development with internationalization, and lead development with Party building. Based on the new development stage, CBMI will implement the new development concept, build a new development pattern, and make contributions to doing a good job of “six stabilities” and “six guarantees”, stabilizing the macroeconomic market, keeping the economy running in a reasonable range, and maintaining the overall social stability, so as to embrace the successful convening of the 20th National Congress of the CPC with excellent achievements.

In 2022, CBMI will further promote all-round, multi-level and forward-looking partnership with key customers in key areas, strive to create new development advantages that learn from each other's strengths at home and abroad, and continue to consolidate the main business market and tap the potential market. In addition, CBMI will strengthen the traditional cement and cement engineering + business, highlight the new green concept of energy conservation and environmental protection, create new highlights, and further enhance its market share while continuously consolidating its cement business share. Diversified businesses will make full use of the advantages of localization, actively focus on the main track, achieve development with the help of external forces, and accumulate experience and achievements. CBMI will unswervingly promote the industrialization development of roofing system, plan the layout, make proper arrangements, firmly grasp the window period of industrialization development, do a good job in top-level design, clarify the implementation map and road map, and establish a reasonable growth path and competitive strategy.

In 2022, CBMI will give full play to the advantages of localized operation. The headquarters, five regional centers and seven localized companies should form a linkage mechanism of integration of unification and division, integration from top to bottom, collaborative support and complementary advantages, and properly exert the influence of “combination boxing” of market operation, so as to promote its international development and high-quality sustainable development with localization.

管理提升

Management Enhancement

2022年，中材建设按照“坚持效率优先、效益优先、坚持主业突出专业化，坚持精细精简精干，坚持“价本利”经营理念，坚持一线作风，坚持整合优化，坚持数字化，坚持战略、市场、资金、成本、效益的投资五要素，坚持党建经营两手抓”的管理原则。通过精细化手段促进项目毛利率持续提升。加强业务链精细化管理，深入实施对标世界一流管理提升行动，逐步建立差异化、科学化、精准化的管控模式和运营机制，持续提升运营管理效率效益。狠抓基础管理，加强财务管理，构建一体化财务管控体系，提升价值创造能力；加强人才队伍建设，做好人才规划的动态调整，加快青年人才培养步伐；加强信息化管理，促进业务与信息化的深度融合；加强风险管理，练好内功，完善防控体系，提高重大风险化解能力；加强安全管理，筑牢安全生产、生态环保防线，夯实公司高质量发展基础保障。

In 2022, CBMI will adhere to the principles of “giving priority to efficiency and benefit, highlighting specialization in the main business, and being fine, streamlined and lean”, adhere to the business philosophy of “price-cost-profit”, and adhere to the front-line style. Through refined means, the Company promotes growth of gross margin. The Company enhances refined management of business chain, deeply implement the campaign to be aligned with the world's first-class management, gradually establish the differentiated, scientific and precise management control mode and operation mechanism and continuously enhance business management efficiency and interest. The Company attaches importance to fundamental management, finance management, establish integrated finance management control system and enhance value creation capability. The Company strengthens talent building, attaches importance to dynamic adjustment of talent planning and speed up cultivation of youth talents. The Company consolidates informationization management, promotes deep integration of business and informationization; consolidates risk management, improves prevention and control system and enhance capability to resolve major risks; heighten safety management, consolidate the defense line of safety production, ecological protection and provide a basic security for the Company's high-quality development.

企业社会责任建设

Corporate Social Responsibility Construction

2022年，中材建设将持续加强社会责任建设，重视属地化、本土化，为当地经济做贡献。合法经营、依法纳税，做好世界公民。积极参加社会公益活动，与当地人民和谐相处。坚持“生命至上、以人为本、安全发展、绿色发展”的理念，做好安全生产。加强与联合国全球契约组织的沟通与交流，认真履行作为全球契约组织成员的责任和义务。

In 2022, CBMI will continue to strengthen social responsibility construction, attach importance to localization, and make contributions to the local economy. CBMI will operate business and pay taxes in accordance with the law, and be a global citizen. We actively participate in social welfare activities and live in harmony with local people and adhere to the concept of "life first, people-oriented, safe development, and green development" to ensure safe production. Besides, we will strengthen communication and exchanges with the United Nations Global Compact, and earnestly fulfill the responsibilities and obligations as a member of the Global Compact.

意见反馈表

Reader's Feedback Form

非常感谢您阅读《中材建设有限公司2020年度社会责任报告》。为不断提升中材建设社会责任报告的编写质量，更好地披露公司履行社会责任情况，期盼您对本报告提出宝贵意见和建议。请您填写以下问卷并按公司联系方式返回，我们承诺所有信息仅用于分析、改进报告编写工作。感谢您的反馈！

We sincerely appreciate for your reading of the CBMI SOCIAL RESPONSIBILITY REPORT 2020. To constantly boost the quality of the report and to better disclosure our CSR information,we expect comments and advice from you. Please fill out the questionnaire be low,and send it back according to the contact information. We promise that all the information will be only used for analysis and improvement of the repor.

您的基本信息 Basic Information					
姓 名 Name		电 话 Tel.		邮 箱 E-mail address	
工作单位 Employer				职 务 Position	
您对本报告的评价 Comments					
<p>请您在相应的“□”内打“√”： Please tick in the appropriate boxes.</p> <p>1. 您对本报告的总体评价是：</p> <p>1.Your overall evaluation of the report?</p> <p><input type="checkbox"/>很好 Great <input type="checkbox"/>较好 Good <input type="checkbox"/>一般 Moderate <input type="checkbox"/>较差 Poor</p> <p>2. 您认为本报告所披露信息的清晰、准确、完整性如何？</p> <p>2.What do you think of the clearness, accuracy and integrity of the disclosure information?</p> <p><input type="checkbox"/>高 Great <input type="checkbox"/>较高 Good <input type="checkbox"/>一般 Moderate <input type="checkbox"/>较低 Poor</p>					

3. 您对本报告的哪一部分最感兴趣？

2.Which part of the report interest you the most?

- ☐企业简介 About the Company
- ☐理念战略 Concept strategy
- ☐管理运营 Management operation
- ☐加强业务建设 确保优质服务 Strengthen business construction and ensure high-quality service
- ☐经营业绩攀新高 市场开拓创佳绩 Business performance reaches a new high, market development achieves good results
- ☐坚持创新驱动 改革赋能发展 Insist on innovation-driven reform and empower development
- ☐夯实安全管理 护航生产经营 Insist on innovation-driven reform and empower development
- ☐倡导节能环保 共建绿色生态 Advocate energy saving, environmental friendly and build a green ecology
- ☐关爱员工利益 共创和谐企业 Care employees’ interests and create a harmonious enterprise jointly
- ☐加强社区交流 共建社会关系 Strengthen community communication and build a social relation jointly
- ☐探索发展 Explore development
- ☐责任绩效 Responsibility performance
- ☐未来展望 Future outlook

4. 您认为本报告对利益相关方的期望进行的回应和信息披露程度如何？

4.What do you think of the extent of the information disclosure and the responses to the expectation of the interest parties?

- ☐很高 Great ☐较高 Good ☐一般 Moderate ☐较低 Poor

5. 您认为本报告的可读性如何？

5.How is the readability of the report?

- ☐很高 Great ☐较高 Good ☐一般 Moderate ☐较低 Poor

6. 您认为本报告的版式设计是否有利于您的阅读：

6.How is the format design of the report facilitating your reading process?

- ☐很高 Great ☐较高 Good ☐一般 Moderate ☐较低 Poor

您对中材建设社会责任工作及社会责任报告编写工作有何改进意见？
Your advice for CBMI's CSR work and compilation lf CSR Report

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