环保纸张

中国建材

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

UN GLOBAL COMPACT
WE SUPPORT

2019
中材建设有限公司
社会责任报告

CBMI SOCIAL RESPONSIBILITY REPORT

中国建材

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

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2019年6月5日，中国
国家主席习近平、俄罗斯总统普京
共同见证中材建设承建的俄罗斯长城项目汽车下线仪式

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Strengthen business construction and ensure high-quality service
Business performance reaches a new high, market development achieves good results
Insist on innovation-driven reform and empower development
Consolidate safety management on production and operation
Advocate energy saving, environmental friendly and build a green ecology
Care employees’ interests and create a harmonious enterprise jointly
Strengthen community communication and build a social relation jointly

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中材建设有限公司2019年社会责任报告

Social Responsibility Report of CBMI Construction Co., Ltd. in 2019

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2019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2019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。

为保证整个报告的真实性、可靠性，中材建设邀请中国企业联合会雇主工作部副主任韩斌先生进行了第三方评价并提出完善建议。

欲在线阅读《中材建设2019年度社会责任报告》电子版本，请访问中材建设网站http：//www.cbmi.com.cn.

《中材建设2019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.

This report reflects the true record of continuous improvement made by CBMI Construction Co., Ltd. (hereinafter referred to as "CBMI") in performing social responsibility in 2019. 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 2019. 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 participate 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.

In order to ensure the authenticity and reliability of the whole report, Sinoma invited Mr. Han Bin, deputy director of employer Work Department of China Enterprise Federation, to conduct a third-party evaluation and put forward suggestions for improvement.

To read the electronic edition of Social Responsibility Report of CBMI in 2019 online, please visit the website of CBMI http://www.cbmi.com.cn.

The Social Responsibility Report of CBMI in 2019 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、总经理　童来苟

Tong Laigou, Executive Director and General Manager 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 considers the ten principles of Global Compact as an inseparable part in the enterprise strategy and business, and undertakes in the whole enterprise that it will convey these principles to managers of various levels and all employees, so as to ensure that these principles are performed widely.

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。

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，不断加强社会责任管理，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。

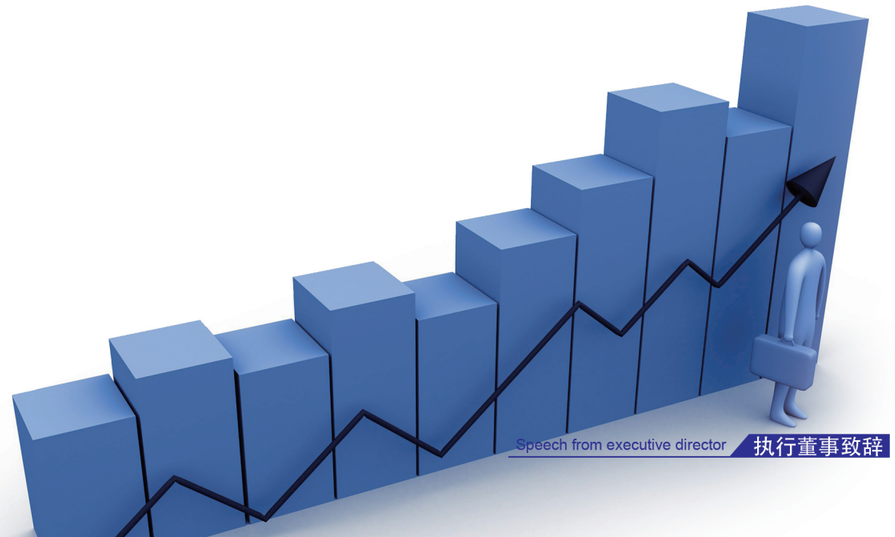
中材建设秉承“创新、绩效、和谐、责任”的核心价值观，善用资源，以诚信的理念、务实的作风、高效的管理，竭诚为客户服务。

CBMI actively practices the ten principles advocated by United Nations "Global Compact" in the fields of human right, labor, environment and anti-corruption, concerns influences on the stakeholders, performs the corresponding social responsibility and promotes the sustainable development of enterprise, economy, environment and society continuously.

CBMI undertakes publicly that it will comply with the continuous improvement concept of "Global Compact", continue to improve the conditions like non-discrimination employment, child labor eliminating, non-forced labor and local labor right protecting.; protect the occupational health and personal safety of all workers, guarantee their labor income, care their career development; promote and use new technology, save energy, reduce emission, protect the surrounding environment of work and life; make efforts to construct an equal and fair culture and promote the progress of anti-corruption work.

CBMI comprehensively carries out and implements the national development strategy of "Go Globally" and "the Belt and Road" Initiative, continuously strengthens management of social responsibility, guarantees employees' health, construction safety, improves environmental governance, makes great efforts to construct an environment-friendly enterprise and enterprise of harmonious labor relation, actively devotes to public welfare cause, continuously promotes responsible and sustainable overseas operation, works together with various stakeholders and jointly realizes the balanced development of economic benefit, social responsibility and environmental protection.

CBMI upholds core values of "innovation, performance, harmony, and responsibility", makes good use of resources, and serves customers wholeheartedly with integrity, pragmatic style, and efficient management.



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60年的历史，注册于中国河北省唐山市，是国家高新技术企业，公司总部设在北京经济技术开发区。

中材建设具有对外经营权、进出口权及国家工程总承包一级资质，全面贯彻落实国家“走出去”发展战略和“一带一路”倡议，遵循中国建材集团战略、文化、方针、管理原则，以前瞻的战略思维和全球化的事业，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，为中国水泥技术占领国际市场发挥了积极作用。

中材建设已通过IS09001质量管理体系认证、IS014001环境管理体系认证和OHSAS18001职业健康安全管理体系认证。企业信用度连续保持AAA级。

Affiliated to Sinoma International Engineering Co., Ltd. under China National Building Material Group, CBMI is registered in Tangshan city, Hebei province, with a history of 60 years, and it is a national high-tech enterprise, headquartered in Beijing Economic and Technological Development Zone.

With the foreign operation right, the import and export right and the first-class qualification of general contracting of national projects, CBMI comprehensively implements the "Go Globally" strategy and the “Belt and Road” Initiative and follows the strategy, culture, policy, and management principle of China National Building Material Group. CBMI has created many industry firsts and established a good brand image and market influence with forward-looking strategic thinking and globalization, playing a positive role for Chinese cement technology to occupy the international market.

CBMI has passed IS09001 quality management system certification, IS014001 environmental management system certification and OHSAS18001 occupational health and safety management system certification, with enterprise credit standing maintained at Class AAA continuously.

业务领域
Business fields

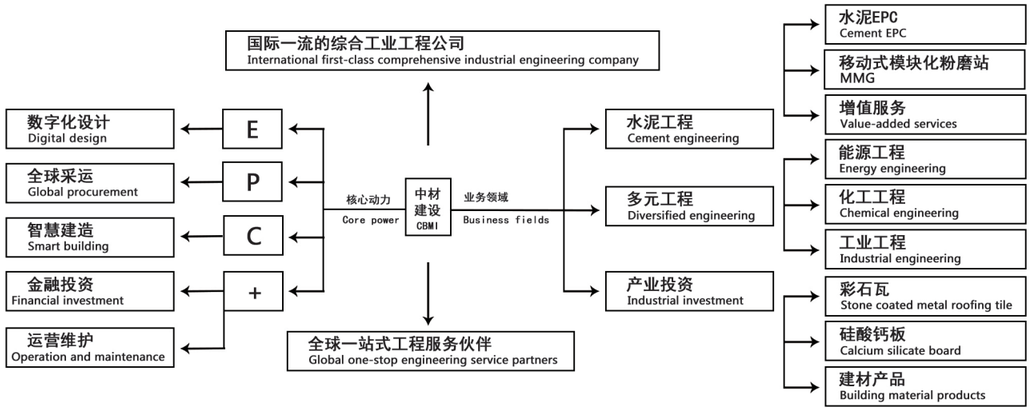
主营业务
Main businesses

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、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益的尝试，开发和推广了节能、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, diversified and industrialized development strategies, has made beneficial 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

目前中材建设业务主要集中在海外，遍布欧亚非美，客户资源主要集中在拉法基豪瑞、西迈克斯、海德堡、老城堡等高端市场，具有良好的品牌和信誉。

在中国水泥工业建设史上，中材建设承建了全球最大的包括多条万吨线水泥厂项目和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，创造了多项第一。

中材建设先后承建了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水泥熟料4000吨以上的水泥生产线项目，累计在全球建设水泥生产线近200条。

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

At present, Sinoma construction business mainly focuses on overseas, all over Europe, Asia, Africa and the United States, and its customer resources are mainly concentrated in Lafarge, ximax, Heidelberg, old castle and other high-end markets, with a good brand and reputation.

In the construction history of cement industry of China, CBMI has undertaken the global largest cement factory project with multiple 10,000t production lines and the first complete set of introduced technology production line in China, the first independently developed dry-process rotary kiln production line, the first Sino-foreign joint venture production line, the first "turnkey" project of international general contracting mode, and has exported complete set of equipment of cement production line to European countries, and has created the first in many projects.

CBMI has successively undertaken most of the key projects of cement production line in cement industry of China, including majority of foreign-invested projects and cement production line projects with scale of daily output of cement clinker above 4000t, and has constructed nearly 200 cement production lines accumulatively around the world.

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

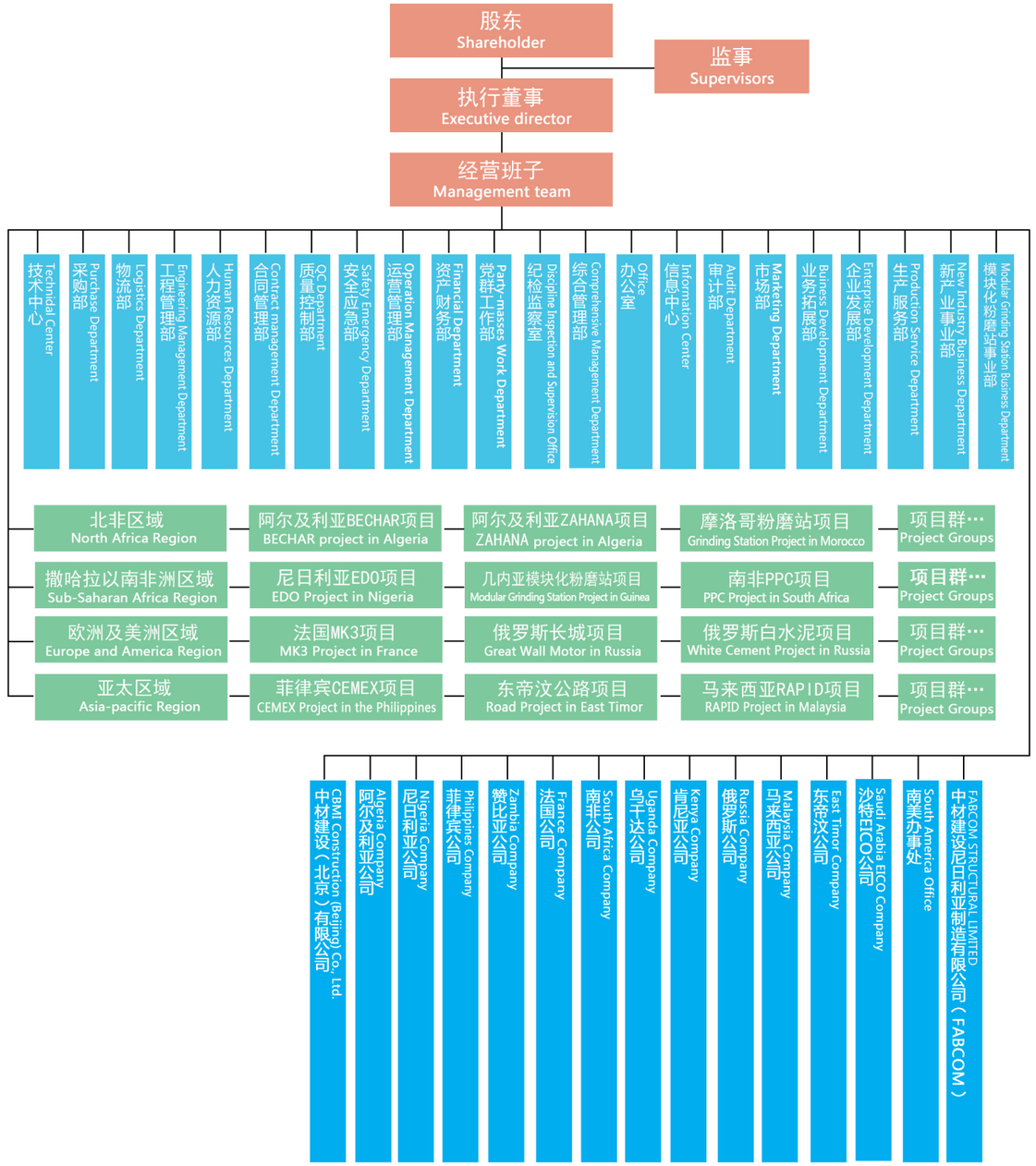
中材建设是按照《中华人民共和国公司法》组建的有限责任公司，依照《中材建设有限公司章程》设立执行董事、监事和经营班子。公司下设企业战略发展委员会、安全生产委员会、招标管理委员会、技术委员会、风险管理与内部控制领导小组、全面预算管理领导小组、保密等专业委员会，管控企业经营风险，监督企业廉政经营。

公司每年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 Construction Co., Ltd. The Company has professional committees under it, such as Enterprise Strategic Development Committee, Safety Production Committee, Bidding Management Committee, Technical Committee, 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 integrity operation of the enterprise.

The Company holds a General Manager office meeting regularly or irregularly on an annual basis and carries out work according to Articles of Association for CBMI Construction 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



- •多米尼加项目
- •厄瓜多尔 GU3 项目
- •法国波尔多项目
- •法国 MK3 项目
- •匈牙利项目
- •西班牙马拉加项目
- •摩洛哥 FES 项目
- •摩洛哥 SETTA 项目
- •摩洛哥 SSS13&14 项目
- •赞比亚项目
- •南非 PPC 项目
- •坦桑尼亚 TPCC CM/TCCL–TK2 MBEY 项目
- •尼日利亚 矿山运营 /EDO SOKOTO/Unicem 项目
- •尼日利亚 EWE01 项目
- •尼日利亚 Sokoto 生产运营
- •肯尼亚项目
- • 沙特 SPCC/RCC/SCC/CCC/UCIC/UACC 项目
- •阿赛拜疆项目
- •保加利亚 Devnya 项目
- •俄罗斯长城汽车项目
- •俄罗斯 FER 项目
- •俄罗斯哈弗汽车外网工程
- •俄罗斯白水泥项目
- •马来西亚 RAPID 项目
- •马来西亚怡宝污水处理场项目
- •东帝汶教堂项目
- •东帝汶公路项目
- •阿尔及利亚 Djelfa 项目
- •阿尔及利亚油脂制取项目
- •阿尔及利亚 BC 项目
- •阿尔及利亚 BECHAR 项目
- •阿尔及利亚 ZAHANA 项目
- •塔牌蕉岭项目（二期）
- •印度 ACL 项目
- •江西万年青项目

● 起始地

业务分布图
Business distribution diagram

中材建设承接实施的建设项目主要分布在欧洲、中东、非洲、南美洲、东南亚等地区的西班牙、法国、意大利、俄罗斯、匈牙利、阿尔巴尼亚、乌克兰、摩尔多瓦、塞浦路斯、阿塞拜疆、保加利亚、叙利亚、沙特阿拉伯、突尼斯、摩洛哥、毛里塔尼亚、赞比亚、南非、尼日利亚、乌干达、贝宁、阿尔及利亚、加纳、几内亚、多米尼加、厄瓜多尔、马来西亚、布基纳法索、印度尼西亚、肯尼亚、喀麦隆、东帝汶、菲律宾、印度等国家和地区。

The construction projects undertaken and implemented by CBMI are mainly distributed in Europe, Middle East, Africa, South America, Southeastern Asia, such as Spain, France, Italy, Russia, Hungary, Albania, Ukraine, Moldova, Cyprus, Azerbaijan, Bulgaria, Syria, Saudi Arabia, Tunis, Morocco, Mauritania, Zambia, South Africa, Nigeria, Uganda, Benin, Algeria, Ghana, Guinea, Dominica, Ecuador, Malaysia, Burkina Faso, Indonesia, Kenya, Cameroon, East Timor, the Philippines, India and other countries and regions.

中国建材 | sinoma 中材建设有限公司 CBMI Construction Co., Ltd.

2019年新启动项目：（5个）
尼日利亚SOKOTO三线项目、马来西亚怡保污水处理厂项目、印度ACL项目、南非100万吨/年铂金矿项目、江西德安万年青项目

Newly launched projects in 2019 (5):
Sokoto third line project in Nigeria, Yibao sewage treatment plant project in Malaysia, ACL project in India, 1 million tons / year platinum gold mine project in South Africa and Wannian project in Jiangxi Province

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	中国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	股东会 Shareholders' meeting
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 Procurement subcontracting		
供应商三 Supplier III	国外项目所在地雇佣劳工 Foreign project-based employees		
供应商四 Supplier IV	工程分包 Engineering Subcontract		

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	政策法律相关 Relevant policies and laws	会议及约访 Conference and visits
	唐山市丰润区国家税务局 Tangshan Fengrun District Office, State Administration of Taxation	税收征管 Tax collection and management	
	唐山市丰润区地方税务局 Tangshan Fengrun District Local Taxation Bureau	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 banksFunds	资金存取、信贷、保函业务等 Access, credit, and guarantee, etc.	
	丰润区住房公积金管理中心 Fengrun District Housing Accumulation Fund Management Center	职工住房公积金管理 Management of employees' housing accumulation fund	
	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	
	唐山市国家税务局进出口税务分局 Import and Export Taxation Branch of Tangshan City Office, 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 No. Name Position of CBMI	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	中国建筑材料联合会 China Building Materials Federation	会员 Member
3	中国企业联合会 China Enterprise Directors Association	会员 Member
4	中国建筑业协会 China Construction Industry Association	会员 Member
5	中国施工企业管理协会 China Association of Construction Enterprise Management	理事单位 Council Members
6	中国对外承包工程商会 China International Contractors Association	理事单位 Council Members
7	中国建材工程建设协会 China National Building Materials Construction Association	副会长单位 Vice Chairman
8	中国水泥协会 China Cement Association	常务理事单位 Executive Director
9	中国会计学会建材分会 Building Materials Branch under Accounting Society of China	成员 Member

2019年度所获荣誉
Honors in 2019

序 号 No.	授予单位 Granting Organization	荣誉名称 Honors
1	中国建筑材料企业管理协会 China Association of Construction Enterprise Management	2018-2019年度全国建材企业文化建设经典案例——《以党建文化为引领，推动新时代企业中心工作持续发展》 2018-2019 National Construction Enterprise Culture Construction Classic Case-Following Party Building Culture, and Promoting Sustainable Development of Enterprise Center Work in the New Era
2	中国施工企业管理协会 China Association of Construction Enterprise Management	入选庆祝中华人民共和国成立70周年“经典工程”——LAFARGER都江堰项目 "Classic Project" to mark the 70th anniversary of the founding of the People's Republic of China——LAFARGER Dujiangyan Project
3	中国施工企业管理协会 China Association of Construction Enterprise Management	2018-2019年度国家优质工程奖（境外）——阿尔及利亚BISKRA 5000TPD水泥生产线总承包项目 2018-2019 National Excellent Project Award (Overseas)——BISKRA 5000TPD cement production line general contracting project in Algeria
4	中国施工企业管理协会 China Association of Construction Enterprise Management	2018-2019年度国家优质工程奖（境外）——尼日利亚SOKOTO 3300TPD水泥生产线总承包项目 2018-2019 National Excellent Project Award (Overseas)——SOKOTO 3300TPD cement production line general contracting project in Nigeria
5	中国施工企业管理协会 China Association of Construction Enterprise Management	2018-2019年度国家优质工程奖（境外）——中国建材赞比亚工业园项目 2018-2019 National Excellent Project Award (Overseas)——China Building Materials Zambia Industrial Park Project
6	中国建材工程建设协会 China National Building Materials Construction Association	建材行业优秀工程总承包项目二等奖——尼日利亚SOKOTO项目 2nd prize of excellent general contracting project of building materials——SOKOTO project in Nigeria
7	中国建材工程建设协会 China National Building Materials Construction Association	建材行业优秀工程总承包项目一等奖——中国建材赞比亚工业园项目 1st prize of excellent general contracting project of building materials——China Building Materials Zambia Industrial Park Project
8	中国企业管理研究会、中国财政科学研究院、创新世界周刊、国企管理编委会 Chinese Institute of Business Administration, Chinese Academy of Fiscal Sciences, Innovation World Weekly, State-owned Enterprise Management Editorial Board	2019全国国企管理创新成果一等奖——中材建设以全球竞争力为基础的国际市场属地化经营模式 1st prize of 2019 National State-owned Enterprise Management Innovation Achievement -CBMI's international market localized business model based on global competitiveness
9	河北省科学技术厅、河北省财政厅 国家税务总局河北省税务局 Hebei Provincial Department of Science and Technology、The Financial Department of Hebei Province Hebei Provincial Tax Service, State Taxation Administration	2019年度国家高新技术企业 2019 National High-tech Enterprise
10	中国施工企业管理协会 China Association of Construction Enterprise Management	工程建设诚信典型企业 Typical enterprise of engineering construction integrity

理念战略
Concept strategy

企业战略及理念
Enterprise strategy and concept

作为全球工程建设的服务商，中材建设始终以诚信的理念、务实的作风和科学的管理，持续创新、热忱服务，努力建设精品工程，实现业主投资价值最大化。

中材建设坚持“做优、做大、做强”发展思路，在水泥工程业务、多元化工程、产业投资发展和生产运营等业务领域携手并进，着力构建协同发展的市场经营格局。工程服务业务推进“属地化和适度多元化”，以工程承包为主导业务，大力推进相关多元发展，以科技创新和管理创新为手段，努力把企业建设成为国际一流的综合性工业工程公司，为中国建材集团“打造具有全球竞争力的世界一流材料产业投资集团”做出贡献。

2018年，中材建设以“创新、绩效、和谐、责任”核心价值为引领，持续开展整合优化，着力推进“国际化、多元化、产业化”转型，积极抓好两个市场——国外市场和国内市场，两轮驱动——主业和多元业务，两个定位——基本建设和生产服务，形成高质量发展新态势。

As a service provider of project construction globally, CBMI always engages in continuous innovation and provides dedicated services with integrity concept, practical style and scientific management, and make efforts to construct excellent projects and maximize investment value of employers.

CBMI adheres to the development concept of "better, bigger and stronger", and attaches equal importance to the business areas of cement engineering business, diversified engineering, industrial investment development and production operations, and strives to build a market operation pattern of coordinated development. CBMI promotes "localization and appropriate diversification" in project service industry, makes great efforts to promote relevant diversified development with project contracting as the leading business, make efforts to build the enterprise into an international first-class comprehensive industrial engineering company by means of scientific innovation and management innovation and contribute to presenting China National Building Material Group as "a world-class material industry investment group with global competitiveness".

In 2019, CBMI followed the core values of "innovation, performance, harmony and responsibility", continued to conduct integration and optimization, made great efforts to promote internationalized, diversified and industrialized development strategy, actively grasped two markets (domestic market and foreign market), two rounds of driving (main and diversified business) and two positioning (basic construction and production service), and made efforts to realize the new round of high-quality development of the Company.

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 ides

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
We are committed to building a "moderate scale, first-class efficiency, successful career, superior treatmentRespected international first class industrial engineering company

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 the three principles of “contributing to the local economy, cooperating with local enterprises, and getting along with the local people”. In 2005, it joined the United Nations Global Compact to earnestly fulfill its social responsibilities and “tell Chinese stories” with practical actions. Based on the project situation, CBMI vigorously promotes green energy-saving and environment protection technologies such as the use of alternative fuels in cement kilns; actively participates in local public welfare undertakings, building roads and village parks around the project site; supports local education, builds local schools, and helps local employees in need; actively promotes the "use of local labor" and provides a large number 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

2019年，中材建设承担了国企改革“双百行动”中“加强党的领导、党的建设”专项试点工作，共形成七个制度文件，两个操作手册，进一步明晰了公司治理结构，细化党管干部内容、完善党建考核办法、建立容错纠错机制，构建廉洁风险防控体系，规划项目党建标准化，形成了一整套行之有效的制度，规范了工作流程。

Institutional construction

In 2019, CBMI undertook the special pilot of "Strengthening Party Leadership and Building" in the "Double Hundred Campaign" of state-owned enterprise reform, and formed seven system documents and two operation manuals, which further clarified the corporate governance structure. We will optimize the content of Party management cadres, improve Party building assessment methods, establish a fault-tolerant and correcting mechanism, build an integrity risk prevention and control system, standardize overseas project Party and form a set of effective systems to standardize work processes.

公司召开“双百行动”调研成果汇报暨制度框架梳理交流会

Figure and description: "Double Hundred Campaign" research results report & system framework streamlining exchange meeting

加强业务建设　确保优质服务

Strengthen business construction and ensure high-quality service

2019年，中材建设组织完成《设备物资采购控制程序》、《货物运输管理程序》、《散杂货租船运输招投标管理程序》《招标管理办法》4个程序文件的修订工作。组织完成《分（子）公司及项目部招标实施细则》《进场工艺设备管理制度》《质量管理制度》《施工方案编制审批管理制度》《采购物资检验试验规程》《测量和监控装置管理制度》《项目创优管理办法》7个项目级管理制度编制工作。

全年新增37个文件，修订97个文件，废止24个文件。

In 2019, CBMI organized and completed the revision of 4 procedure documents: Equipment and Material Purchase Control Procedure, Cargo Transportation Management Procedure, Bulk Cargo Charter Transportation Bidding & Tendering Management Procedure and Tendering Management Measures. CBMI organized the preparation of 7 project-level management systems including Branch (Subsidiary) & Project Department Bidding Implementation Rules, Incoming Process Equipment Management System, Quality Management System, Construction Plan Preparation & Approval Management System, Purchase Material Inspection and Test Regulations, Measurement and Monitoring Device Management System, and Project Innovation Management Measures.

In 2019, 37 new documents were added, 97 documents were revised, and 24 documents were abolished.

体系建设

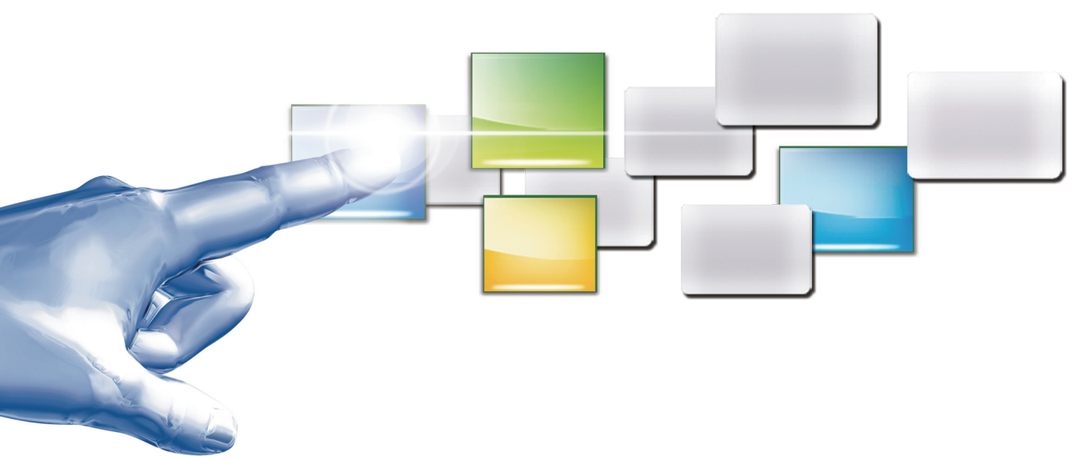
加强三体系建设，完成公司质量、环境、职业健康安全三体系复评及换证工作。组织三体系内部审核工作，完成俄罗斯长城项目、福建塔牌二期项目部三体系内部审核工作。协调完成俄罗斯长城项目、福建塔牌二期项目及公司职能部门三体系外审工作。

加强设备质量管理，健全质量管理体系，对供货商实行动态管理。加强项目工程质量控制，对设计施工质量进行评审，实现全过程质量监督。

System construction

CBMI strengthens the construction of the three systems and completes the re-evaluation and certificate replacement of the company's quality, environment, and occupation health and safety. CBMI completed internal audit of the three systems of the Russian Great Wall project and the second phase of the Fujian Tapai project. CBMI coordinated and completed the external audit of three systems of the Russian Great Wall project, the second phase of the Fujian Taipai project and the company's functional department.

CBMI strengthens equipment quality management, improve the quality management system, and implement dynamic management of suppliers. Besides, we strengthen project engineering quality control, review the design and construction quality, and realize the whole process quality supervision.



业务功能建设

Construction of business function

技术设计与研发

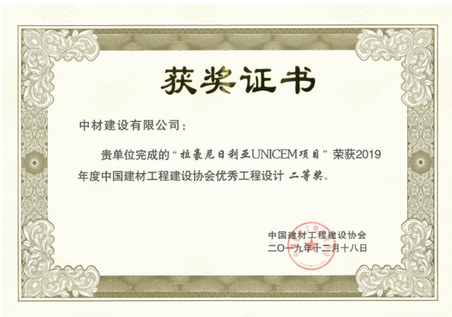
2019年，中材建设以突破主业关键技术和共性研发为重点，推动创新引领，打造具有独特竞争优势的工程服务。以数字化为设计手段，集中优势技术资源，创新投标工作。不断优化工程设计，完成16个项目施工设计，技术支持和技术交流同比增长40%。加快推进模块化粉磨站专项技术攻关，完善MMG产品系列。加大技术研发，9项产品通过高新验收，新增6个研发项目，获得6项专利授权。2019年，获得中国建材集团2019年技术革新奖5项，中国建材工程建设协会优秀工程设计奖2项，技术支撑和创新引领作用得到充分发挥。

Technical design and development

In 2019, CBMI focused on breakthroughs in key technologies of its main business and common research and development, and promoted technological innovation to create engineering services with unique competitiveness. We take digitalization as a design method, mobilize superior technical resources, and innovate bidding work. We continuously optimize the engineering design, complete the construction design of 16 projects, with technical support and technical exchanges increased by 40% year-on-year. We expedite special technical research on modular grinding stations and improve the MMG product series. We emphasized technological research and development so that 9 products passed high-tech acceptance, 6 new research and development projects were added, and 6 patents were authorized. In 2019, we won 5 technical innovation awards of China National Building Material Group and 2 outstanding engineering design awards of China National Building Materials Construction Association. We have given fully play to technical support and innovation leading role.

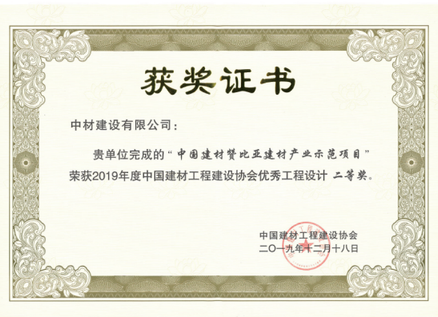
公司通过高新技术企业认定

Figure and description: Passed the identification of high-tech enterprises



公司设计的拉豪尼日利亚UNICEM项目获得优秀工程设计二等奖

2nd prize of excellent engineering design for the LH UNICEM project of Nigeria



公司设计并承建的中国建材赞比亚建材产业示范项目获得优秀工程设计二等奖

Figure and description: 2nd prize of excellent engineering design for theChina National Building Materials Zambia Building Material Demonstration Project

加强业务建设　确保优质服务

Strengthen business construction and ensure high-quality service

采购管理

2019年，中材建设签订采购合同 1323 个，设备采购额 9.42亿元，产品交付供货 6.45 万吨。

创新采购管理，推进国际化、本土化采购，通过集中打包采购，提高转口设备原产地采购比例，尝试网络采购等方式，有效降低采购成本。

规范采购供应商管理，与优秀供应商签订长期战略合作协议，加强合作与交流。

Purchase management

In 2019, CBMI signed 1,323 purchase contracts, equipment purchase amounted to 942 million yuan, and products delivered 64,500 tons.

CBMI innovates purchase management, promotes international and localized purchase, increases the proportion of localized purchase of transit equipment through centralized package purchase, and tries online purchase to effectively reduce cost.

CBMI standardizes purchase supplier management, signs long-term strategic cooperation agreements with excellent suppliers, and strengthens cooperation and exchanges.

物流管理

2019年，中材建设物流管理抓好成本管控，提质增效。以物流KPI指标为导向，加强成本控制意识，降低物流发运成本。引入动态可视化节点管理，创新物流管理手段。加强进出口业务信息化建设，建立进出口货物标准品名和 HS 编码库，优化报关业务管理流程，提升工作效率。

2019年，公司发运散货船18船，发运货物15.05万立方米/6.52万吨，实现出口额 2.04 亿美元。

Logistics management

In 2019, CBMI attaches importance to logistics cost management to improve quality and efficiency. Guided by logistics KPI index, we should enhance cost control awareness and reduce logistics delivery cost. We introduce dynamic visual milestone management and innovate logistics management methods. Besides, we should strengthen the informatization of import and export business, establish standard name and HS code database of import and export goods, optimize the management process of customs declaration and improve work efficiency.

In 2019, the company made 18 bulk cargo shipments, 150,500 cubic meters/65,200 tons of cargo, and achieved an export value of 204 million US dollars.

物流发运

Logistics delivery

生产运营

2019年，中材建设拓展“水泥工程+”增值服务业务，开展“水泥工程+备品备件+维修维保+技术改造+运营包产”等一站式业务链服务模式。以需求为导向，梳理海外水泥工厂运维方案，上门服务为客户提供系统解决方案。

全年生产运营业务完成销售收入 3.92 亿元，矿山开采 720 万吨，熟料 414 万吨，市场备件签约额 6320 万元。完成了阿尔及利亚BC项目，尼日利亚EDO 项目、喀麦隆粉磨站项目的调试工作。

Production operation

In 2019, CBMI expanded its "Cement project +" value-added services, and launched a one-stop business chain service model such as "Cement project + Spare Parts + Maintenance + Technical Transformation + Operation and Contracting Production". Guided by demand, we sort out the operation and maintenance plans of overseas cement plants, and provide on-site service system solutions for our customers.

In 2019, CBMI completed production and operation business revenue of 392 million yuan, 7.2 million tons of mines, 4.14 million tons of clinker, and contracted amount of spare parts of 63.2 million yuan, as well as commissioning of the BC project in Algeria, the EDO project in Nigeria, and the grinding station project in Cameroon.

尼日利亚EDO运营项目化验室

EDO operation project laboratory in Nigeria

项目设备调试

Project equipment commissioning

加强业务建设　确保优质服务

Strengthen business construction and ensure high-quality service

企业基础管理

Basic enterprise management

人力资源

中材建设牢固树立“德才兼备、以德为先、任人唯贤”选人用人理念，培养一批“听指挥、能打仗、打胜仗、能奉献、敢创新”的人才队伍，不断提升企业持续发展的人才保障能力。着力加强人才队伍建设，新招聘新员工 39 名，其中从事新业务及属地化经营10人。加强制度建设，修订了《员工休假管理办法》《远程差旅补助管理办法》《绩效考核管理办法》和《干部管理办法》，结合属地化发展需要，新编了《属地化公司和项目部相关制度》，进一步规范项目管理和属地化经营。做好企业年金和员工职称管理及劳动关系管理工作，全年完成1178人企业年金缴纳、转移和支取工作，完成职称申报102人，资质取证、复审237人。开展年度培训、新员工特训及专题培训班等，加强人才培养，搭建发展平台。

Human Resources

CBMI has firmly established the concept of "ability and integrity, integrity first, appointing people on merit", and cultivated a group of talents who "win battles by command, are dedicated, and dare to innovate", and continuously improved talent guarantee for the sustainable development of the company. CBMI made efforts to strengthen the construction of the talent team, and 39 new employees were recruited, of which 10 were engaged in new business and localized operations. CBMI strengthened system construction, and revised the Administrative Measures for Employee Vacations, Administrative Measures for Long-distance Travel Subsidies, Administrative Measures for Performance Appraisal and Administrative Measures for Cadres. In light of the needs of localized development, CBMI revised the Localized Companies and Project Departments System to further standardize project management and localized operations. We attached importance to management of enterprise annuities and employee titles and labor relations, completed the payment, transfer, and withdrawal of enterprise annuities for 1,178 people throughout the year, completed the declaration of professional titles for 102 people, and qualification review of 237 people. We also carried out annual training, special training for new employees and special training classes, etc., and strengthened talent training to build a development platform.

公司属地化经营团队高级研修班

Advanced training class for the company's localized management team

运营管理

2019年，中材建设建立以KPI管理为导向，全方位、多节点多维度的绩效考核体系，形成科学合理的成本目标制定及分解机制。建立正向激励机制，编制《中材建设项目部绩效考核管理办法》、《中材建设部门绩效考核及薪酬分配管理办法》，提高员工干事创业热情。引入分包结算二次稽查，全年完成了20个项目79家分包结算审核工作，有效降低工程分包成本。加大经济运行分析力度，反馈和共享经济运行数据，及时提出公司经济运营工作中存在的不足及改进措施。

Operation management

In 2019, CBMI established a KPI management-oriented, comprehensive, multi-node and multi-dimensional performance appraisal system, and formed a scientific and reasonable cost target setting and split mechanism. We put in place a positive incentive mechanism, compiled the CBMI Project Department Performance Appraisal Management Measures and CBMI Construction Department Performance Appraisal and Salary Distribution Management Measures to enhance employees' dedication in work. We introduced the secondary audit of subcontracting settlement, and completed the audit of 79 subcontracting settlements of 20 projects throughout the year, effectively cutting project subcontracting cost. We strengthened economic operation analysis, shared economic operation data, and promptly put forward the shortcomings and improvement measures concerning company's economic operation.

财务管理

2019年，中材建设加强资金管理，积极推进融资业务。为阿尔及利亚区域多个项目投保政治险，有效防范国际化经营风险。

加强银行授信、保函及信用证管理工作，全年获得商业银行综合授信 93 亿元，新开保函金额 2.39 亿元人民币，新开信用证金额 5.54 亿元人民币。加强税务管理，做好出口退税及高新技术企业减免税费工作。组织境外子（分）公司和项目经理部财税问题检查及整改工作，进一步提高境外机构财税管理水平，降低税务风险。

2019年度财务工作会议

2019 Financial Work Meeting

Financial management

In 2019, CBMI strengthened fund management , and actively promoted financing business。 CBMI actively promoted financing business to ease funding pressure. CBMI bought political insurance for multiple projects in Algeria, effectively preventing risks in international operations.

We strengthened the management of bank credit, guarantees and letters of credit, and obtained 9.3 billion yuan of comprehensive credits from commercial banks, 239 million yuan of new guarantees, and 554 million yuan of new letters of credit. We strengthened tax management and attached importance to export tax rebate and exemption for high-tech enterprises. We organized the inspection and rectification of fiscal and taxation issues of overseas subsidiaries (branches) and project management departments, further improved the level of fiscal and taxation management of overseas outlets to mitigate tax risks.

加强业务建设　确保优质服务

Strengthen business construction and ensure high-quality service

审计内控

2019年，中材建设严格执行内控审计管理办法，开展内控审计评价和风险防控工作，及时发现风险隐患和薄弱环节，提出有效解决措施和办法。完善公司内控涉及检查、预警制度，规范内控流程，准确识别风险。

全年完成公司6个在建项目周期效益审计、4个项目预算效益审计，客观监督和评价公司及所属单位的财务收支、经营活动、内部控制等事项，保证经营管理有效合规运行。

Audit and internal control

In 2019, CBMI strictly implemented internal control audit management measures, carried out internal control audit evaluation and risk prevention and control, timely identified hazards and vulnerabilities, and proposed effective solutions and methods. We improved the company's internal control inspection and early warning systems, standardized internal control procedure, and accurately identified risks.

In 2019, we completed the company's 6 ongoing project cycle benefit audits and 4 project budget benefit audits, objectively supervised and evaluated the company and its affiliates' financial revenues and expenditures, business activities, internal control and other matters, safeguarding effective and compliant operation of business management.

法律法务

2019年，中材建设全力做好法律法务工作，全年累计处理各类诉讼、仲裁案件10起，涉案金额1. 7亿。

Legal matters

In 2019, CBMI made every effort to well perform the work in legal affairs and handled 10 litigation and arbitration cases in total, involving an amount of 170 million yuan.

廉政建设

2019年，中材建设全面抓好制度建设，完善“三重一大”决策制度，建立健全议事决策机制，构建廉洁风险防控体系。编制《廉洁风险防控体系手册》《容错纠错机制实施办法》等，充分调动干部改革创新、干事创业的积极性。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，全面推广使用《廉洁协议书》。开展警示教育，签订《党风廉政建设责任书》《领导干部廉洁自律承诺书》等，压实廉洁责任。

公司与各项目部、职能部门签订廉洁责任书

Signing the Integrity Responsibility Letter with project department and functional department

Construction of incorruptible employment

In 2019, CBMI fully focused on system construction, strictly implemented the decision-making system of "decision on major issues, appointment and dismissal of important cadres, decision on investment of major projects and use of large amount of funds", established a sound decision-making mechanism, and built and integrity risk prevention and control system. The Integrity Risk Prevention and Control System Manual, Measures for the Implementation of Fault Tolerant and Correction Mechanisms", etc. have been compiled to fully mobilize the enthusiasm of cadres for reform and innovation and entrepreneurship. We resolutely corrected improper transactions that violate business ethics and market rules and affect fair competition in business management activities, and comprehensively promoted the use of the Integrity Agreement. We conducted warning education and Signed the Letter of Responsibility of Improving Party Conduct and Promoting Integrity and Leading Cadres Integrity and Self-discipline Commitment Letter, etc., to consolidate the integrity responsibility.

企业文化建设

中材建设积极践行集团“创新、绩效、和谐、责任”的核心价值观，把实现人的幸福、人的价值作为企业发展的重要目标和根本追求，努力追求“让员工与企业共同成长”。开展“匠心传承、工匠带徒”传帮带活动，践行工匠精神。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，加强人文关怀。开展“职场女性形象定位”三八讲座活动，书画、摄影大赛活动，健康运动知识讲座活动，消暑活动、举办羽毛球基础培训班等，愉悦了员工身心。组织篮球友谊赛，足球友谊赛、羽毛球友谊赛，乒乓球比赛等，切实丰富了业余生活，进一步凝聚了人心。

2019年，以庆祝中材建设成立六十周年为契机，回顾公司筚路蓝缕、艰苦奋斗的创业历程，总结公司开拓进取、敢为人先的战略思维，发扬公司不断学习、知成合一的企业文化，展望公司效益一流、受人尊重的美好未来，激发广发员工团结一心、努力奋斗的满腔热情，以热烈、隆重、简朴、节省的方式，开展多种形式的活动，引导广大员工为公司的可持续发展、高质量发展做出更大的贡献。

Enterprise culture construction

CBMI actively implements the Group's core values of "innovation, performance, harmony, and responsibility", regarding human happiness and value as an important goal and fundamental pursuit of corporate development, and striving to allow employees and the company to grow together. CBMI carries out the "apprentice" and craftsman practice. CBMI provides safe hospitalization insurance and supplementary medical insurance for all current employees and retired employees to strengthen humanistic care. We host "Positioning Female Image in the Workplace" March 8 lectures, calligraphy, painting, photography contests, health sports knowledge lectures, summer cooling campaigns, and basic badminton training classes, etc., to delight employees. We organized basketball friendship match, football friendship match, badminton friendship match, table tennis match, etc., effectively enriching after-work life and further enhancing cohesion.

In 2019, to celebrate the 60th anniversary of CBMI, we reviewed the company’s hard-working development history, summarized the company’s pioneering and enterprising strategic thinking, and carried forward the company’s corporate culture of continuous learning and integration of knowledge and practice. We look forward to the company’s bright future featuring first-rate interest and respect, and stimulated the enthusiasm of employees to unite and work hard, and carry out various activities in a warm, grand, simple, and economical way, encouraging employees to make greater contributions to the company’s sustainable and high-quality development.

2019年新老员工篮球赛
2019 New and Old Employees Basketball Game

羽毛球比赛
Badminton game

举办“不忘初心、牢记使命”主题教育培训班
Training class on the theme of "Staying True to Mission"

庆祝公司成立六十周年文艺汇演
Art performance celebrating the 60th anniversary of CBMI

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

2019年，面对国内外市场环境的变化以及国际水泥行业发展趋势，中材建设坚持“做优、做大、做强”发展思路，创新全员市场开拓理念，在水泥工程业务、多元化工程、产业投资发展和生产运营等业务领域携手并进，着力构建协同发展的市场经营格局。公司新签合同额再创新高，市场开拓逆势上扬，再创佳绩。

In 2019, in the face of the changes in the domestic and foreign market environment and the development trend of the international cement industry, CBMI adhered to the development concept of “better, bigger and stronger”, and innovated the concept of market development for all employees. CBMI attached equal importance to cement engineering business, diversified engineering, industrial investment development, production and operation and other business areas, and strived to build a market operation pattern of coordinated development. The company's newly signed contract value reached a new high. We achieved new success in market development in spite of market recession.

做优水泥工程业务

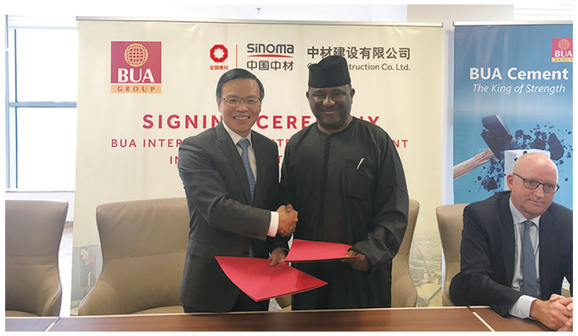
深化“水泥工程+”战略，在巩固阿尔及利亚、尼日利亚、赞比亚、喀麦隆、肯尼亚等非洲市场的同时，积极开拓东南亚、南美、中东欧等新兴市场，在马来西亚、塞内加尔、菲律宾、南非等国家陆续签约多个订单，完善市场布局。围绕重点区域和重点客户精耕细作，贴近客户需求，与 LH、BUA、CEMEX、BISKARA、CRH 等水泥集团开展全方位战略合作关系。2019年，成功签订了尼日利亚 BUA 集团SOKOTO 三线及一揽子增补和变更协议、LH 集团法国图卢兹 Matres水泥厂2500t/d 熟料线钢结构供货及安装合同、CRH集团菲律宾水泥厂新线扩建 EPC 项目，为水泥工程业务稳健发展奠定坚实的基础。

公司签订CRH伊利甘水泥厂6000TPD熟料新线项目

Signing the 6000TPD new line project of CRH Yiligan Cement PlantCement Plant

Optimize cement engineering business

CBMI deepened the "Cement project+" strategy. While consolidating African markets such as Algeria, Nigeria, Zambia, Cameroon and Kenya. CBMI actively explored emerging markets such as Southeast Asia, South America, Central and Eastern Europe, and signed contracts in Malaysia, Senegal, the Philippines, South Africa and other countries to improve the market layout. We focused on intensive cultivation of key areas and key customers. To cater to customer needs, we have developed all-round strategic partnerships with cement groups such as LH, BUA, CEMEX, BISKARA, and CRH. In 2019, CBMI successfully signed addition and modification agreement for the SOKOTO line III of Nigeria BUA Group, the supply and installation contract for the steel structure of the 2500t/d clinker line of the Matres Cement Plant of the LH Group in Toulouse, France, and the EPC project for the cement plant new line expansion of the CRH Group in Philippines, laying a solid foundation for the steady development of cement engineering business.



公司签订尼日利亚SOKOTO三线熟料线项目

Signing SOKOTO line III clinker project in Nigeria

做大多元化工程业务

加大新业务开拓力度，坚持国际国内市场两手抓，重点做好丰益国际、三星集团、沈阳铝镁院、乌干达 Simba 集团等主要客户关系维护，积极拓展在石油焦煅烧、石油化工、工业建筑等领域的项目合作。加强风险管控，协同整合公司国际工程管理和属地化市场资源，大力开拓市场。

2019年，签订了南非100吨/年铂金选矿厂建筑安装工程总承包项目、丰益国际南非食用油炼油厂建筑工程施工总承包项目，乌干达SIMBA炼油厂项目土建施工承包项目、马来西亚海军码头电房EPC总承包项目等10个合同，多元工程全年新签合同再创新高。

Expand diversified engineering business

We should strengthen the development of new business, adhere to the international and domestic markets, focus on the maintenance of main customer relationships such as Fengyi international, Samsung Group, Shenyang Aluminum Magnesium Institute and Uganda Simba group, and actively expand project cooperation in the fields of petroleum coke calcination, petrochemical industry and industrial construction. Strengthen risk management and control, coordinate and integrate the company's international engineering management and localized market resources, and vigorously expand the market.

In 2019, CBMI signed 10 contracts, including the general contracting for the construction and installation of the 1 million tons/year platinum concentrator project in South Africa, the general contracting t for the construction of the Wilmar International South Africa edible oil refinery, the civil construction contracting for the SIMBA oil refinery project in Uganda, and the EPC contract for Navy Terminal Power Station in Malaysia, and the newly signed contracts for diversified projects reached a record high throughout the year.

公司签订南非100万吨/年铂金选矿厂项目合同

Signing a contract for a 1 million tons/year platinum concentrator project in South Africa

经营业绩攀新高　市场开拓创佳绩

Increasing business performance, good market development results

做强产业投资业务

中材建设积极推进市场引领和资本投资双轮驱动业务结构转型，充分利用国际市场先行优势和具有良好成长空间市场进行适度的产业化发展，改善和优化业务结构。在尼日利亚，推动年产 500 万平方米硅酸钙板生产线项目建设，增资建设年产 200 万平方米金属彩石瓦项目。在阿尔及利亚，积极推进钢结构及非标设备加工的投资建设。积极稳妥布局，推进产业投资业务发展。

Strengthen industry investment business

CBMI actively promotes the transformation of the business structure driven by market leadership and capital investment and makes full use of the international market and the market with good growth space for appropriate industrialization development to improve and optimize the business structure. In Nigeria, CBMI promotes the construction of a calcium silicate board production line with an annual output of 5 million square meters, and increase capital to build a metal colored tile project with an annual output of 2 million square meters. In Algeria, we actively promote the investment and construction of steel structure and equipment processing. We actively and steadily deploy to promote the development of industrial investment business.

公司召开尼日利亚彩石金属瓦项目可行性研究报告评审会

Review meeting for the feasibility research report of the colored metal tile project in Nigeria

2019年中材建设传统业务签约项目

Signed contracts on traditional business in 2019

2019年，中材建设传统业务签订合同的项目10个.

In 2019, CBMI signed 10 contracts on traditional business.

序 号 No.	项目名称 Project name	合同模式 Model of contract	签约时间 Time of signing
1	BUA尼日利亚SOKOTO三线 6000TPD项目 BUA SOKOTO line III 6000TPD project in Nigeria	EPC	2019. 1
2	江西德安万年青水泥6600TPD机电安装工程 Jiangxi De' an Wannianqing Cement 6600TPD Mechanical and Electrical Installation Project	C	2019. 1
3	BUA尼日利亚SOKOTO备件协议 BUA SOKOTO Spare Parts Agreement in Nigeria	EP	2019. 1
4	BUA尼日利亚EDO备件协议 BUA EDO Spare Parts Agreement in Nigeria	EP	2019. 1
5	BUA尼日利亚SOKOTO三线 6000TPD项目变更 Change of BUA SOKOTO line III 6000TPD project in Nigeria	变更 Change	2019. 3
6	LH印度ACL MARWARMUNDA 9500TPD项目 LH ACL MARWARMUNDA 9500TPD project in India	EP	2019. 7
7	尼日利亚拉豪Ashaka5000tpd改造项目 LH Ashaka 5000tpd renovation project in Nigeria	EPC	2019. 8
8	Cemex菲律宾项目土建桩基增项 Cemex civil construction pile foundation increase project in Philippines	C	2019. 10
9	拉豪法国MAR03安装项目 LH MAR03 Installation project in France	C	2019. 12
10	BUA尼日利亚EDO一线熟料库网架合同 BUA EDO line I clinker warehouse grid rack contract in Nigeria	EPC	2019. 12

经营业绩攀新高　市场开拓创佳绩

Increasing business performance, good market development results

2019年中材建设多元业务签约项目

Signed contract on diversified business in 2019

2019年，中材建设多元业务全年签约合同9个

In 2019, CBMI signed 9 contracts on diversified business.

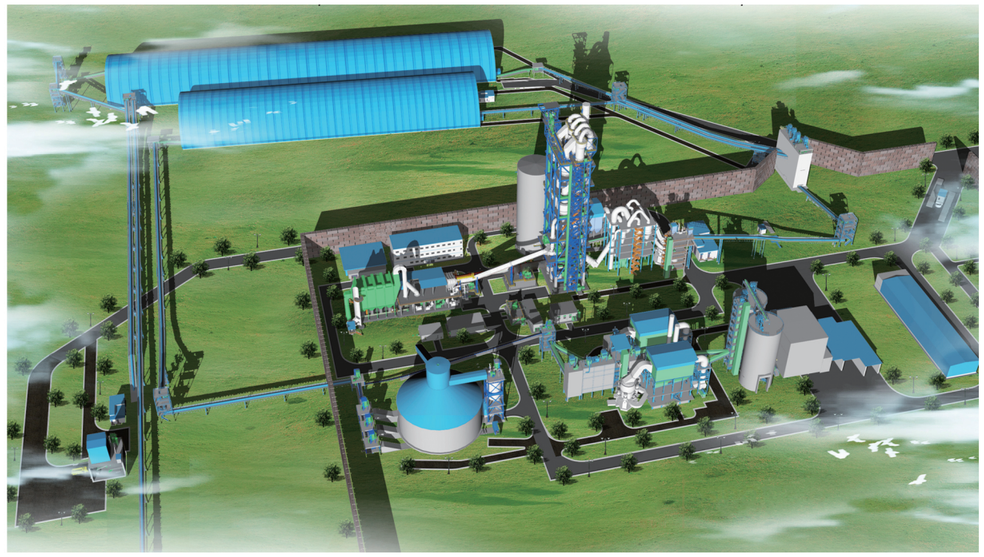
序 号 No.	项目名称 Project name	合同模式 Model of contract	签约时间 Time of signing
1	马来西亚怡宝污水处理厂二标段 Bid section II of Malaysia Cestbon Sewage Treatment Plant	C	2019. 1
2	乌干达simba炼油厂土建工程项目 Simba Refinery Civil Engineering Project in Uganda	C	2019. 4
3	俄罗斯饭店装修项目 Hotel Decoration project in Russia	C	2019. 4
4	俄罗斯NMGK下诺夫哥罗德食品生产综合体项目 NMGK Nizhny Novgorod Food Production Complex project in Russia	EP	2019. 7
5	阿尔及利亚LPO集团Mascara石膏厂土建施工合同 Civil construction contract for Mascara Gypsum Plant of LPO Group in Algeria	C	2019. 7
6	阿尔及利亚LPO集团Mascara石膏厂钢结构供货及安装合同 Supply and installation contract for Mascara Gypsum Plant of LPO Group in Algeria	PC	2019. 7
7	乌干达ELECTRO-MAXX公司电厂项目 ELECTRO-MAXX Company Power Plant project in Uganda	PC	2019. 7
8	南非100万吨/年铂金矿选矿厂现场工程合同 On-site engineering contract of 1 million tons/year platinum mine beneficiation plant in South Africa	C	2019. 9
9	马来西亚NAVIMAT补给港10MW电站房项目 NAVIMAT Supply Port 10MW Power Station project in Malaysia	EPC	2019. 10

坚持创新驱动　改革赋能发展

Insist on innovation-driven reform and empower development

2019年，中材建设扎实推进科技创新，加强信息化、数字化、智能化建设。通过创新平台建设，加大技术创新的孵化、转化，注重产学研结合。推进智能化应用，使工程建造与数字化融合，从“互联网+”到“AI+”，智能技术在工程技术施工建设中实现项目施工全过程管控。加强技术人员培养力度，在重点领域、关键技术打造领军人才和核心人才。

In 2019, CBMI steadily promoted technological innovation and strengthened informatization, digitalization, and intelligence. Through the construction of innovation platform, CBMI increased the incubation and transformation of technological innovation, and focused on the integration of production, education and research. We promoted the application of intelligence to integrate engineering construction and digitalization. From "Internet+" to "AI+", we provided intelligent technology-enabled control of the entire construction. We strengthened the training of technical personnel, and nurtured leading and core talents in key areas and key technologies.



工程技术施工建设中实现项目施工全过程管控

Realize the whole process control of project construction in engineering technology construction

2019金阀门评委选择奖

2019 Golden Valve Award Judges' Choice Mining

坚持创新驱动　改革赋能发展

Insist on innovation-driven reform and empower development

强化技术创新

Strengthen the technical innovation

技术研发与创新

与高等院校进行技术交流，开展广泛合作，攻克水泥立磨动力分析等技术难题，推动科技成果转化。加强信息化与企业管理相融合，完成 11 项自建系统的开发与应用，实现全公司范围的信息汇聚和整合分析。推进数字化建设，打通全生命周期壁垒。以 LH 印度项目为载体，实现数字化标书编制；以菲律宾项目为载体，实现高效可视化施工应用；以尼日利亚 SKT2 项目为载体，尝试智慧运营；以尼日利亚 SKT3 项目为载体，实现全过程数字化设计。

Technology R&D and Innovation

CBMI conducted technical exchanges with colleges and universities, overcome technical problems such as cement vertical mill dynamic analysis, and promoted the transformation of scientific and technological achievements. We strengthened the integration of informatization and enterprise management, completed the development and application of 11 self-built systems, and realized company-wide information aggregation and integrated analysis. We promoted digital construction and broke through the barriers of the whole life cycle. LH India project was used as the carrier to achieve digital tender preparation; the Philippines project was used to achieve efficient and visual construction applications; the Nigeria SKT2 project was used to try smart operations; the Nigeria SKT3 project was used to achieve digital design throughout the process.

2019年，获得中国建材集团技术革新奖5项。

In 2019, won 5 technical innovation awards from 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	生物质燃料热风炉技术应用 Biomass fuel hot hot gas generator technology application	技术开发类 Technology development	一等奖 First prize	中国建材集团 CNBM
2	水泥窑协同处置飞灰技术应用 Cement kiln fly ash co-processing technology	技术改造类 Technical transformation	二等奖 Second prize	中国建材集团 CNBM
3	熟料库顶钢结构吊装新工法的应用 Application of new construction method for lifting steel structure on top of clinker warehouse	技艺工法类 Technique	二等奖 Second prize	中国建材集团 CNBM
4	电缆廊道滑动定型模板申报书 Cableway sliding stereotyped template declaration form	技艺工法类 Technique	三等奖 Third prize	中国建材集团 CNBM
5	IEC61850在水泥工厂配电中的应用 Application of IEC61850 in power distribution of cement plant	技术开发类 Technology development	三等奖 Third prize	中国建材集团 CNBM

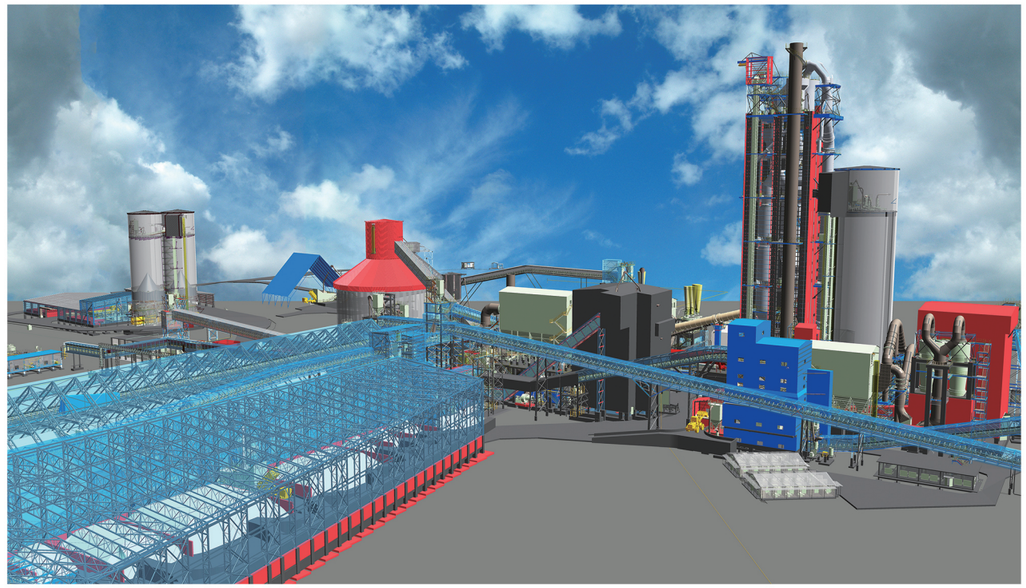
2019年，2个项目获得中国建材工程建设协会优秀工程设计奖。

In 2019, 2 projects won the Outstanding 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	中国建材赞比亚建材产业示范项目 China National Building Material Demonstration Project in Zambia	工程设计 Engineering	二等奖 Second prize	中国建材工程建设协会 CNBMCA
2	尼日利亚UNICEM项目 UNICEM project in Nigeria	工程设计 Engineering	二等奖 Second prize	中国建材工程建设协会 CNBMCA

中国建材集团技术革新技术开发类一等奖
1st Prize of China National Building Material Group Technology Innovation Technology Development

中国建材集团技术革新技艺工法类二等奖
2nd prize of China National Building Material Group Technology Innovation Technology Engineering



菲律宾CEMEX项目全厂数字化模型
Digital model of CEMEX project in Philippines

坚持创新驱动　改革赋能发展

Insist on innovation-driven reform and empower development

加大技术研发

Increase technology research and development

2019年，公司加大技术研发和关键核心技术的攻关支持力度，在上一年度10个项目持续开展的同时，新增6个研发项目，不断提升企业自主创新能力。

In 2019, CBMI spent more efforts on technical research and development and key core technology research and support. Besides the 10 projects in the previous year were continue to be carried out, 6 new research and development projects were added to continuously improve the company's independent innovation capabilities.

序 号 No.	项目名称 Project name	项目编号 Project No	备注 Remarks
1	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	2019RD01	新开项目 New project
2	低能耗旋风筒技术研究和应用 Research and Application of Low Energy Cyclone Technology	2019RD02	新开项目 New project
3	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	2019RD03	新开项目 New project
4	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	2019RD04	新开项目 New project
5	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	2019RD05	新开项目 New project
6	配合大模板技术的结构设计与应用 Structural design and application of large formwork technology	2019RD06	新开项目

2019年，获得6项实用新型专利。

In 2019, obtained 6 utility model patents.

序 号 No.	专利名称 Patent name	专利类型 Patent type
1	磨盘衬板 Grinding disc liner	实用新型 Special burner template
2	比例调节型卸料阀 Proportional adjustment type discharge valve	实用新型 Special burner template
3	适应俯仰机构的自牵引密封装置 Self-traction sealing device adapted to pitch mechanism	实用新型 Special burner template
4	料耙移动车架防倾翻装置 Anti-tilting device for material rake mobile frame	实用新型 Special burner template
5	燃烧器专用模板 Special burner template	实用新型 Special burner template
6	自动感应切换阀 Automatic sensing switching valve	实用新型 Special burner template

创新项目管理

Make innovations in project management

项目管理亮点

尼日利亚EDO 运营项目，践行“组织精健化、管理精细化、经营精益化”管理理念，加强制度建设，各项管理“有章可循”。减少管理层级，实行值班经理负责制，赋予值班经理“8小时厂长权利”，快速响应、处理问题，做到事不过夜。加强设备管理，执行设备三级巡检制度，有效提高设备运转率。不断优化工艺参数，加强过程控制，产品优质高产。EDO项目所生产出的水泥荣获尼日利亚水泥质量工程奖。

Highlights of project management

The Nigerian EDO operation project implements the management concept of "lean organization, refined management, and lean business", strengthens system construction, and ensures rules-based management. We reduce the management level, implement the duty manager responsibility system, and give the duty manager the "8-hour factory director right" to respond and deal with problems quickly. We enhance equipment management, implement a three-level inspection system for equipment, and effectively improve equipment online rate. We continuously optimize process parameters, strengthen process control, and produce high quality and high yield products. The cement produced by the EDO project won the Nigeria Cement Quality Engineering Award.

尼日利亚EDO项目全景

Panorama of EDO project in Nigeria

坚持创新驱动　改革赋能发展

Insist on innovation-driven reform and empower development

施工工法创新

中材建设承建的阿尔及利亚BC项目，创新熟料库顶钢结构吊装工法，采用地面组对与空中吊装相结合，工作地面组对时间仅为15天，空中吊装为2天，整体缩短工期将近20天，高空坠落风险降低了60%，有效提高了施工效率，各种辅助措施及材料投入少，取得良好经济效益。

Innovation of construction method

The Algerian BC project innovated the hoisting method of the clinker silo roof steel structure, combined ground pairing and aerial hoisting. The ground pairing took only 15 days while the aerial hoisting time is 2 days. The overall construction period is shortened by nearly 20 days, and the risk of falling has been reduced by 60%. It effectively improved construction efficiency, various auxiliary measures and materials input were small, and economic benefits considerable.

阿尔及利亚BC项目熟料库顶钢结构吊装
Hoisting method of the clinker silo roof steel structure of BC project in Algeria

阿尔及利亚BC项目全景
Panorama of BC project in Algeria

中材建设承建的阿尔及利亚BECHAR项目，采用电缆廊道滑动定形模板施工技术，人工成本降低了55% ，材料成本节省56%，避免了传统工艺中加固和拆除模板较繁琐的施工过程，极大提高了施工进度，缩短了施工周期，混凝土外观良好，达到设计要求。

The BECHAR project in Algeria adopted the cableway sliding formwork construction technology, which reduced labor costs by 55% and material costs by 56%, avoided the cumbersome construction process of reinforcing and dismantling formwork in traditional techniques, and greatly shortened construction schedule. Apart from the good concrete appearance, the design requirements were met.

阿尔及利亚BECHAR项目电缆廊道内外侧定型模板安装
Installation of stereotyped formwork inside and outside cableway of BECHAR project in Algeria

阿尔及利亚BECHAR项目电缆廊道内外侧定型模板安装
Panorama of BECHAR project in Algeria

确保服务质量

Ensure the service quality

项目履约增强

中材建设历经20余年国际化发展，遍布全球近50个国家100余条EPC项目业绩，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，为高质量发展添能蓄势。

Enhanced project performance

After more than 20 years of international development, CBMI has achieved more than 100 EPC project performances in nearly 50 countries around the world. It has formed a distinctive EPC project management system to facilitate the high-quality development of the company by taking KPI indicators and gross margin management as the main line, project performance as the center, and customer demand as the guideline.

阿尔及利亚ZAHANA项目全景
Panorama of ZAHANA project in Algeria

喀麦隆YAO项目
YAO project in Cameroon

2019年，中材建设全年在建项目中材建设全年在建项目33个，其中国外28个，国内5个，取得 PAC证书4个，分别是尼日利亚 EDO 二线、 阿尔及利亚 BC 项目、喀麦隆 YAO 项目、南非 PPC 项目；取得 FAC 证书 项目 2 个，分别是肯尼亚 NAI 粉磨站、乌干达 TOR 粉磨站；其中，阿尔及利亚 BISKRA5000TPD 水泥生产线总承包项目获评 2018 年度国家优质工程奖，中国建材赞比亚工业园项目和尼日利亚 SOKOTO 3300TPD 水泥生产线总承包项目同时荣获 2019 年度国家优质工程奖，良好的项目履约为公司深耕属地市场、深化重点客户合作和塑造国际品牌奠定了坚实的基础。

In 2019, CBMI has 33 projects under construction, of which 28 are overseas, 5 are domestic. There are 4 projects have obtained PAC certificate: the EDO project line 2 in Nigeria, the BC project in Algeria, the YAO project in Cameroon, and the PPC project in South Africa; and 2 projects acquired FAC certificates: NAI Grinding Station in Kenya and TOR Grinding Station in Uganda. Among them, the Algeria BISKRA5000TPD cement production line general contracting project won the 2018 National Quality Engineering Award, the CNBM Zambia Industrial Park project and the Nigeria SOKOTO 3300TPD cement production line general contracting project won the 2019 National Quality Engineering Award. CBMI' s good project performance has laid a solid foundation for the company to deepen its localized market, enhance cooperation with key customers, and shape an international brand.

尼日利亚SOKOTO项目实景
Nigeria SOKOTO in project

南非PPC项目实景
PPC project in South Africa

夯实安全管理　护航生产经营

Consolidate safety management on production and operation

2019年，中材建设坚持“以人为本、坚守红线、追求零伤害”的安全观，夯实基础，细化责任，全面提升公司安全管理水平。全年，公司整体安全生产形势平稳，所有在建项目均未发生重伤及以上生产安全主体责任事故，继续保持了健康的安全生产绩效。

安全管理制度建设

2019年，中材建设编制了《安全用电管理制度》、《拆除作业安全管理制度》、《触电事故的预防及其应急预案》《动火作业管理制度》等34项项目部安全管理制度和《分（子）公司应急响应工作管理规定》《分（子）公司安全管理制度》等2项分（子）公司安全管理制度，进一步完善了公司安全管理制度体系。

安全标准化建设

各项目部深入开展安全标准化建设工作。规范项目创建标准，新启动项目落实安全“五项标准。设立标杆项目，充分发挥示范效应，以点带面，逐步扩大安全标准化建设覆盖面。开展“走出去”安全对标交流活动，总结学习先进的管理方法，不断提升安全管理水平。

In 2019, CBMI adhered to the safety concept of “people-oriented, adherence to the red line, and zero harm”, consolidated the foundation, refined responsibilities, and comprehensively improved the company’s safety management level. Throughout the year, the company enjoyed a steady overall safety production situation. No serious injury or above accidents occurred in all projects under construction, and the company continued to maintain healthy and safe production performance.

Construction of safety management system

In 2019, CBMI formulated 34 safety management systems for the project department, including the Electricity Safety Management System, Demolition Work Safety Management System, Electric Shock Accident Prevention and Emergency Plan and Fire Work Management System, as well as Emergency Response Management Regulations and Safety Management System for Branches (Subsidiaries) to further improve the company’s safety management system.

Safety standardization construction

Each project department carried out in-depth safety standardization construction. We standardize project management and implement the "five safety standards" for newly launched projects. We set up benchmark projects, give full play to the demonstration effect, and gradually expand the coverage of safety standardization. We carried out "going out" safety exchange activities, summarized and learned advanced management methods and continuously improved safety management.

标准化人车分流
Standardized people and vehicles diversion

项目急救演练
Project first aid drill

落实安全主体责任

与公司58个部门和单位、358名职能部门员工、9948名项目员工及分包商签订了安全生产责任书，100%覆盖安全责任网络，推动全员责任落实。

Implement safety main body responsibility

CBMI signed the Letter of safety production responsibility with 58 departments and institutes, 358 functional department employees, 9,948 project employees and subcontractors. We made sure all areas were safe and implemented all employees’ safety responsibilities.

强化全员安全培训

利用“魔学院”安全培训云平台，加强体验式安全教育培训，增强员工安全意识。持续推进安全标准化、常态化、系统化、信息化管理，建立海外适岗评估机制。在项目部广泛应用“体验式安全培训区”，开展安全基础培训和高空作业、起重吊装等专项培训。进一步完善职业健康安全管理体系，树立大安全管理理念，提升企业安全管理水平。

Strengthen safety training for all employees

CBMI used the "Magic Academy" security training cloud platform to strengthen experience safety education and training and enhance employee safety awareness. We continued to promote safety standardization, normalization, systemization, and information management, and establish an overseas job evaluation mechanism. We encouraged the use of "experienced safety training area" in the project department to carry out basic safety training and special training for works on height, lifting and hoisting. We further improved the occupational health and safety management system, established an overall safety management concept, and improved enterprise safety management.

2019年度安全标杆项目-菲律宾CEMEX项目
2019 Safety benchmark project-Philippines CEMEX Project

阿尔及利亚BC项目400万安全工时表彰大会
Figure and description: 4 million safe working hours commendation meeting for BC project in Algeria

推进智慧安全建设

以尼日利亚SOKOTO3线项目为试点，建立智慧安全工地。应用门禁系统实现人员管控、教育培训及安全交底与人员管理联动；通过手机端/PC　端流程操作，动态展示交底状况、许可证审批及危险源辨识；运用安全检查APP，将安全检查流程化，提高工作效率。

Promote intelligent safety construction

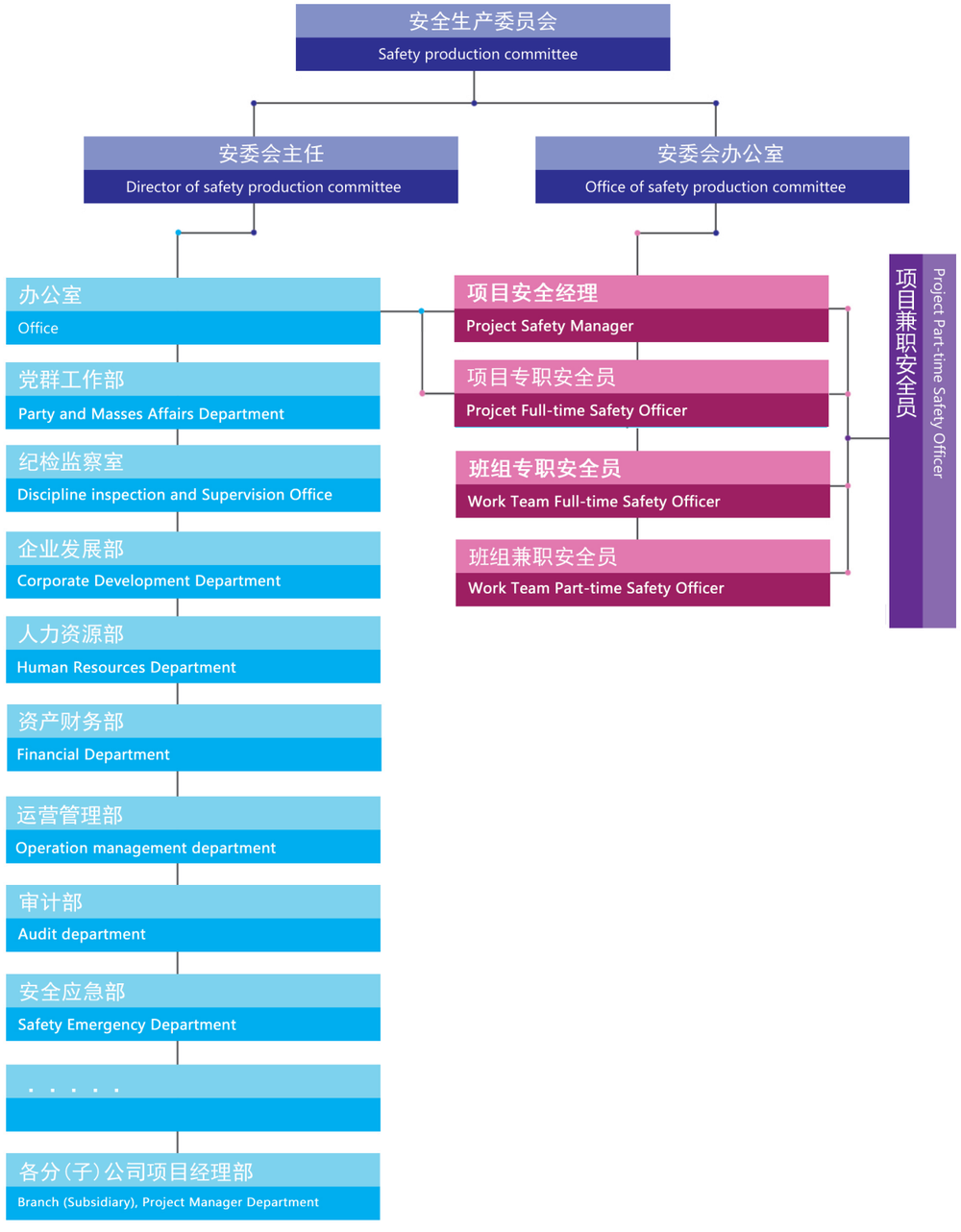
CBMI took the Nigeria SOKOTO Line III project as a pilot to establish an intelligent and safe workplace. The access control system is used to integrate personnel control, education and training; we used smartphone/PC terminal process operation for dynamic display of disclosure, license approval and hazard identification; we use the security inspection APP to streamline the safety inspection and improve work efficiency.

夯实安全管理　护航生产经营

Consolidate safety management on production and operation

中材建设安全生产管理组织机构图

Management Operation



安全生产实例

Examples of work safety

俄罗斯长城项目严格落实安全生产责任，牢固树立安全发展理念，夯实基础，强化现场管理，深化隐患排查治理，不断强化员工的安全意识，提升安全素养，改变“习惯性、经验性”作业的行为模式，促使员工做好每项安全工作，在思想上从“要我安全”向“我要安全”转变，提高员工安全意识。逐步完善职业健康安全管理体系，以法制化、标准化、规范化、系统化的方式推进安全生产。

The Great Wall project in Russia strictly implements the responsibility of safe production, firmly establishes the concept of safety development, lays a solid foundation, strengthens on-site management, deepens the investigation and management of hazards, continuously enhances the safety awareness of employees, improves safety literacy, and changes "habitual and empirical" behavior mode. The project urges employees to attaches importance to safety, changes their thinking from "I am asked to be safe" to "I want to be safe", and improve their safety awareness. The project gradually improves the occupational health and safety management system, and promotes safe production in a legal, standardized, and systematic way.

俄罗斯长城汽车项目部为当地小学生讲授汉语及安全知识

The project Department of Great Wall Motors in Russia teaches Chinese and safety knowledge to local primary school students

俄罗斯长城项目全景

Panorama of the Great Wall Project in Russia

夯实安全管理　护航生产经营

Consolidate safety management on production and operation

阿尔及利亚BEHCAR项目地处沙漠腹地，交通不便，项目部始终坚持将安全放在工程建设的第一位，严格执行标准规范以及各项安全生产管理制度，牢固树立“安全第一，预防为主”的安全理念，落实安全生产责任制，确保了项目部成立伊始所制定的“零事故、零伤亡、零职业病”安全生产目标的实现，顺利完成项目年度工程建设目标。

The BEHCAR project in Algeria is located in the hinterland of the desert with inconvenient transportation. The Project Department always insists on putting work safety the first priority, strictly implementing standards and regulations and various safety production management systems, and firmly kept the safety idea of "safety first, prevention foremost", securing the safety production goal of "zero accidents, zero injuries and zero occupational diseases" and smoothly completed the project's annual construction goals.

阿尔及利亚BEHCAR 项目200万工时表彰大会
2 Million Working Hours Commendation Conference for BEHCAR Project in Algeria

阿尔及利亚BEHCAR 项目安全示范体验区
Safety Demonstration and Experience Zone of BEHCAR Project in Algeria

倡导节能环保 共建绿色生态

Advocate energy saving, environmental friendly and build a green ecology

研发节能环保技术

Research and develop of energy conservation and environmental protection technology

模块化粉磨站

研发模块化粉磨站MMGplant，围绕“模块化、预组装”技术路线，以“投资少、见效快、运行可靠”的设计理念研发制成，它就像“拼插积木”一样简单灵活，有效解决了传统粉磨站投资过大、施工周期长、运营维护成本高、难以异地重建等问题。

Modular grinding station

Centering on the "modular, pre-assembled" technical route, the research and production of modular grinding station MMG plant is conducted with the design concept of "less investment, quick results, and reliable operation". It is as simple and flexible as "building blocks". It effectively solves the problems in traditional grinding stations, such as excessive investment, long construction period, high operation and maintenance costs, and difficulty in rebuilding in different places.

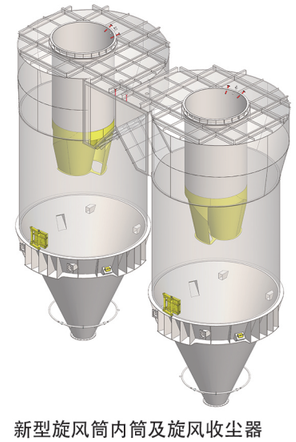
模块化粉磨站效果图
Modular grinding station renderings

新型旋风筒内筒及旋风收尘器

研发了基于导流装置的旋风筒内筒及旋风筒收尘器，有效减少紊流和短路气流，旋风筒收尘器能减少压损30%左右，提高旋风筒收尘器的分离效率，降低了系统电耗。

New inner cylinder of cyclone and cyclone dust collector

The cyclone inner cylinder and cyclone dust collector based on the flow guide device are developed to effectively reduce turbulence and short-circuit airflow. The cyclone dust collector can reduce the pressure loss by about 30%, improve the separation efficiency of the cyclone dust collector, and reduce system power consumption.



新型旋风筒内筒及旋风收尘器
New inner cylinder of cyclone and cyclone dust collector

倡导节能环保 共建绿色生态

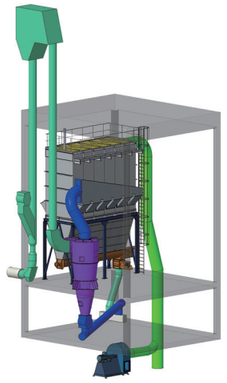
Advocate energy saving, environmental friendly and build a green ecology

替代燃料处理系统

研发了替代燃料的处理系统，实现城市生活垃圾中轻质废弃物的再利用，为水泥烧成系统提供合适的替代燃料，同时对水泥窑余热进行利用，降低热损失，有效节约能源。

Alternative fuel treatment system

An alternative fuel treatment system has been developed to reuse light wastes in municipal solid waste, provide suitable alternative fuels for the cement firing system, and utilize the waste heat of the cement kiln to reduce heat loss and effectively save energy.



替代燃料处理系统

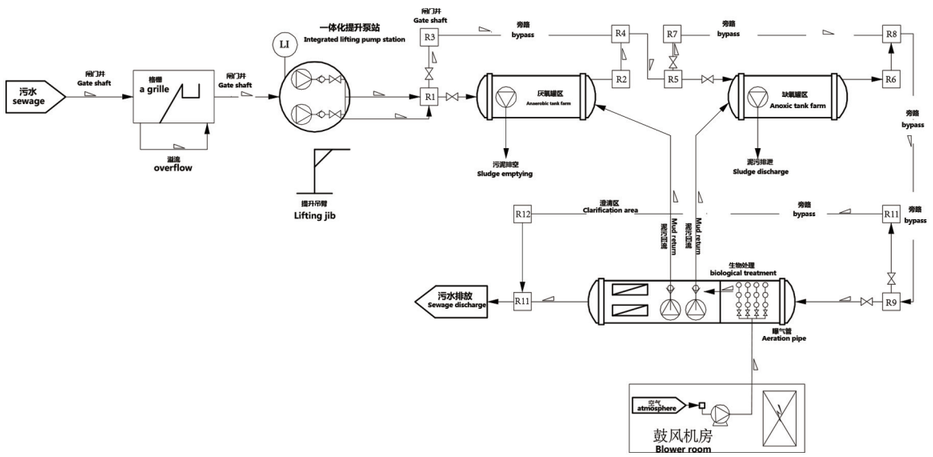
Alternative fuel treatment system

污水处理工艺

对水泥厂中小型生活污水处理站工艺进行创新，采用MBR工艺，消除了传统活性污泥法中污泥膨胀的问题，有效提高生化处理单元内活性污泥浓度，同时提高了生化处理单元的污水处理速度及出水水质和生物安全性。

Sewage treatment process

We innovate the process of small and medium-sized domestic sewage treatment stations in cement plants. The MBR process is adopted to eliminate the problem of sludge expansion in the traditional activated sludge method, effectively increasing the concentration of activated sludge in the biochemical treatment unit, and enhancing the sewage processing speed of the biochemical treatment unit and effluent quality and biological safety.



水泥厂中小型生活污水处理站工艺流程

Process flow of small and medium sized domestic sewage treatment station in cement plant

拓展节能环保业务

Expand energy conservation and environmental protection business

2019年，中材建设重点围绕阿尔及利亚、俄罗斯、尼日利亚、马来西亚等市场活跃度相对较高的国家，在化工、食品、油脂制取、能源等领域进行项目拓展，全年跟踪项目26个。在环保领域，新签订了马来西亚怡保污水处理厂项目，不断开展环保业务。

In 2019, Sinoma will focus on Algeria, Russia, Nigeria, Malaysia and other countries with relatively high market activity to expand projects in the fields of chemical industry, food, oil preparation, energy and other fields, with 26 tracking projects throughout the year. In the field of environmental protection, Yibao sewage treatment plant project in Malaysia has been newly signed to continuously carry out environmental protection business.

中材建设签订马来西亚海军码头电房 EPC 总承包项目

Signed the EPC project of the Malaysian Navy Terminal Power Station

倡导节能环保 共建绿色生态

Advocate energy saving, environmental friendly and build a green ecology

环保生产实例

Examples of environment friendly production

几内亚模块化粉磨站项目

项目年产能50万吨，采用中材建设自主研发的模块化粉磨站MMGplant，所有部件在国内进行制作和预组装后，运往项目所在地进行标准固件的无焊接组装。与传统粉磨站相比，有效缩短了56%的安装周期，减少了43%的工程占地面积，还节省了70%的施工人力投入。相比传统粉磨站需要18个月的投产周期，MMGplant只需2/3的时间，节约20%的投资成本。

模块化粉磨站不仅在安装方面非常便捷，它还还可以拆卸重组。只需要用集装箱就可以轻松打包所有设备，实现异地重新组装生产，可以适应各地不同的气候环境，让粉磨站移动起来重复使用。

Modular Grinding Station project in Guinea

The project has an annual output of 500,000 tons. It uses the modular grinding station MMG plant independently developed by CBMI. After all components are manufactured and pre-assembled in China, they are shipped to the workplace for non-welding assembly of standard firmware. Compared with the traditional grinding station, it effectively shortens the installation cycle by 56%, reduces the project area by 43%, and saves 70% of the construction manpower. Compared with the 18-month commissioning period of the traditional grinding station, MMG plant only needs 2/3 of the time and saves 20% of the investment cost.

In addition to convenient installation, the modular grinding station can also be disassembled and reorganized. All the equipment can be easily packaged only in a container, re-assembled and produced in different places by adapting to different climates in various places.

几内亚模块化粉磨站项目全景

Panorama of Modular Grinding Station project in Guinea

乌干达、肯尼亚项目

乌干达项目采用生物质燃料热风炉，与传统的以煤粉、重油、天然气等为燃料的热风炉技术相比，使用生物质替代燃料（咖啡壳、稻壳、棕榈壳等）的热风炉技术，具有降低碳排放，减少污染，节约资源等优势。

◆采用多流化床结构，可充分保证炉体受热均匀，提高炉衬的使用寿命。
◆流化床独立控制，供热负荷调节范围可达到总设计能力的15%～110%。
◆多种供风方式，保障生物然料充分燃烧。

生物质燃料热风炉上料系统

Biomass fuel hot gas generator feeding system

Projects in Uganda and Kenya

The Uganda project uses biomass-fueled hot blast furnaces. Compared with the traditional hot blast furnace technology that uses pulverized coal, heavy oil, natural gas, etc., it uses biomass alternative fuels (coffee husk, rice husk, palm husk, etc.), boasting of advantages of reducing carbon emissions, pollution and saving resources.

◆The multi-fluidized bed structure can fully ensure the uniform heating of the furnace body and improve the service life of the furnace lining.
◆The fluidized bed is independently controlled, and the heating load adjustment range can reach 15% to 110% of the total design capacity.
◆A variety of air supply methods are available to ensure full combustion of biological materials.

肯尼亚项目生物质燃料热风炉

Biomass fuel hot gas generator for Kenya project

关爱员工利益 共创和谐企业

Care employees' interests and create a harmonious enterprise jointly

2019年，中材建设坚持和谐发展，实现企业与社会，与环境与员工的和谐共融。尊重和保护员工权益，开展多项活动，努力构建和谐企业。

In 2019, CBMI adhered to harmonious development and realized the harmonious integration of the company and society, the environment and employees. We respect and protect the rights and interests of employees, carry out a number of activities, and strive to build a harmonious enterprise.

尊重保护员工权益

Respect and protect the rights and interests of employees

截止2019年底，中材建设拥有员工1144人，大专以上学历有790人，占公司总人数的69%；拥有科研人员197名，占公司总人数的17. 2%。2019年公司新增员工39人，其中校园招聘30名、社会招聘9名。
中材建设工会认真履行职能，坚持和完善以职代会为基本形式的民主制度，建立职工诉求表达机制，维护职工合法权益。职工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。

In 2019, CBMI will adhere to harmonious development and realize the harmonious integration of the company and society, the environment and employees. We respect and protect the rights and interests of employees, carry out a number of activities, and strive to build a harmonious enterprise.
CBMI Labor Union earnestly performs its functions, adheres to and improves the democratic system based on the workers' meeting, and establishes a mechanism for expressing employees' demands to safeguard the legitimate rights and interests of employees. The employees reviewed the company's work report through the workers' meeting and voted on matters related to their vital interests.

开展“善建公益”基金募捐活动

Develop "Shanjian Charity" fund donation activity

2019年，中材建设积极开展"善建公益"基金募捐活动，年度共711名员工参加了募捐。

In 2019, CBMI will adhere to harmonious development and realize the harmonious integration of the company and society, the environment and employees. We respect and protect the rights and interests of employees, carry out a number of activities, and strive to build a harmonious enterprise.

中材建设“善建公益基金”捐款仪式
"Shanjian Charity" fund donation ceremony

做好爱心互助活动

Do well in the "love and mutual assistance" activity

2019 年"爱心基金会"新入会会员30人，为符合救助条件的 2 名职工或家属发放爱心基金。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。

In 2019, 30 new members joined the "Charity Foundation" of CBMI, and distributed the charity funds to 2 employees or families satisfying the rescue conditions. This "warmhearted project" practically built a security line for broad employees to resist the risks, opened an protective umbrella for them, and built a warm and happy "homeland", to realize the long-term and normalized help and support work of the Company..

开展"送温暖"活动

Carry out "sending warmth" activity

2019年，中材建设对10名去世职工家属、生病住院职工进行慰问；为16名职工遗属发放生活救济金；为28名患大病、常年生病生活不能自理、工伤、生活困难等职工及老职工遗属发放困难补助。各项目分会因地制宜，采取节假日聚餐、露天烧烤、啤酒晚餐、制作中国传统美食、给员工过生日等各种方式关心职工生活。俄罗斯项目针对当地天气寒冷，除配备常用药外，还对职工外出就医开通了绿色通道，配备了专门的翻译和车辆。尼日利亚EDO 项目和SOKOTO 项目针对当地蚊虫传播疟疾的恶略环境，配备了先进疟疾监测设备，使患病职工及时确诊，及时治疗。阿尔及利亚杰勒法项目通过慰问当地优秀外籍员工和家属、看望伤病的外籍员工子女等，使外籍员工感受到公司的关怀和温暖，增强了归属感。

In 2019, CBMI offered condolences to the 10 deceased members of different employee' s families and sick hospitalized employees; provided living allowances to the families of 16 deceased employees; and provided subsidy for 28 employees and old employees who were seriously ill, who were unable to take care of themselves, work-related injuries, and living in difficulties. Each project adopts various methods such as holiday gatherings, open-air barbecues, beer dinners, making traditional Chinese food, and celebrating employees' birthdays to care employee life. In response to the local cold weather, the Russian project, in addition to being equipped with common medicines, also opened a green channel for employees to go out for medical treatment, and specialized translators and vehicles were available. The Nigerian EDO project and SOKOTO project are equipped with advanced malaria monitoring equipment to address the hostile environment of local mosquito-transmitted malaria, so that sick employees can be diagnosed and treated in time. The Algerian Jelfa project made the foreign employees feel the care and warmth of the company by visiting excellent local foreign employees and their families, and the children of injured foreign employees, etc.

健全职工互助保障体系

Improve the employee mutual assistance security system

2019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。

In 2019, 30 new members joined the "Charity Foundation" of CBMI, and distributed the charity funds to 2 employees or families satisfying the rescue conditions. This "warmhearted project" practically built a security line for broad employees to resist the risks, opened an protective umbrella for them, and built a warm and happy "homeland", to realize the long-term and normalized help and support work of the Company..

关爱员工利益　共创和谐企业

Care employees' interests and create a harmonious enterprise jointly

丰富员工业余生活

Enrich employees' afterwork life

中材建设开展了多种多样活动，丰富了职工的业余文化生活，满足公司职工日益增长的精神文化需要。赞比亚、肯尼亚、马来西亚等项目部组织职工开展了旅游、参观遗址、爬山等活动，使职工了解了当地的风土人情，开阔了视野。乌干达项目参加了首届"复兴杯"旅乌华侨华人龙舟赛，增强与当地华侨华人的沟通联系。尼日利亚EDO项目组织职工参加了业主举办的文体活动，尼日利亚公司参加了中国尼日利亚总商会举办的在尼企业足球友谊赛，增进了在尼企业相互了解，扩大了公司在尼日利亚区域的社会影响力。

CBMI has carried out a variety of activities to enrich the cultural life of employees and meet the growing spiritual and cultural needs of the employees. The project department in Zambia, Kenya, Malaysia and other projects organized employees to travel, visit historical site and climb mountain, enabling employees to understand the local customs and conditions and broaden their horizons. The Uganda project participated in the first "Fuxing Cup" Dragon Boat Race among overseas Chinese in Uganda to strengthen communication with local overseas Chinese. The EDO project in Nigeria organized employees to participate in cultural and sports activities organized by the owner. The Nigerian company participated in a friendship football match organized by the China-Nigeria Chamber of Commerce, which enhanced mutual understanding between Nigerian companies and expanded the company's social influence in Nigeria.

尼日利亚公司组织参加尼日利亚第五届中资企业足球赛

Nigerian company in the fifth Chinese-funded enterprises football match in Nigeria

加强社区交流　共建社会关系

Improve local living environment

改善当地生活环境

Improve local living environment

俄罗斯白水泥项目部修建了项目所在地村庄公园，并受邀参加俄罗斯巴什基尔共和国杨格力斯盖村中俄友谊公园剪彩仪式及植树节活动。友谊公园的修建不仅是白水泥项目部与当地人民友谊的见证，更是中俄两国人民友好的象征，当地政府为专门项目部颁发了感谢信，感谢项目部为村庄建设作出的贡献。

The Russian White Cement Project Department built the village park and was invited to participate in the ribbon-cutting ceremony of the Sino-Russian Friendship Park in Yangglisky Village, Bashkir Republic, Russia and the Arbor Day activities. The construction of the Friendship Park is not only a testimony of the friendship between the White Cement Project Department and the local people, but also a symbol of the friendship between the Chinese and Russian people. The local government issued a letter of thanks to the project department to thank the project department for its contribution to the construction of the village.

俄罗斯白水泥项目部参加中俄友谊公园剪彩仪式及植树节活动

Ribbon-cutting ceremony of the Sino-Russian Friendship Park in Yangglisky Village, Bashkir Republic, Russia and the Arbor Day activities of the Russian White Cement Project

俄罗斯白水泥项目部所在地地政府颁发的感谢信

Letter of thanks issued by the local government

阿尔及利亚公司应中国驻阿使馆经商处及驻阿中资企业协会邀请，组织参加了中阿友谊园的植树活动，同时还参加了为当地社区修路、除草、打扫卫生等公益活动，通过这些活动，增强了中阿两国人民的沟通交流，巩固了双方友好关系。

At the invitation of the Economic and Commercial Office of the Chinese Embassy and the Association of Chinese Enterprises in Algeria, the Algerian company organized and participated in the tree-planting activities of the China-Algeria Friendship Park. At the same time, it also participated in public welfare activities such as road building, weeding, and cleaning for the local community. These activities strengthened the communication between the people of China and Algeria and consolidated the friendly relations.

阿尔及利亚公司参加中国驻阿使馆经商处及驻阿中资企业协会举办的植树活动

The Algerian company organized and participated in the tree-planting activities organized by the Economic and Commercial Office of the Chinese Embassy and the Association of Chinese Enterprises in Algeria

加强社区交流　共建社会关系

Improve local living environment

促进社区经济发展

Promote the economic development of the community

阿尔及利亚公司大量招聘当地技术人员和劳工，解决当地就业问题、促进当地经济发展。持续改进外籍员工的薪资福利制度，坚持薪酬设计的内部公平性、外部竞争性、激励性及可行性；为外籍员工的发展提供平台、创造机会，加强培训，协助员工进行职业生涯规划；邀请优秀员工到中国实地了解中国文化，参加工作会议建言献策，与中国员工一同接受表彰、感受荣誉。

Algerian company recruits a large number of local technical personnel and labor to solve local employment problems and promote local economic development. The company continuously improves the remuneration system for foreign employees, adheres to the internal fairness, external competitiveness, motivation and feasibility of the remuneration system; provides a platform for the development of foreign employees, creates opportunities, strengthens training, and assists employees in career planning. We invite outstanding employees to go to China to learn about Chinese culture, participate in work meetings and offer suggestions, and receive recognition and honor with Chinese employees.

阿尔及利亚公司定期为外籍员工体检

Algerian company regularly conducts physical examinations for foreign employees

2019年度优秀外籍员工

Excellent foreign employees of CBMI in 2019

针对尼日利亚本土彩石瓦技术水平低下、产品质量不高的现状，FABCOM工厂积极推进技术创新，并主动邀请当地政府的环保、工商等部门来检查，还向以严格著称的尼日利亚标准局（SON）提交了彩石瓦制作与技术标准，通过标准的实施，规范生产工艺，切实提高产品质量。中材建设FABCOM彩石瓦产品不仅满足了当地市场需求，提高了当地产品质量水平，促进了就业，极大改善了当地人居环境和生活质量。

In response to the low technical level of Nigeria′s local colored tiles and low product quality, the FABCOM factory actively promotes technological innovation and actively invites the local environmental protection, industry and commerce authority to conduct inspection. We submit the production and technical standards for colored tiles to the demanding Standards Organ of Nigeria (SON). We standardize production process and effectively improve product quality. The FABCOM colored tile products of CBMI not only meet the needs of the local market, but also enhance the quality of local products, promote employment, and greatly improve the local living environment and quality of life.

尼日利亚FABCOM员工与当地土王合影

Figure and description: Group photo of Nigerian FABCOM employees and local lord

增进社区文化交流

Promote community cultural exchange

菲律宾项目部开展了“庆圣诞，送温暖”活动。项目部特别邀请当地雇员、周边居民以及分包商进行圣诞聚餐，在送上了节日祝福的同时，还准备了暖心的节日小礼品。菲律宾项目参加了当地社区学龄儿童庆祝圣诞活动，并向小朋友们赠送了学习用品和体育用品，满足了小朋友们的圣诞愿望，增进两国文化的交流，在当地树立了良好的企业形象。

The Philippines Project Department launched the "Celebrating Christmas, Sending Warmth" activity. The project department specially invited local employees, surrounding residents and subcontractors to have a Christmas dinner. While sending holiday blessings, heart-warming holiday gifts were available. The Philippines project participated in the celebration of Christmas for school-age children in the local community, and presented school supplies and sporting goods to the children, which satisfied the children′s Christmas wishes, enhanced cultural exchanges between the two countries, and established a good corporate image in the local community.

菲律宾项目为当地居民送圣诞节礼物

The Philippines project sends Christmas gifts to local residents

菲律宾项目参加当地社区学龄儿童庆祝圣诞活动

The Philippines project participates in a Christmas celebration for school-age children in the local community

摩洛哥项目部到项目所在地的TAGONITE小学进行公益活动，为师生带去了崭新的校服、校舍门窗防护网和内外墙涂料。项目部重视履行社会责任，关注当地教育事业和小朋友的成长，为两国文化的融合贡献力量。

The Moroccan Project Department went to the TAGONITE Elementary School to carry out public welfare activities and brought brand-new school uniforms, door and window protection nets and interior and exterior wall coatings to the school faculty. The project department attaches great importance to fulfilling social responsibilities, pays attention to local education and the growth of children, and contributes to the integration of cultures between the two countries.

摩洛哥项目部援助项目所在地小学

The Moroccan Project Department′s assistance to the local primary school

探索发展
Explore development

探索发展
Explore development

绿色 智能 高质量发展道路
Green, intelligent, high-quality development

“抓创新就是抓发展，谋创新就是谋发展”。中材建设始终坚持创新驱动战略，在水泥工程、多元工程、产业投资三大业务方面取得了丰硕成果，建造了一大批优质工程。未来，中材建设将以绿色、智能为抓手，加大科技投入，推动国际化、本土化进程，促进公司高质量发展。

"Seek development through innovation." CBMI has always adhered to the innovation-driven strategy, and has achieved fruitful results in the three major businesses of cement engineering, diversified engineering and industrial investment, and has built a large number of high-quality projects. In the future, CBMI will use focus on green development and smart development, increase investment in technology, promote internationalization and localization, and the company's high-quality development.

高污染、高能耗行业的绿色发展
Green development of high pollution and energy-intensive industries

创新“水泥工程＋”经营模式，发展循环经济，延伸绿色产业链，引领传统水泥企业向绿色、低碳、环保、生态环境修复转型。“水泥工程＋”发展思维的内容不仅仅是“＋服务、＋运营、＋投资”，还应该包含“＋互联网、＋大数据”模式，同时还要坚持绿色发展，积极推进循环经济生态产业园项目建设、水泥窑协同处理城市垃圾、危废、污泥、污染土等资源综合利用，研发可替代燃料技术，节约能源，不断提高综合竞争力。

CBMI will innovate the "Cement Engineering +" business model, develop a circular economy, extend the green industrial chain, and lead traditional cement companies to transform into a green, low-carbon, environment friendly, and ecological environment restoration. "Cement Engineering+" business model is not only "+ service, + operation, + investment", but also includes the "+ Internet, + big data". At the same time, we must adhere to green development and actively promote the construction of the circular economy ecological industrial park. We should comprehensively utilize resources such as project construction and cement kilns co-processing of urban garbage, hazardous waste, sludge, and contaminated soil, and conduct research and development of alternative fuel technologies, energy conservation, and continuous improvement of comprehensive competitiveness.

法国MK3项目所在地政府人员&记者参观项目，
该项目燃料替代率达到87% 以上
Government personnel and reporters visit the French MK3 project, and the alternative fuel rate of the project is over 87%

水泥窑协同处置飞灰技术应用
Cement kiln fly ash co-processing technology

探索发展
Explore development

智能化打造世界水泥“梦工厂”
Intelligently build the world's cement "dream factory"

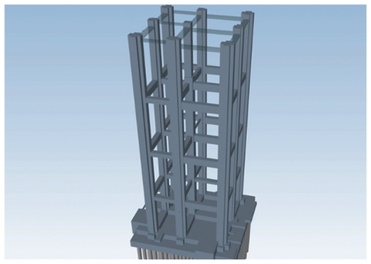
通过数字化模型、建造技术及软硬件结合，并与项目管理深度融合，提升劳务用工、物资以及施工环境管理环境，提升施工现场的安全作业、提升管理透明度、解决数据采集的真实性、唯一性和及时性问题，助力降本增效。

Through the combination of digital models, construction technology, software and hardware, and deep integration with project management, we should improve management environment of labor, materials, and construction, enhance workplace safe operation and management transparency, secure authenticity, uniqueness and timeliness of data collection, helping reduce cost and increasing efficiency.

无人机地形绘制
UAV terrain mapping

在“数字化+大数据”支撑下，施工人员借助各类智能工具、智能机械等实现科学有序的现场作业，依托遍布项目所有岗位产生的海量数据，实现整个施工可视化、施工过程调整、施工进度控制、施工各方可协同的智慧建造。

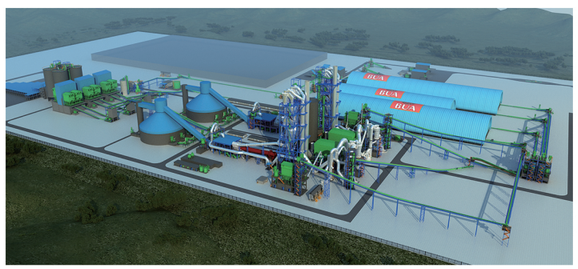
With the support of "digitalization + big data", construction personnel use various smart tools, smart machinery, etc. to achieve scientific and orderly field operations. Relying on the massive data generated by all positions in the project, construction personnel is able to make the entire construction visual, adjust construction process, control construction progress and intelligently coordinate all construction parties.



可视化施工
Visual construction

从完成数字化3D模型、项目实施计划、成本控制、资源配置、材料管理等工程建设系统的一系列数据链接，实现优化实施规划、预测实施风险、精益工程进度与成本；用数字化全过程驱动实现全生命周期管理。

From the completion of a series of data links to the construction system of digital 3D model, project implementation plan, cost control, resource allocation, material management, etc., we achieve optimized implementation planning, predict implementation risks, and lean project schedules and costs; use the entire digital process to drive the whole Life cycle management.



数字化设计
Digital design

属地化经营促进当地经济发展
Localized operation promotes local economic development

中材建设进行适应性的国际化组织优化变革，在有条件有市场的国家将项目公司就地转型开展属地化经营。紧跟市场、紧贴客户，紧盯项目，充分利用属地资源，将有效提升公司市场开拓能力、客户服务水平，项目效率效益、业务发展路径。属地化经营与当地资源、发展急需进行紧密对接，用长期扎根思想进行业务结构的长期规划。实施人力资源属地化，为所在国创造更多就业机会。优化资源配置，合理利用当地资源，推进资源“属地化”。与所在国深度交流融合，推进文化属地化。中材建设各个属地化公司秉持高标准、惠民生、促经济的目标，在未来，继续为推动共建“一带一路”高质量发展贡献力量。

CBMI has carried out adaptive international organization optimization and reform, and encouraged project companies to conduct localized operations in countries where conditions and markets are available. CBMI keeps close to the market, customers and projects, and makes full use of territorial resources to effectively improve the company's market development capabilities, customer service levels, project efficiency and effectiveness, and business development paths. We should keep localized management closely aligned with local resources and development, and carry out long-term planning of business structure with long-term rooted thinking. We will use more local employees to create more jobs for local community. We will optimize resource allocation, make rational use of local resources, and promote the "localization" of resources. We will conduct in-depth exchanges and integration with the local community to promote cultural localization. CBMI's localized companies uphold the goals of high standards, benefiting the people's livelihood, and promoting the economy, and will continue to contribute to the high-quality development of the "Belt and Road" Initiative in the future.

阿尔及利亚公司
CBMI Algeria Company

尼日利亚公司
CBMI Nigeria Company

俄罗斯公司
CBMI Russia Company

赞比亚公司
CBMI Zambia Company

乌干达公司
CBMI Uganda Company

南非公司
CBMI South Africa Company

东帝汶公司
CBMI East Timor Company

马来西亚公司
CBMI Malaysia Company

肯尼亚公司
CBMI Kenya Company

尼日利亚FABCOM工厂全景
Panorama of FABCOM factory of Nigeria

尼日利亚FABCOM工厂举办员工运动会
FABCOM factory's employee sports event of Nigeria

责任绩效
Responsibility performance

2019年度关键责任绩效
2019 Key Responsibility Performance

2019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 2019, 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.

2019年度关键责任绩效
Key responsibility performance in 2019

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 (100 million yuan) CBMI wholly-owned	40. 15
纳税总额（亿元） Total tax (100 million yuan)	1. 5
国有资产保值增值率（%） Value preservation and appreciation rate of State-owned assets (%)	115. 79
净资产收益率（%） Return on equity (%)	26. 22
经济增加值（亿元） Economic value added (100 million yuan)	3. 74
毛利率（%） Gross profit rate (%)	22. 11
人均创利税（万元） Per capita profit and tax (10 thousand yuan)	57. 85
全新新签合同额（亿元） Newly signed contract value (100 million yuan)	45. 27
完成出口额（亿美元） Completed export value (100 million dollars)	2. 74

产品责任
Product Responsibility

指标名称 Index	指标值 Index Value
2019年在建项目数量 Number of projects under construction in 2019	33
2019年完成项目数量 Number of projects completed in 2019	4
2019年开工项目数量 Number of projects started in 2019	5
2019年取得PAC证书数量 Number of PAC certificates obtained in 2019	4
业主综合满意度（%） Comprehensive satisfaction of owners (%)	93
业主分项满意度（%） Satisfaction of owner per item (%)	91
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	6
截至目前累计拥有专利（项） Accumulated patents (items) so far	47
技术研发主要成果（项） Main achievements of technology research and development (items)	9
增加并完善企业标准（项） Corporate standards added or improved (items)	4

2019年度关键责任绩效
Key responsibility performance in 2019

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（%） Compliance rate of hazardous workplaces after treatment of labor environment and labor conditions (%)	100
事故隐患整改完成率（%） Completion rate of potential accident rectification (%)	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
Employment Responsibility

指标名称 Index	指标值 Index Value
年末员工总数 Year-end total number of employees	1144
中层以上管理者中女性员工比例（%） Proportion of female employees among middle-level managers and above (%)	4
少数民族员工人数 Number of minority employees	33
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)	639
- 支付金额（万元） -Payment amount (10 thousand yuan)	108. 6
参保意外伤害险（人） Accidental injury insurance (persons)	639
- 支付金额（万元） -Payment amount (10 thousand yuan)	63. 9
年培训总投入（万元） Total annual training investment (10 thousand yuan)	152. 5
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 (%)	5

未来展望
Future outlook

经营发展
Business development

2020年，中材建设坚持稳中求进工作总基调，坚持新发展理念，坚持以供给侧结构性改革为主线，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。深入实施三精管理，确保经济业绩稳步增长；全力抓好属地化经营，确保国际化发展持续深化；夯实水泥工程主业，巩固并继续提升市场领先地位；推动以工业工程为主的有限多元发展，加快推进产业发展步伐；抓好数字化及智慧建造，强化创新驱动手段；着力风险防控，提升风险管控能力；坚持改革创新，特别是做好技术创新，持续培育企业新动能。推动企业高质量发展，增强企业的竞争力、创新力、控制力、影响力、抗风险能力。

In 2020, CBMI will adhere to the general principle of seeking progress while maintaining stability, uphold new development concept, focus on the supply-side structural reform, drive, empower and promote development through innovation, reform and internationalization. Apart from development through Party building, CBMI will conduct heighten management to ensure the steady growth of economic performance; fully grasp the localized operation to ensure the continuous deepening of international development; consolidate the main business of cement engineering, consolidate and continue to enhance the market leadership; promote the limited and diversified development of industrial engineering, speed up industrial development; focus on digitalization and smart construction, and strengthen innovation-driven means; focus on risk prevention and control, and enhance risk management and control capabilities; adhere to reform and innovation, especially technological innovation, and continue to empower corporate development. In addition, CBMI will promote high-quality development, and enhance its competitiveness, innovation, control, influence, and anti-risk capability.

管理提升
Management enhancement

2020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、坚持整合优化、坚持数字化”的管理原则，继续做好市场开拓，集中力量狠抓重点市场，重点客户和重点项目，挖掘潜力市场。强化项目执行，调动积极因素，狠抓项目进度。提升内部管理水平，加强风险管控，做好成本控制，着力推进在技术、管理、模式、机制等方面的优化创新，不断提升企业经营水平和盈利能力。

In 2020, CBMI will continue to uphold the management principle of “focusing on efficiency and benefit, specialization of main business, fine and lean development, cost-effectiveness, integration and optimization, and digitalization”, concentrate on development of key markets, key customers and key projects, and tap potential markets. CMBMI will strengthen project execution, mobilize positive factors, and pay close attention to project progress. We will improve internal management level, strengthen risk and cost management and control, focus on optimization and innovation in technology, management, mode, mechanism, etc., and continuously improve business operation and profitability.

企业社会责任建设
Construction of corporate social responsibility

2020年，中材建设将继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 2020, CBMI will continue to strengthen social responsibility construction, attach importance to localization, and make contributions to the local economy. CMBMI 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.

报告评价
Report evaluation

《中材建设有限公司2019年社会责任报告》第三方评价

作为联合国全球契约组织成员，中材建设有限公司一直以来将全球契约核心原则与企业战略和业务相融合，其编制的《2019年社会责任报告》，全面展示了公司积极践行全球契约十项原则，认真履行企业社会责任，在经济、环境和社会等领域可持续发展工作的各项成果。报告按照联合国全球契约组织年度进展报告指南等文件要求编写，充分展示了一家国际化企业积极遵循透明、公开原则，加强与利益相关方沟通的良好意愿。

中材建设有限公司在经营过程中，积极融入业务东道国当地社区，为地方经济社会发展做贡献，以实际行动展示中国企业的风采。通过将联合国全球契约组织倡导的“负责任的运营，在可持续发展中寻找机遇”理念与公司“创新、绩效、和谐、责任”核心价值观相结合，坚持“善用资源、服务建设”的发展理念，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，通过服务利益相关方实现自身的可持续发展。报告特别呈现了对利益相关方履行社会责任的行业特点，在项目开发和履行全过程关注当地发展进步、保护周边生态环境、关爱海外工程员工、关怀社会民生幸福。

《报告》从经济、产品、安全、环境、员工责任等多维度出发，介绍企业实践的同时，也充分披露了取得的关键绩效，为利益相关方了解企业可持续发展工作提供了有力保证。公司注重员职工权益保护，健全职工互助保障体系，不断提升员工的获得感和幸福感；强化安全管理，对标国内外领先企业，为职工提供有保障的生产环境；倡导节能环保，不断提高传统燃料替代料，努力降低碳排和能耗，减少污染，加强资源和能源的循环利用；重视技术创新引领发展，加强科技研发，优化工程实施过程设计，确保提供高质量服务的同时，加强企业履约能力；注重增进与企业所在社区之间的文化交流，改善当地生活环境，促进地区经济发展。

希望中材建设有限公司在未来的发展过程中，能继续通过创新驱动、深入国际化，以及在管理、模式、机制等方面的优化创新，不断提升企业的竞争力。同时，持续提升可持续发展信息披露能力，不断创新沟通方式，追踪全球可持续发展趋势热点，吸引更多认同企业发展理念利益相关方共同携手，为中国和全球的可持续发展做出更大的贡献。

韩斌

中国企业联合会雇主工作部副主任

Social responsibility report of Sinoma Construction Co., Ltd. in 2019

Third party evaluation

As a member of the United Nations Global Compact Organization, CBMI Construction Co., Ltd. has always integrated the core principles of the Global Compact with its corporate strategy and business, and the 2019 Social Responsibility Report prepared by the company comprehensively demonstrates company's achievements in actively implementing the ten principles of the Global Compact, conscientiously fulfilling enterprise social responsibilities as well as sustainable development works in economy, environmental, society and other fields. The report is prepared in accordance with the requirements of the guidelines for the annual progress report of the United Nations Global Compact Organization and other documents, fully demonstrating the good will of an international enterprise in following the principles of transparency and openness actively and strengthening communication with interested parties.

CBMI actively integrates into the local community of the host country for business, makes a contribution to the local economic and social development, and demonstrates the elegance of Chinese enterprises in practical actions. In conjunction with the concept of "responsible operation, seeking opportunities in sustainable development" advocated by the United Nations Global Compact Organization with the company's core value of "innovation, performance, harmony and responsibility", on the basis of adhering to the development philosophy of "making good use of resources and serving construction" and practicing the three principles of "making a contribution to the local economy, cooperating with local enterprises and living on friendly terms with local people", the company aims to achieve its own sustainable development by serving interested parties. In particular, the report presents the industry characteristics for interested parties to fulfill social responsibilities, paying attention to local development and progress, protecting surrounding ecological environment, caring for employees of overseas works, and showing solicitude for the well-being of the social people's livelihood in the whole process of project development and implementation.

The Report, from multiple dimensions, including economy, products, security, environment and employee responsibilities, introduces enterprise practices, while fully disclosing key performance that it has achieved, thereby providing strong assurance for interested parties to understand the sustainable development of the enterprise. CBMI lays emphasis on the protection of the rights and interests of employees, perfects the system of mutual assistance and security for employees, and constantly improves the sense of gain and happiness of employees; strengthens security management, benchmarks against leading enterprises at home and abroad, and provides secure production environment for employees; advocates energy conservation and environmental protection, constantly improves the substitute material of traditional fuel, strives to reduce carbon emission and energy consumption, reduces pollution, and strengthens the recycling of resources and energy; attaches importance to technological innovation leading development, strengthens scientific and technological research and development, optimizes the design of the implementation process of works, and strengthens the ability of enterprises for contract fulfillment while providing high-quality services; and lays emphasis on enhancing cultural exchanges between communities where enterprises are located, improves the local living environment and promotes regional economic development.

It is hoped that CBMI can continue to improve enterprise' s competitive strength in future development through innovation-driven development, intensive internationalization, and optimization and innovation in management, mode and system. Meanwhile, it will continue to improve the disclosure ability of sustainable development, innovate the communication method constantly, track the hot spot of the global sustainable development trend, attract more interested parties who acknowledge the development philosophy of enterprises to join hands, and make greater contributions to the sustainable development of China and the world.

Han Bin

Deputy Director of Employer Work Department of China Association of Enterprises

意见反馈表
Reader's Feedback Form

非常感谢您阅读《中材建设有限公司2019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 anppreciate for your reading of the CBMI SOCIAL RESPONSBILITY REPORT 2019. 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 below,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

请您在相应的“□”内打“√”：
Please tick in the approprate boxes.

1. 您对本报告的总体评价是：

1.Your overall evaluation of the report?

□很好　Great　□较好　Good　□一般　Moderate　□较差　Poor

2. 您认为本报告所披露信息的清晰、准确、完整性如何？

2.What do you think of the clearness, accuracy and integrity of the disclosure information?

□高　Great　□较高　Good　□一般　Moderate　□较低　Poor

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 If CSR Report

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