环保纸张

中国建材

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

2020
中材建设有限公司
社会责任报告

CBMI SOCIAL RESPONSIBILITY REPORT

THE GLOBAL COMPACT
WE SUPPORT

中国建材

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

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加强业务建设 确保优质服务 Social responsibility concept and promotion

强化市场开拓 确保稳健运行 Strengthen Market Development,Ensure Stable Operation

坚持创新驱动 改革赋能发展 Insist on innovation–driven reform and empower development

夯实安全管理 抓好疫情防控 Pay close attention to epidemic prevention and control

倡导节能环保 共建绿色生态 Advocate energy saving, environmental friendly and build a green ecology

关爱员工利益 共创和谐企业 Care employees’ interests and create a harmonious enterprise jointly

加强社区交流 共建社会关系 Strengthen community communication and build a social relation jointly

◆探索发展 Explore development

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

智能化打造世界水泥“梦工厂” I ntelligent construction of world cement "dream factory"

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

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

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管理提升 Management improvement

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中材建设有限公司2020年社会责任报告

Social Responsibility Report of CBMI Construction Co., Ltd. in 2020

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2020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2020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2020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2020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 2020. 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 2020. This report is issued once every year with the organization of functional departments, branches, subsidiaries and Project Management Department of CBMI Construction Co., Ltd.

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

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

In order to ensure that the whole report is authentic and reliable, CBMI invites Mr. Han Bin, Deputy Director of Employer Work Department of China Enterprise Confederation the third party evaluation and to provide suggestions for improvement.

To read the electronic edition of Social Responsibility Report of CBMI in 2020 online, please visit the website of CBMI http://www.cbmi.com.cn.

The Social Responsibility Report of CBMI in 2020 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 Construction deems the Ten Principles of the UN Global Compact as an indispensable part of corporate strategy and business, and undertakes to pass down such principles to the management and all staff, ensuring that such principles are widely performed.

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

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

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

中材建设始终秉承“创新、绩效、和谐、责任”的核心价值观，善用资源，以诚信的理念、务实的作风、高效的管理，竭诚为客户服务。同时持续在经营活动中注入多元的社会责任要求，为建设成“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而不懈奋斗。

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

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

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

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

企业简介
About the Company

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

企业概况
Company Profiles

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

中材建设是一家集咨询、设计、供货、施工、运维于一体的工业工程总承包公司，是国家高新技术企业，具有国家工程总承包一级资质、对外经营权和进出口权。公司全面贯彻落实国家“走出去”发展战略和“一带一路”倡议，在全球50多个国家承建了200多个水泥生产线项目，是承建世界大型跨国水泥集团项目最多的中国工程企业，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。

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

CBMI Construction is an industrial engineering EPC company engaged in counseling, design, supply, construction, operation and maintenance, a new high-tech enterprise, and has national engineering EPC level I qualification, foreign business right, import and export right. The company fully implements the national "reach out" development strategy and "Belt and Road" Initiative, and undertakes over 200 cement protection lines in over 50 countries. CBMI Construction is a Chinese engineering enterprise that has undertaken most projects of the world's big cement multinational corporations. The company has forged a good brand image and market influence in the international cement engineering field and plays an active role for Chinese cement technology to seize the international market.

业务领域
Business fields

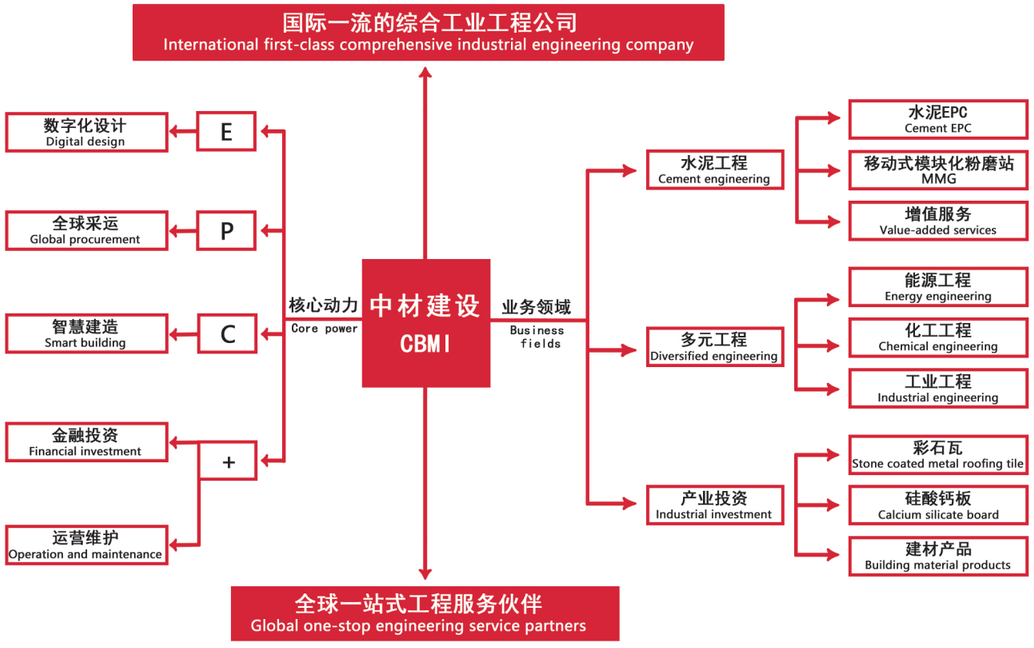
主营业务
Main businesses

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

近年来，中材建设积极探索和推进国际化、数字化、属地化、多元化、产业化发展战略，在建筑、冶金、电力、市政、环保和主营业务延伸等方面进行了有益的尝试，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，以及余热发电、脱硫脱硝技术等。

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

In recent years, CBMI has actively explored and promoted the internationalized, digitized, localized, diversified and industrialized development strategies, has made 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90%以上业务集中在海外，遍布欧亚非美，客户资源主要集中在拉豪、西迈克斯、海德堡、老城堡等高端跨国水泥集团，在国内外具有良好的品牌优势和美誉度。

中材建设累计水泥生产线签约合同总额超600亿元，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4000吨以上水泥熟料的生产线。

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

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

At present, over 90% of CBMI Construction’s businesses are abroad and distributed in Europe, Asia, Africa and America. Its customers are mainly focused in high-end cement multinational corporations in LafargeHolcim, CEMEX, Heidelberg and CRH. The company has good domestic and overseas brand advantage and recognition.

CBMI’s signed contract amount of accumulated cement production line was over RMB 60 billion. CBMI has undertaken most important projects of cement production lines in China, including the majority of foreign-funded project and the cement clinker production line with daily output over 4,000 tons.

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

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

治理结构
Governance structure

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

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

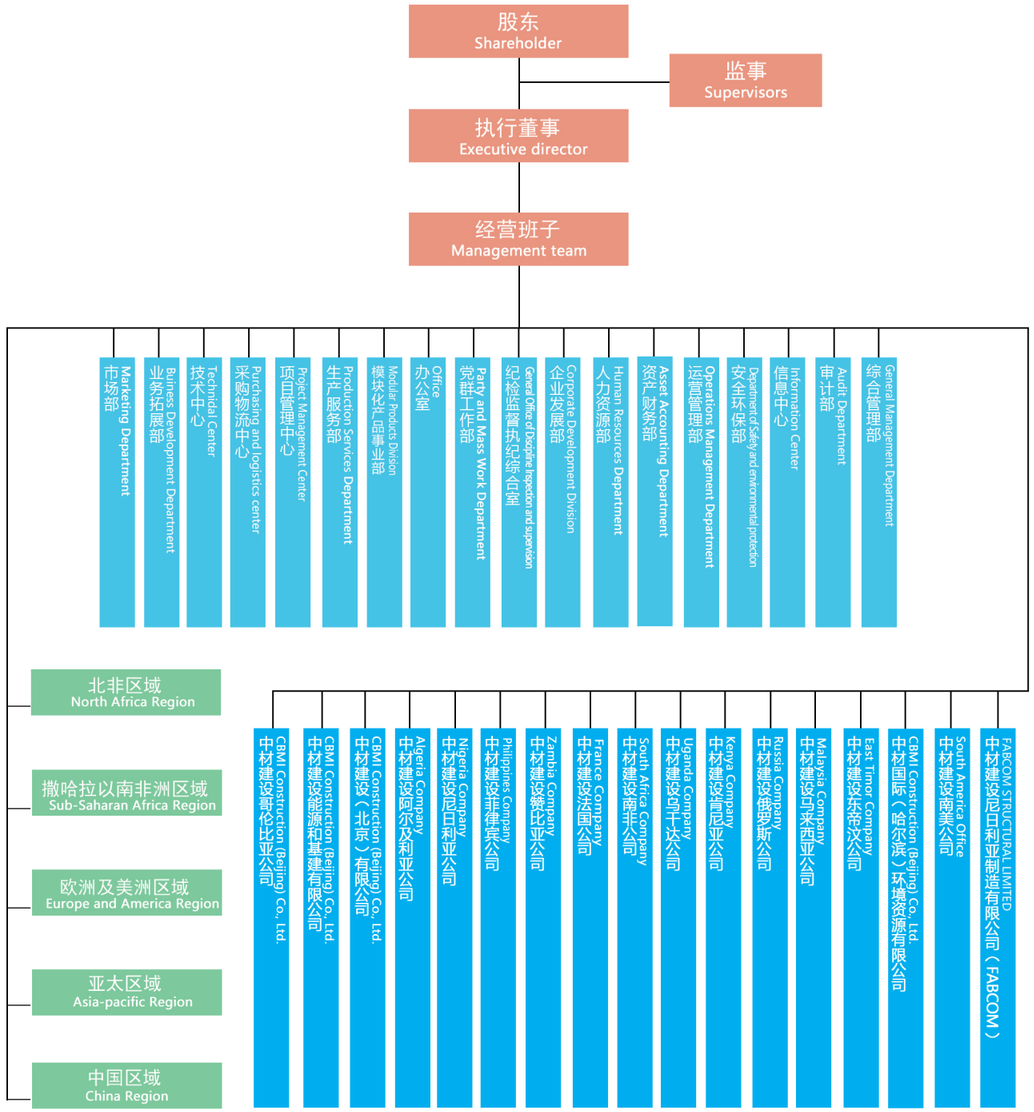
CBMI is a limited liability company established according to Company Law of the People' s Republic of China, and establishes executive directors, supervisors and operation team according to Articles of Association for CBMI Construction Co., Ltd. The Company has professional committees under it, such as 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 compliance operation of the enterprise.

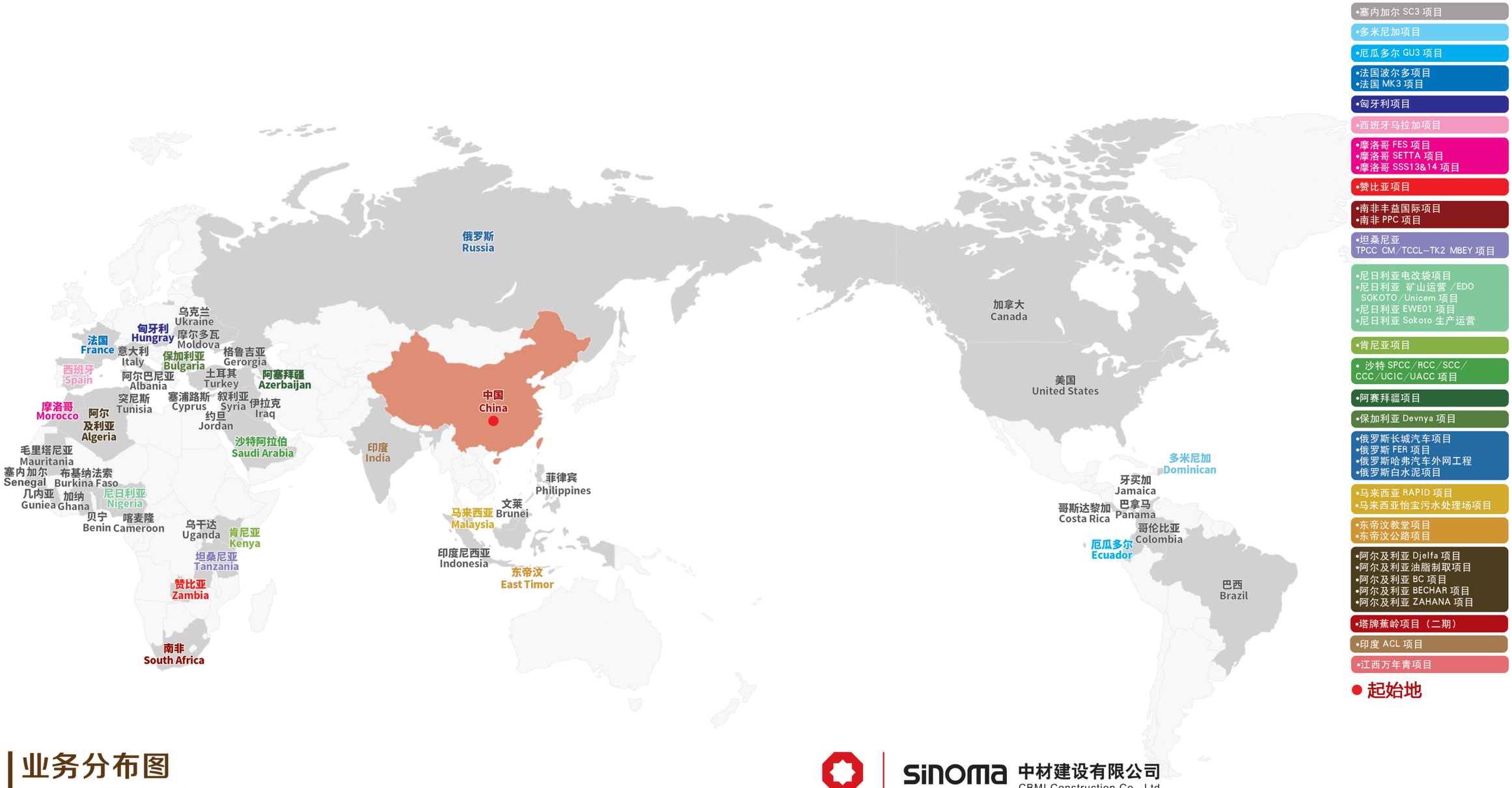
The Company holds a General Manager office meeting regularly or irregularly on a monthly basis and carries out work according to Articles of Association for CBMI Construction Co., Ltd. and Work Regulations of General Manager to make decisions on production, operation and management of the enterprise.

中材建设组织机构图
Organizational Structure Chart of CBMI

中材建设有7个业务部门、10个职能部门；项目实施分为5大区域管理，有13家境外公司。

CBMI Construction has 7 business departments and 10 functional departments; the company has 5 regional management and 13 overseas companies for project implementation.





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、哥伦比亚、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、塞内加尔、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。

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, Columbia, Syria, Saudi Arabia, Tunis, Morocco, Mauritania, Zambia, South Africa, Nigeria, Senegal, 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.

2020年新启动项目：（4个）
塞内加尔SC3项目、法国MK3项目、尼日利亚电改袋项目、南非丰益国际项目

Newly launched projects in 2020 (4):
Senegal SC3 Project, France MK3 Project, Nigeria Electric Transformation Bag Project, South Africa Wilmar International Project

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		
职工二 Staff II	国内雇佣劳工 Domestic Employees	劳资关系 Labor relations	合同、工会 Contract and trade union
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		
供应商二 Supplier II	采购业务分包 Procurement subcontracting	业务分包 Business subcontract	业务往来 Business contact
供应商三 Supplier III	国外项目所在地雇佣劳工 Foreign project-based employees		

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

参加国内外主要的社会团体
Membership Involved

序 号 No.	名 称 Name 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	中国建材工程建设协会 China National Building Materials Construction Association	副会长单位 Vice Chairman
3	中国水泥协会 China Cement Association	理事单位 Council Member
4	中国施工企业管理协会 China Association of Construction Enterprise Management	理事单位 Council Member
5	中国对外承包工程商会 China International Contractors Association	理事单位 Council Members
6	中国建筑业协会 China Construction Industry Association	理事单位 Council Members
7	中国建筑材料企业管理协会 China Building Materials Federation	会员 Memder

2020年度所获荣誉
Honors in 2020

序 号 No.	授予单位 Granting Organization	荣誉名称 Honors
1	**中国施工企业管理协会** China Association of Construction Enterprise Management	2020-2021年度第一批国家优质工程奖—— 尼日利亚EDO二线6000TPD水泥生产线总承包项目 2020-2021 First Batch of National Superior Engineering Prize - EPC Project of Nigeria EDO 6000TPD Cement Production Line II
2	**中国施工企业管理协会** China Association of Construction Enterprise Management	2020-2021年度第一批国家优质工程奖—— 阿尔及利亚BC 2×6000TPD总承包项目 2020-2021 First Batch of National Superior Engineering Prize - EPC Project of Algeria BC 2×6000TPD
3	**中国施工企业管理协会** China Association of Construction Enterprise Management	2020年度工程建设诚信典型企业 Typical enterprise of engineering construction integrity in 2020
4	**中国施工企业管理协会** China Association of Construction Enterprise Management	企业信用评价AAA级信用企业 AAA Credit Enterprise rating
5	**中国施工企业管理协会** China Association of Construction Enterprise Management	信用星级17星 17 stars of credit rating
6	**中国建筑材料企业管理协会** China National Building Materials Construction Association	2020中国建材服务业100强 Top 100 of Chinese Building Material Service Industry in 2020
7	**中国施工企业管理协会** China Association of Construction Enterprise Management	2020年工程建设行业诚信建设优秀案例—— 《诚信务实创新 铸就长青基业》 Excellent case of honesty building in engineering construction industry in 2020 - Build Everlasting Undertaking Through Honesty, Pragmatics and Innovation
8	**中国建筑业协会** China Construction Association	工程建设质量管理小组活动成果大赛III类成果—— 提高筒仓滑模施工外观质量 Class III results of results competition of Engineering Quality Management Group - improve silo slide form construction appearance quality

理念战略
Concept strategy

企业战略及理念
Enterprise strategy and concept

中材建设全面贯彻落实中国建材集团“4335”指导原则、中材国际发展战略和公司“23558”发展战略，以创新驱动发展、以改革赋能发展、以国际化促进发展、以党建引领发展，致力打造“国际一流工业工程公司”。

CBMI Construction fully implements the Corporation’s “4335” Guideline, SINOMA International’s development strategy and its own “23558” development strategy. To drive development through innovation, empower development through reform, promote development through internationalization and lead development through Party building, CBMI Construction is dedicated to building a “world-class industrial engineering company”.

23558
中材建设“十四五”发展战略
CBMI Construction’s “14th Five-year” development strategy

经营目标
Business objective

营收收入、利润总额年均增幅20%
An average yearly growth of 20% for business revenue and aggregate profit

2 三大主业
Three main businesses

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

3 5 五大方向
Five directions

国际化、数字化、属地化、多元化、产业化
An average yearly growth of 20% for business revenue and aggregate profit

5 五大区域中心
Five Regional Centers

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

8 八大重点任务
Eight important tasks

提升国际化发展水平、推进数字化全面转型、打造属地化区域中心
推动多元化发展格局、加快产业化发展布局、坚持以创新驱动发展
坚持以改革赋能发展、坚持以党建引领发展

Enhance international development level, promote comprehensive digital transformation, build localized regional center
Promote diversified development pattern, speed up industrialized development pattern, adhere to development driven by innovation
Empower development by reform and adhere to development led by Party building

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
中材建设高度重视制度建设，成立制度“废改立”专项领导小组和工作小组，多次组织制度废改立专题会议，明确制度“废改立”工作任务、目标、要求、完成时限。

公司各职能部门结合国家政策、法规以及公司实际，对公司制度体系框架、内容、以及用语等进行修正完善，废除了不合时宜的制度。在实施过程中，领导小组加强过程跟踪和进度督导检查，确保制度“废改立”工作有力有序推进。

中材建设有限公司全年新增制度16个，修订制度22个，废止制度1个。

Institutional construction
CBMI Building attaches great importance to institutional building, establishes special "recycling" leading group and work group, hosts many relevant feature meetings, and clarify "recycling" work tasks, objectives, requirements and completion deadline.

According to national policies, regulations, and based on its reality, CBMI Construction improves its system framework, conte nt and taglines, and abolishes outdated systems. During implementation, the leading group enhances process track and prog ress supervision and inspection and ensures smooth advancement of "recycling" work.

For the whole year, CBMI Construction adds 16 systems, revises 22 systems and abolishes 1 system.

制度废改立工作小组专题会议
System “recycling” work group meeting

加强业务建设　确保优质服务

Strengthen business construction and ensure high-quality service

体系建设

2020年，公司持续加强质量、环境、职业健康安全三体系建设，完成公司三体系监督审核工作。组织三体系内部审核工作，完成德安万年青项目三体系内审并对现场进行了公司体系及安全培训。

2020年完成德安万年青项目、公司总部15个部门三体系外部审核工作。

System construction

In 2020, CBMI Construction kept enhancing quality, environment and occupational health and safety building and finished the system supervision and review. The company organized the internal review on the three systems, completed internal review on the De'an Wannianqing Project and provide onsite corporate system and safety training.

In 2020, the external review on three systems of De'an Wannianqing Project and 15 departments of the Corporation was completed.

三体系内审及项目培训

Tri-system internal review and project training

业务功能建设

Construction of business function

技术设计与研发

2020年，中材建设以创新引领，围绕水泥工程主业、多元化工程、节能环保等领域，大力推进新工艺、新技术、新产品的技术创新，激活企业内部科技创新动力，加大外部“产学研用”资源协作，提高成果转化率。积极推动施工项目数字化设计，在菲律宾CRH、塞内加尔SC3、尼日利亚SKT3、菲律宾SOLK4等4个项目全面实施数字化设计、培训、数据维护和技术支持。大力实施数字化施工模拟，新投标项目全部采用数字化设计。推动智能化运维技术应用和智慧工地建设，积极在远程调试、远程诊断和智能巡检等方面予以推广和运用。

Technical design and development

In 2020, Led by innovation, CBMI Construction forcefully advances technical innovation of new technique, technology and product in terms of main cement businesses, diversified engineering, energy saving and environmental protection, stimulate momentum for corporate inside research innovation, heighten external resource collaboration of "production, study, resea rch, use" and enhance results conversion rate. The company actively promotes digital design of construction project, and provides a comprehensive digital design, training, data maintenance and technology support in 4 projects of the Philippines CRH, SOLK4, Senegal SC3 and Nigeria SKT3. CBMI Construction fully implements digital construction simulation, and all new bidding projects adopt digital design. The company phases in intelligent operation and maintenance technology application and site construction and actively promotes and utilizes remote commissioning, diagnosis and intelligent walkdown.

获奖证书

中材建设有限公司：

贵单位完成的“尼日利亚SOKOTO水泥线项目”荣获2020年度中国建材工程建设协会优秀工程设计 一等奖。

中国建材工程建设协会

二〇二〇年十二月七日

中材建设有限公司：

贵单位完成的“尼日利亚SOKOTO水泥线项目”荣获2020年度中国建材工程建设协会优秀工程设计奖

一等奖

中国建材工程建设协会

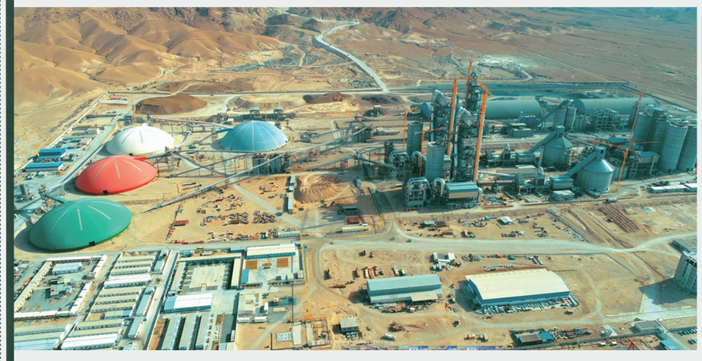
二〇二〇年十二月七日

公司设计的尼日利亚SOKOTO水泥线项目获得优秀工程设计一等奖

SOKOTO cement line project in Nigeria got the 1st prize of Outstanding Engineering

加强业务建设　确保优质服务

Strengthen business construction and ensure high-quality service



公司阿尔及利亚BC 2x6000TPD熟料水泥生产线
荣获2020年工程建设项目绿色建造施工水平 二等奖

BC 2x6000TPD clinker cement production line in Algeria got the 2nd prize of 2020 Green Engineering Construction Level

公司尼日利亚EDO2 6000TPD熟料水泥生产线
荣获2020年工程建设项目绿色建造施工水平 三等奖

EDO2 6000TPD clinker cement production line in Nigeria got the 3rd prize of 2020 Green Engineering Construction Level

采购管理

2020年，中材建设完成设备物资采买合计人民币8. 08亿元，完成合同748个。创新采购管理，充分利用互联网技术，借力网采平台、视频会议、集中打包、战略协议、集中招标等方式完成采购招标工作。强化采购成本管理，建立项目费控管理平台，动态监控费控执行情况。建立设备物资出入库平台系统并开始试运行。

Purchase management

In 2020, CBMI Construction completes procurement of equipment and materials worthy of RMB 0.808 billion and concluded 748 contracts. CBMI Construction renovates procurement management and completes procurement bidding by adequate use of Internet technology, online procurement platform, video conference, central package, strategic agreement and centr al tendering. The company heightens procurement cost management, establishes project fee control management platform and dynamically monitors fee control. CBMI Construction establishes equipment and material inbound and outbound platf orm system and commences trial operation.

物流管理

2020年全年发运散杂货船17批，集装箱234个，发运货物77991立方、33945吨，实现出口额6064万美元。

物流发运积极创新工作思路，突破传统装箱模式，大幅度降低成本。建立健全的欧洲转口货物供应链体系，降本增效，统筹规划，逐步完善在欧洲的物流供应链体系建设。

Logistics management

IIn 2020, CBMI Construction delivered 17 batches of bulk cargo vessels, 234 containers, 77,991 cubic meters of cargoes, 33,945 tons, achieving the export amount of USD 60,640,000.

CBMI actively renovates work idea of logistics, breaks through conventional container loading mode and significantly cuts cost. The company establishes an all-round European transit cargo supply chain, reduces cost and enhances effectiveness and coordinates planning and building of European logistics supply chain system.

物流发运
Logistics delivery

加强业务建设　确保优质服务

Strengthen business construction and ensure high-quality service

生产运营及调试业务

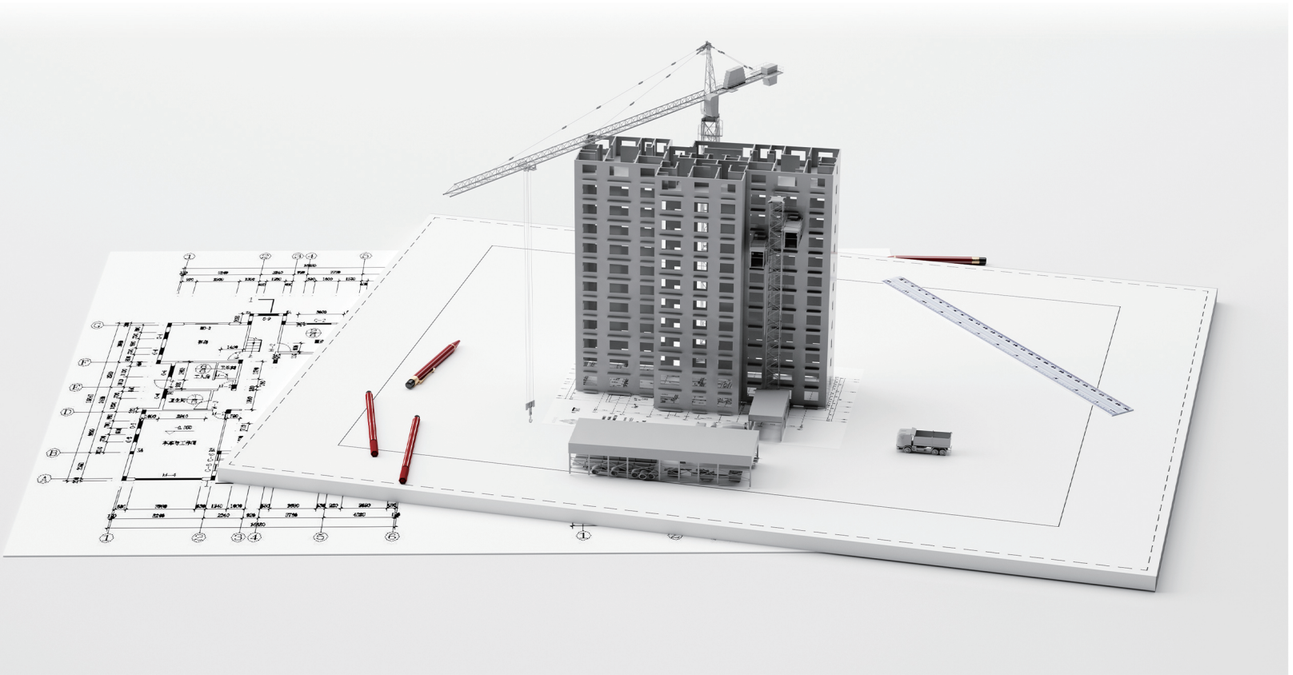
2020年，中材建设防疫生产两手抓，保障生产运营持续稳定增产。全年生产服务再创佳绩。生产运营聚焦降本增效、提产保运两大目标，从人员保障、备件消耗、生产技术支持方面，精准服务运营项目。2020年，生产运营业绩再创新高，全年熟料生产458万吨，矿山生产合计900万吨，完成产值6530万美元，同比增长29. 7%。回转窑平均运转率达到87%。

调试服务创新采用“互联网+调试”模式。在成功调试几内亚立磨经验基础上，利用数字化手段，助力4个项目调试按计划获得PAC证书。创新“水泥工程+备件”销售模式，2020年签订备件合同额6350万元，拓展新客户13个，实现稳步增长。

Production, operation and commissioning

In 2020, CBMI Construction attached parallel importance to pandemic prevention and production and secures continuous and steady growth of production and operation. The company achieved new breakthroughs and created outstanding perfo rmance of yearly production and services.CBMI Construction focuses on two objectives of cost reduction and effectiveness enhancement, output enhance and transport security. CBMI Construction provides precise services in terms of personnel se curity, spare parts consumption and production technology support. In 2020, CBMI Construction created new highs in prod uction and operation performance. The CBMI had a yearly output of clinker 4.58 million tons, mine output totaling 9 million tons, output value of USD 65.3 million, a year-on-year growth of 29.7%. The company's average operating rate of the rotary kiln reached 87%.

CBMI Construction adopts “Internet+Commissioning” mode. Based on the successful commissioning of Guinea vertical milling, the digital means are adopted to assist 4 projects’ scheduled acquisition of PAC certificate. Through innovative “cement engineering+spare parts” sales mode, the company, in 2020, signed the spare parts contract amount of RMB 63.5 million, secured 13 new customers and achieved steady growth.



项目设备检修

Project equipment maintenance

生产运营项目中控操作

Central control operation of production project

加强业务建设　确保优质服务

Strengthen business construction and ensure high-quality service

企业职能管理

Corporate Function Management

人力资源

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，不断提升企业高质量发展的人才保障能力。加强人才队伍建设，通过师带徒培训、青年员工经历跟踪、青年人才培养、学位继续教育等方式为人才队伍建设保驾护航。加强制度建设，新编制《青年人才培养办法》《学位继续教育管理办法》，修订了《员工绩效考核管理办法》《员工保密守则》《公司员工执业资格考试管理办法》，不断完善、规范公司人才培养及内部经营管理。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92人，资质取证、复审112人。开展“战疫情、练内功”的学习季相关培训、管理团队大讲堂、风险管控专题培训、工程数字化专题培训、项目管理专题培训等，不断提升员工技能。

Human Resources

CBMI Construction firmly establishes the talent idea of "talent first, ethics foremost and meritocracy", and fosters the team that "follows command, achieves victory, makes dedication and innovation", and improves the talent security for corporate high quality development. CBMI Construction enhances talent team building and safeguards it by apprenticeship, youth em ployee track record, youth talent cultivation and diploma further education. CBMI Construction consolidates institutional building, prepares new documents such as the Measures for Youth Talent Nurturing, Measures for Administration of Diplom a Further Education, and revises documents such as the Measures for Administration of Employee Performance Evaluation, Employee Confidentiality Rules, and Measures for Administration of Employee Praticising Qualification Examination, and im proves and standardizes corporate talent nurturing and internal operation management. CBMI Construction attaches impor tance to management of corporate annuity and employee titles and labor relations. The company finishes corporate annuity subscription, transfer and withdrawal of 1,178 staff, title declaration for 92 staff, qualification evidence collection and double review for 112 staff in the whole year. The company also holds events such as "pandemic prevention, and competency" train ing, management team class, training on risk management control, engineering digitization, project management and keeps improving employee skills.

公司组织风险防控专题培训

Special training on risk mitigation

公司管理团队大讲堂

Lecture hall of management team

中材国际董事长、党委书记刘燕一行到中材建设调研指导工作

Liu Yan, Chairman and Secretary of the Party Committee of Sinoma International, and his party went to Sinoma Construction for research and guidance

加强业务建设　确保优质服务

Strengthen business construction and ensure high-quality service

运营管理

2020年，中材建设始终坚持将绩效管理作为战略落地的重要抓手，加强项目实施全过程成本管控，注重开源，鼓励合同拓展。2020年，组织新签订项目经济成本责任约谈会议，以精细化管理促进项目毛利率持续提升。深入实施三精管理，将管理提升与瘦身健体有效结合。引入分包结算二次稽查，全年完成23个项目83家分包单位结算审核工作，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 2020, CBMI Construction attaches importance to strategy implementation by performance management, emphasizes cost control of entire project implementation, expands revenue source and encourages contract exploration. In 2020, the company organized the meeting on economic cost responsibility interview for newly signed project, and promote continuous enhancement of gross profit by refined management. The company deeply implements three refined management and enhanced management level. The company introduces secondary audit on subcontract settlement, completes settlement audit for 23 projects and 83 subcontractors, and effectively cuts engineering subcontract cost. The company enhances economic operation analysis strength, gives back and shares economic operation data, and timely puts forward deficiency and improvement measures during the company's economic operation.

法律法务

2020年，中材建设全力做好疫情下法律风险防控工作，全年累计处理各类诉讼、仲裁案件7起，涉案金额约1. 28亿人民币。

Legal matters

In 2020, CBMI Construction attached great importance to legal risk prevention and control during the pandemic period, and had a yearly processing of 7 lawsuit and arbitration cases, involving an amount of ~RMB 0.128 billion.

2020年度项目经济成本责任约谈会

Meeting of interview on project economic cost responsibility in 2020

财务管理

2020年，中材建设进一步加强财务管理，推进财务共享中心网络报销系统全面上线，构建一体化财务管控体系，提升价值创造能力和风险风控能力。

加强银行授信、保函及信用证管理工作，全年共获得各商业银行综合授信91. 50亿元，新开保函8. 76亿元，新开信用证0. 67亿元。提升税务管理水平，做好出口退税及高新技术企业减免税费工作。组织境外分（子）公司和项目经理部财税问题检查及整改工作，定期组织各分(子)公司交流与沟通工作经验，进一步提高境外机构财税管理水平，降低税务风险。

Financial management

In 2020, CBMI Construction further enhances financial management, comprehensively launches reimbursement system of financial share center, establishes integrated financial management control system, enhances value creation and risk control capability.

CBMI Construction enhances management on bank credit, guarantee and letter of credit, acquires a comprehensive credit of RMB 9.15 billion from commercial banks, opens new guarantee of RMB 0.876 billion and letter of credit of RMB 67 million. The company enhances taxation management level, and attaches importance to export tax rebate s well as tax relief for new high tech enterprises. The company organizes inspection and rectification on financial and taxation issues of overseas branches (subsidiaries) and departments of project manager, periodically organizes experiences of exchanges and communication among branches (subsidiaries), further improves financial and taxation management level of overseas institutions and reduce taxation risks.

2020年度财务工作“云”会议

Financial work online meeting in 2020

加强业务建设　确保优质服务

Strengthen business construction and ensure high-quality service

审计内控

2020年，中材建设通过科学规范的措施对公司的经营活动以及内控管理进行客观监督和实时评价，保障公司经营管理持续有效健康发展。

2020年，新建了3项审计管理制度、修订了3项内部审计制度，开展内控审计评价和风险管理工作，及时发现风险隐患和薄弱环节，提出整改建议和有效措施。完成9个在建项目的成本效益审计和13家属地化公司的效益核算，定期进行公司重大风险测评并形成跟踪监测表和体系报告。

全年完成5家单位的关键领域专项审计工作。开展了“2422”压减、设租寻租、资金管控交叉审计等专项审计工作。

Audit and internal control

In 2020, CBMI Construction conducts objective supervision and real-time evaluation on the company's operation and internal control management through scientific and standard measures, and secures effective and healthy development of its operation management.

In 2020, CBMI Construction establishes 3 new audit management systems, revised 3 internal audit systems, conducts internal control audit evaluation and risk management, timely detects risk hazards and vulnerabilities, and puts forward rectification measures and effective measures. The company completes cost benefit audit of 9 projects under construction and benefit calculation of 13 localized companies, periodically conducts the company's major risk measurement evaluation and forms track monitoring form and system report.

CBMI Construction completes special audit on critical areas of 5 entities, and conducts “2,422” pressure mitigation, rent, and special audit such as cross audit on fund management control.

质量管理

2020年开展了170个合同的设备质量检查，出具检查报告549个。新供应商考察54个。

进一步细化修订设备质量控制QCP文件，编制适宜不同项目业主的质量控制文件，进行日常的国内、国外设备、钢结构、材料的质量检查的计划管理，有效提高了质控能力，降低了检验成本。

Quality management

In 2020, CBMI Constructed 170 contract equipment quality inspection, issued 549 inspection reports and investigated 54 new suppliers.

CBMI Construction further refined and revised equipment quality control QCP document, prepared quality control documents for different project owners, conducted daily domestic and foreign equipment, steel structure and material quality check, effectively improves quality control capacity and reduces inspection cost.

廉政建设

2020年，中材建设将党风廉政建设和反腐败工作与业务工作同谋划、同部署、同推进、同考核，党委全面履行主体责任，纪委扎实履行监督责任，领导干部严格落实“一岗双责”，努力营造风清气正的干事创业氛围。

组织召开党风廉政建设与反腐败工作会议和领导小组会议，对全年党风廉政建设重点工作进行研究部署。和有关人员签订《党风廉政建设责任书》《领导干部廉洁自律承诺书》等，进一步压实党风廉政建设责任。

全年制定或修订《廉洁风险防控体系手册》等16个制度文件，不断扎牢制度的“笼子”。紧盯春节、中秋等重要节点做好廉洁风险防控，不断加强作风建设。

组织开展采购招标、资金支付等专项检查，坚决纠正经营管理活动中违法商业道德和市场规则及影响公平竞争的不正当交易行为。

Construction of incorruptible employment

In 2020, CBMI Construction attached parallel importance to Party honesty building and anti-corruption planning, deployment, advancement and evaluation. The Party Committee fully performs main responsibilities, the Discipline Committee substantively performs supervision responsibilities, and leading cadres stringently performs "dual responsibilities for one post" and strives to build the work and entrepreneurship atmosphere of honesty and integrity.

CBMI organizes the work meeting and leading group meeting for Party honesty building and anti-corruption, studies and deploys the yearly important tasks of Party honesty building. The company signs the Party Honesty Building Responsibility Letter and Honesty and Self-discipline Legal Commitment Letter for Leading Cadres, and further delegate Party honesty building responsibility.

For the whole year, formulate or revise 16 institutional documents including Honesty Risk Prevention and Control System Manual, and consolidate the institution foundation. Attach great importance to honesty risk prevention and control in important milestones such as the Spring Festival, Mid-Autumn Festival, and keeps enhancing discipline building.

CBMI Construction conducts special inspection on procurement bidding and fund payment, and resolutely correct unfair transactions that go against business ethics, market rules and fair competition.

签订党风廉政建设责任书

Signing Party honesty building responsibility letter

加强业务建设　确保优质服务

Strengthen business construction and ensure high-quality service

企业文化建设

2020年，中材建设企业文化建设实现新进步，群团工作“聚人气”“接地气”，一年来开展了“五一”“五四”系列群团活动，举办PPT技能大赛，健身文体活动等。结合国内外疫情变化情况和员工遇到的各种困难，关心关爱境外员工和家属，建立联系帮扶机制，切实解决员工及家属实际困难。对坚守境外的一线员工家属、老干部、老党员、生活困难的员工进行慰问。组织员工爱心捐款、开展精准扶贫工作。

Enterprise culture construction

In 2020, CBMI Construction achieved new progress for corporate culture building, and conducted "popular" and "practical" group activities. The company hosted "May 1", "May 4" group events, PPT skill competition, fitness, culture and sports campaigns, etc. Based on domestic and foreign latest pandemic situation and employees' difficulties, CBMI Construction cared for its overseas employees and families, established a mechanism to substantively resolve actual difficulties of employees and families. The company sent relief to families of overseas frontline employees, old cadres, Party members, and employees in need. The company organized employee donation and conducted precise poverty alleviation campaign.

公司工会举办“携手共进 健康悦跑”马拉松比赛
Labor Union hosted “Joining Hands, Health and Joy Run” Marathon

公司举办“健身强体防疫情”篮球比赛
The company organized basketball games to achieve the goal of strengthening the body and preventing epidemics.

公司举办英语比赛
English competition

公司开展5S管理活动
5S management campaign

强化市场开拓　确保稳健运行

Strengthen Market Development,Ensure Stable Operation

2020年，面对新冠疫情冲击、经济全球化遭遇逆流、国际化经营风险加大、市场开拓交流受限等多重因素，中材建设作为一家90%业务集中在海外的公司，积极识变求变应变，打破传统思维定势，全力以赴稳生产、促经营，确保企业稳健运行。全面完成各项目标任务，经营业绩稳步提升。

In 2020, CBMI Construction faced a number of factors, such as COVID-19 impact, economic globalization recession, inc reased international operation risk and restrictions on market expansion exchanges. With 90% of its business overseas, CBMI Construction actively confronted changes and thought out of the box. It attempted to stabilize production, accele rate operation to safeguard steady corporate operation. The company fully completes all objective tasks and steadily ramps up business performances.

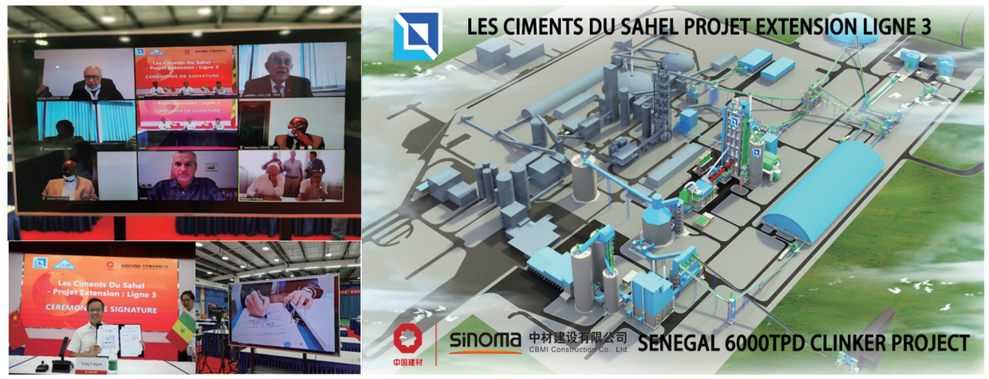
做优水泥工程业务

2020年，中材建设“朋友圈”持续扩大。积极构建国际国内双循环的新发展格局，国际市场和国内市场分别拓展了CHR、红狮集团等新合作伙伴。积极探索“线上+线下”立体宣传模式，创新“云签约”模式，成功新签尼日利亚BUA 集团3条 6000tpd 水泥熟料线项目、拉豪法国 Matres 钢结构供货及安装项目、拉豪津巴布韦模块化粉磨站项目、拉豪尼日利亚EWK 电改袋项目、红狮集团江西高安田南水泥生产线及余热发电安装项目等 14 个合同，超额完成年度目标任务。围绕重点区域和重点客户精耕细作，属地化经营化从实处发力，业务稳步开展，未可持续高质量发展不断助力。

Optimize cement engineering business

In 2020, CBMI Construction expanded its "partnership". The company expanded the new development pattern of dome stic and international dual circulation, and forged alliance with new partners such as CHR and Hongshi Group. The com pany actively explored "online+offline" vertical promotion mode, renovated "cloud signing" mode, successfully signed 14 contracts, including 3 6000tpd cement clinker lines of Nigeria BUA Group, project of LafargeHolcim Matres steel stru cture supply and installation in France, LafargeHolcim modular powder grinding station in Zimbabwe, LafargeHolcim EWK Electric Transformation Bag in Nigeria, and Jiangxi Gao'an Tiannan cement production line and residue heat power generation installation of Hongshi Group. The company exceeded its yearly objective. CBMI Construction focused on im portant areas and customers, and localized operation, and sustained steady business development to assist sustainable and high quality development.

公司“云”签订尼日利亚BUA集团3条6000TPD熟料水泥生产线EPC项目
Online signing of EPC project for 3 6000TPD clinker cement production lines of BUA Group in Nigeria



公司“云”签订塞内加尔萨赫勒水泥公司KIRENE水泥厂三线6000TPD熟料水泥EPC项目
Online signing of EPC project for 3 6000TPD clinker cement production lines of KIRENE cement factory of Ciments du Sahel in Senegal

公司签署菲律宾KINGCEM模块化粉磨站合作协议
Signing KINGCEM modular powder grinding station cooperation agreement in Philippines

强化市场开拓　确保稳健运行

Strengthen Market Development,Ensure Stable Operation

做大多元化工程业务

积极拓展多元化业务市场，按照业务相关、客户相关、市场相关三个原则，协同整合企业内外部优势资源，主动作为，进军电力、能源、化工、冶炼等多元化业务领域。重点做好丰益国际、海尔集团、三星集团等主要客户的全球业务合作，积极开拓公司全球5大区域中心及12家分子公司所在国别多元市场，坚持国际国内市场两手抓，着力打造国内国际双循环互相促进的高质量发展格局。

2020年，签订了丰益国际俄罗斯乌留平斯克榨油厂项目、海尔俄罗斯工业园区仓库+办公楼项目、南非丰益绿地食用油厂钢结构供货及安装工程项目、阿尔及利亚CEVITAL 11000t/d 油脂制取项目等11个合同。

Expand diversified engineering business

The CBMI Construction actively explores a diverse business market. According to three principles of business, customer and market relevance, the company coordinates and streamlines advantageous enterprise resources and actively marches into diverse business fields of electricity, energy, chemical and metallurgy. CBMI Construction attaches importance to the global business cooperation with important customers such as Wilmar International, Haier Group and Samsung Group. The company actively explores the diverse market in places of its 5 regional centers and 12 branches and subsidiaries, attaches importance to its domestic and international market, and highlights the high quality development pattern of domestic and international dual circulation.

In 2020, CBMI Construction signed 11 contracts, including oil extraction project of Wilmar International in Ulyupinsk, Russia, Haier industrial park warehouse + office building in Russia, Wilmar Greenland edible oil factory steel structure supply and installation in South Africa, CEVITAL 11000t/d grease making in Algeria.

公司“云”签订海尔集团俄罗斯工业园项目

Online signing of the industrial park project of Haier Group in Russia

公司签订阿尔及利亚Frigomedit国家冷藏公司Tamanrasset 10000m3冷藏库EPC项目

Signing of EPC project for Frigomedit Tamanrasset 10000m³ cold storage in Algeria

马来西亚怡保污水处理厂项目

Ipoh Sewage Treatment Plant project in Malaysia

强化市场开拓　确保稳健运行

Strengthen Market Development,Ensure Stable Operation

做强产业投资业务

强化战略引领，积极推进轻制造业投资、自主业务投资和集团国际化协同投资。加快屋面系统产业投资发展，构建彩石瓦屋面系统非洲市场领先地位。加大模块化产品投入，构建核心竞争优势，打造行业拳头产品。

尼日利亚拉各斯年产200万平方米屋面系统金属彩石瓦项目建成投产，年产500万平方米硅酸钙板生产线项目建设中。阿尔及利亚年产6000吨钢结构及非标设备加工制造厂投资建设中。持续提升公司发展能力和国际竞争力。

Strengthen industry investment business

CBMI Construction strengthens the strategic leading, and actively promotes investment on light manufacturing, independent business and international collaboration of Corporation. The company speeds up roof system industry investment and development, and establishes its leading position of color tile roof system in African market. The company heightens modular product input, establishes core competitive edge and build the fist product.

The roof system metal color tile project with a yearly output of 2 million m2 in Lagos, Nigeria was put in operation, and the project of calcium silicate plate production line with a yearly output of 5 million m2 is under construction. The steel structure and non-standard equipment processing factory with a yearly output of 6,000 tons in Algeria is under investment and construction. The company keeps improving its development capacity and international competitiveness.

尼日利亚FABCOM制造厂车间
FABCOM manufacturing workshop in Nigeria

2020年中材建设传统业务签约项目

Signed contracts on traditional business in 2020

2020年，中材建设传统业务签订合同的项目14个。

In 2020, CBMI Construction signed contracts for 14 traditional business items

序 号 No.	项目名称 Project name	合同模式 Model of contract	签约时间 Time of signing
1	CRH菲律宾Iligan 6000TPD熟料新线项目 CRH Iligan 6000TPD new clinker line in Philippines	EPC	2020. 1. 16
2	LH法国Matres项目AFR钢结构供货及安装合同变更 Change of contract for LH Matres project AFR steel structure supply and installation in France	EPC	2020. 2. 20
3	叙利亚SBR电厂项目 SBR power plant in Syria	EPC	2020. 2. 27
4	高安田南红狮水泥公司水泥生产线和余热发电安装合同 Gao'an Tiannan cement production line and residue heat power generation installation of Hongshi Group	C	2020. 3. 21
5	BUA尼日利亚SOKOTO三线 6000TPD项目变更 BUA ADAMAWA 6000TPD cement line in Nigeria	EPC	2020. 8. 6
6	BUA集团尼日利亚SOKOTO 50MW电厂供货及安装项目 BUA SOKOTO 50MW power plant supply and installation in Nigeria	EPC	2020. 8. 6
7	塞内加尔CDS公司6000TPD熟料线项目 CDS 6000TPD clinker line in Senegal	EPC	2020. 8. 13
8	LH津巴布韦模块化粉磨站项目 LH modular powder grinding station in Zimbabwe	EPC	2020. 8. 27
9	SOKOTO项目新签气站基础施工增补合同 Newly signed gas station infrastructure construction addition contract for SOKOTO project	C	2020. 9. 16
10	拉豪尼日利亚EWK电改袋项目 LafargeHolcim EWK Electric Transformation Bag in Nigeria	EPC	2020. 9. 30
11	红狮集团骨料生产线机电设备安装合同 Electric and mechanical equipment installation contract of aggregate production line of Hongshi Group	C	2020. 11. 6
12	拉豪菲律宾Lugait热风管道改造项目 LafargeHolcim Lugait hot air duct remodeling in Philippines	EPC	2020. 12. 21
13	BUA集团尼日利亚EDO三线6000TPD水泥线项目 BUA EDO line 3# 6000TPD cement line in Nigeria	EPC	2020. 12. 22
14	BUA集团尼日利亚 Sokoto四线6000TPD水泥线项目 BUA EDO line 4# 6000TPD cement line in Nigeria	EPC	2020. 12. 22

强化市场开拓　确保稳健运行

Strengthen Market Development,Ensure Stable Operation

2020年中材建设多元业务签约项目

Signed contract on diversified business in 2020

2020年，中材建设多元业务全年签约11个合同。

In 2020, CBMI Construction signed 11 contracts for its diverse businesses.

序 号 No.	项目名称 Project name	合同模式 Model of contract	签约时间 Time of signing
1	尼日利亚年产500万平方米硅酸钙板生产线项目 Calcium silicate plate production line with a yearly output of 5 millionm2 in Nigeria	EPC	2020. 1
2	尼日利亚Abia商贸城项目 Abia mall in Nigeria	C	2019. 4
3	俄罗斯新特罗伊茨克氧化铬技改项目 Chromium oxide technical modification in Novotroetsk, Russia	E	2020. 6
4	阿尔及利亚赫里赞水泥磨安装项目 Cement grinding installation in Hrizan, Algeria	C	2020. 6
5	丰益国际俄罗斯乌留平斯克榨油厂项目 Wilmar International in Ulyupinsk, Russia	E	2020. 8
6	海尔俄罗斯工业园区仓库+办公楼项目 Haier industrial park warehouse + office building in Russia	C	2020. 9
7	阿尔及利亚CEVITAL 11000t/d 油脂制取项目挡土墙工程 CEVITAL 11000t/d grease for retaining wall in Algeria	C	2020. 9
8	阿尔及利亚CEVITAL 11000t/d 油脂制取项目大豆储库库体滑膜工程 EVITAL 11000t/d grease for soybean storage slide form engineering in Algeria	C	2020. 9
9	赞比亚孤儿院&学校项目 Orphanage & school in Zambia	C	2020. 7
10	阿尔及利亚赫利赞El Djazira钢厂第一标段土建工程施工 El Djazira steel factory bid section 1 civil construction in Hrizan, Algeria	C	2020. 12
11	南非丰益绿地食用油厂钢结构供货、及安装工程项目 Wilmar Greenland edible oil factory steel structure supply and installation in South Africa	PC	2020. 12

坚持创新驱动　改革赋能发展

Insist on innovation-driven reform and empower development

2020年，中材建设以市场和客户需求为导向，贯彻“创新、协调、绿色、开放、共享”新发展理念，加大科技创新、突破关键核心“卡脖子”技术，以科技创新助力公司向“数字化、智能化、绿色化、高端化”转型。加大核心技术研究力度，在适应项目改造市场加大技术研发和应用。在施工技术方面设立技术专项研究，以数字化技术融合项目实施，降低海外项目实施风险。加大培养和引进高端技术人才力度，激发技术人才队伍活力。加大科技创新成果转化，进一步挖掘高质量自有专利技术。注重开展科技创新工作，围绕主业、节能环保、新工艺、新技术、新产品的技术创新，激活企业内部科技创新动力，加大外部“产学研用”资源协作。

In 2020, CBMI Construction adhered to the market and customer oriented principle and implemented new development ideas of "innovation, coordination, green, open and share". The company sped up technology innovation, and broke through critical and core "bottleneck" technology to drive the company's transformation towards "Digitization, intelligence, greening and high end" through technology innovation. The company increased efforts on core technology research, and enhanced technical research, development and application in the applicable project modification field. The company conducted research into special construction technology and introduced the digital technology to mitigate the risk of its overseas project implementation. The company intensified cultivation and introduction of high end technical talents and gave rise to the vitality of technical talents. The company increased technical innovation results transformation and further excavated high quality proprietary technology; attached importance to technological innovation, stimulated internal technological innovation focusing on its energy saving, environmental protection, new process, technology and product and intensified external resource collaboration into "production, study, research and use".

强化技术创新

Strengthen the technical innovation

技术研发与创新

2020年，公司拥有有效企业标准 11 项、有效专利及软著 51 项、有效执行科研项目 31 项。新申请专利 28 项，核心技术产品和服务 20 项。2项成果获得中施企协2020 年工程建设项目绿色建造设计水平奖，2个项目获得国家优质工程（境外）奖，4项设计成果获得建材协会2020年优秀工程设计成果奖，新增补中施企协科技专家 1 名。加快二代水泥技术和智能化技术的转化及应用，在建7 个项目全面推行智慧建造。

Technology R&D and Innovation

In 2020, the company owned 11 effective enterprise standards, 51 effective patents and software copyrights, and 31 effective research projects. The company applied 28 new patents and 20 core technology products and services. 2 results acquired 2020 Green Engineering Building Design of China Association of Construction Enterprise Management, 2 projects acquired national superior engineering (overseas) prizes, 4 design results acquired 2020 excellent engineering design results prizes of Building Materials Association. 1 technology expert was added into China Association of Construction Enterprise Management. It sped up generation II cement and intelligence technology conversion and application. 7 ongoing projects fully embraced intelligence construction.

2020年，获得中国建材集团技术革新奖3项：

In 2020, it acquired 3 technology innovation awards of China National Building Materials Group Corporation

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	三角形桁架式一体化皮带输送机 Triangular truss integrated belt conveyor	技术改造类 Technical transformation	二等奖 2nd 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	技术工法类 Technique	二等奖 2nd 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	三等奖 3nd prize	中国建材集团 CNBM

坚持创新驱动　改革赋能发展

Insist on innovation-driven reform and empower development

2020年，4个项目获得中国建材工程建设协会优秀工程设计奖：

In 2020, 4 projects acquired excellent engineering design award of China Building Materials Construction Society:

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	尼日利亚SOKOTO水泥线项目 SOKOTO cement line in Nigeria	工程设计 Engineering	一等奖 Second prize	中国建材工程建设协会 CNBMCA
2	拉豪喀麦隆YAO水泥粉磨站项目 LafargeHolcim YAO cement powder grinding station in Cameroon	工程设计 Engineering	二等奖 Second prize	中国建材工程建设协会 CNBMCA
3	拉豪肯尼亚NAI水泥粉磨站项目 LafargeHolcim NAI cement powder grinding station in Kenya	工程设计 Engineering	二等奖 Second prize	中国建材工程建设协会 CNBMCA
4	拉豪乌干达TOR水泥粉磨站项目 LafargeHolcim TOR cement powder grinding station in Uganda	工程设计 Engineering	二等奖 Second prize	中国建材工程建设协会 CNBMCA

2020年，2个项目获得中国施工企业管理协会奖项：

In 2020, 2 projects acquired awards of China Association of Construction Enterprise Management

序 号 No.	项目名称 Project name	奖励名称 Name of award	获奖等级 Grade of award	评奖部门 Winner department
1	阿尔及利亚BC 2*6000TPD熟料水泥生产线 BC 2*6000TPD clinker cement production line in Nigeria	绿色建造设计 Technical transformation	二等奖 2nd prize	中国建材工程建设协会 CNBMCA
2	尼日利亚EDO 2*6000tpd熟料水泥生产线 EDO 2*6000tpd clinker cement production line in Nigeria	绿色建造设计 Technique	三等奖 2nd prize	中国建材工程建设协会 CNBMCA

加大技术研发

Increase technology research and development

2020年，中材建设加大高新科研项目研发和关键核心技术的攻关支持力度，在上一年度16个项目持续开展的同时，新增15个研发项目，不断提升企业自主创新能力。

In 2020, CBMI Construction intensified research and development in new high tech projects and support for key and core tech nology breakthrough. Parallel with 16 ongoing projects of the previous year, the company newly added 15 research and devel opment projects and kept increasing the proprietary innovation capacity.

序 号 No.	项目名称 Project name	项目编号 Project No	备注 Remarks
1	电能自维持干法水泥烧成工艺及其供配电系统 Electric energy sustained dry cement burning process and its power supply and distribution system	2017RD09	高新科研延续项目 New high tech continuation project
2	数字化技术在水泥工厂全生命周期中的研究与应用 Research and application of digital technology in the full life cycle of cement factory	2017RD10	高新科研延续项目 New high tech continuation project
3	自带收尘的敞口式料斗技术的研究和应用 Research and application of dust-catching open funnel technology	2018RD01	高新科研延续项目 New high tech continuation project
4	适用于多燃料组分的全自动多炉膛热风炉系统开发与应用 Development and application of automatic multi-furnace hot blast furnace system suitable for multiple fuels	2018RD03	高新科研延续项目 New high tech continuation project
5	自动调节型移动喂料阀研发与应用 Development and application of automatic adjustable mobile feed valve	2018RD04	高新科研延续项目 New high tech continuation project
6	基于高性能计算控制系统在危险废弃物处置中的研发与应用 Development and application of high performance computing control system in hazardous waste disposal	2018RD06	高新科研延续项目 New high tech continuation project
7	强震地区大型钢结构技术研究及应用 Research and application of large steel structure technology in strong earthquake area	2018RD08	高新科研延续项目 New high tech continuation project
8	全替代燃料的预热器系统技术研究与应用 Research and application of full alternative fuel preheater system technology	2018RD09	高新科研延续项目 New high tech continuation project
9	适用于全球运维技术支持平台开发与应用 Development and application of global operation and maintenance technology support platform	2018RD11	高新科研延续项目 New high tech continuation project
10	AFR燃料在水泥工厂中的预处理系统研发与应用 Development and application of AFR fuel in pretreatment system of cement factory	2018RD12	高新科研延续项目 New high tech continuation project
11	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	高新科研延续项目 New high tech continuation project
12	低能耗旋风筒技术研究和应用 Research and Application of Low Energy Cyclone Technology	2019RD02	高新科研延续项目 New high tech continuation project
13	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	高新科研延续项目 New high tech continuation project
14	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	高新科研延续项目 New high tech continuation project
15	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	高新科研延续项目 New high tech continuation project
16	配合大模板技术的结构设计与应用 Structural design and application of large formwork technology	2019RD06	高新科研延续项目 New high tech continuation project

坚持创新驱动 改革赋能发展

Insist on innovation-driven reform and empower development

2020年高薪科研项目研发共计15项目

In 2020, there were 15 new high tech projects

序 号 No.	项目名称 Project name	项目编号 Project No	备注 Remarks
1	大处理风量的旋风收尘器研发与应用 Development and application of cyclone dust collector with big processing air volume	2020RD01	高新科研延续项目 New high tech continuation project
2	低能耗低排放预热器研发与应用 Development and application of low energy consumption low emission preheater	2020RD02	高新科研延续项目 New high tech continuation project
3	适用于高温气体环境的陶瓷闸板阀设计与应用 Design and application of ceramic gate valve suitable for high temperature gas environment	2020RD03	高新科研延续项目 New high tech continuation project
4	新型回转窑技术研究与开发 Research and development of new rotary kiln technology	2020RD04	高新科研延续项目 New high tech continuation project
5	水泥窑协同处置环境下耐火材料适应性研究 Refractory material suitability research under the cement kiln cooperative disposal environment	2020RD05	高新科研延续项目 New high tech continuation project
6	箱式回转包装机研发与应用 Development and application of box-type rotary packing machine	2020RD06	高新科研延续项目 New high tech continuation project
7	箱式固定点装车机研发与应用 Development and application of box-type fixed point loader	2020RD07	高新科研延续项目 New high tech continuation project
8	工业用箱式空压机站研发和应用 Development and application of industrial box-type air compressor station	2020RD07	高新科研延续项目 New high tech continuation project
9	工业循环水箱式集成产品研究与应用 Research and application of box-type integrated product for industrial circulation	2020RD08	高新科研延续项目 New high tech continuation project
10	水泥立磨液压系统自动控制技术研究与应用 Research and application of automatic control technology of hydraulic system of cement vertical mill	2020RD09	高新科研延续项目 New high tech continuation project
11	箱式组合电力室研发与应用 Development and application of box-type combination power room	2020RD16	高新科研延续项目 New high tech continuation project
12	组合式塔架设计与施工技术研究与应用 Research and application of combined tower design and construction technology	2020RD14	高新科研延续项目 New high tech continuation project
13	工程资料互通平台技术开发 Engineering data connectivity platform technology development	2020RD15	高新科研延续项目 New high tech continuation project
14	工程材料管控平台技术开发 Engineering data management control platform technology development	2020RD16	高新科研延续项目 New high tech continuation project
15	工程用智慧建造平台技术开发 Engineering intelligence building platform technology development	2020RD17	高新科研延续项目 New high tech continuation project

2020年，获得6项实用新型专利。

In 2020, obtained 6 utility model patents.

序 号 No.	专利名称 Name of patent	专利类型 Type of patent
1	设备模型库系统V3. 0 Equipment model database system V3.0	软件著作 Software copyright
2	水泥磨液压控制系统V1. 0 Cement mill hydraulic control system V1.0	软件著作 Software copyright
3	自带收尘的敞口式料斗 Dust-catching open funnel	实用新型 Utility model
4	管磨机轴向定位装置 Axial positioning device of tube mill	实用新型 Utility model
5	大口径高温管道专用的陶瓷闸板阀 Ceramic gate valve for large diameter high temperature pipeline	实用新型 Utility model
6	复合节能回转窑筒体衬里结构 Cylinder and lining structure of combined energy saving rotary kiln	实用新型 Utility model

坚持创新驱动　改革赋能发展

Insist on innovation-driven reform and empower development

创新项目管理

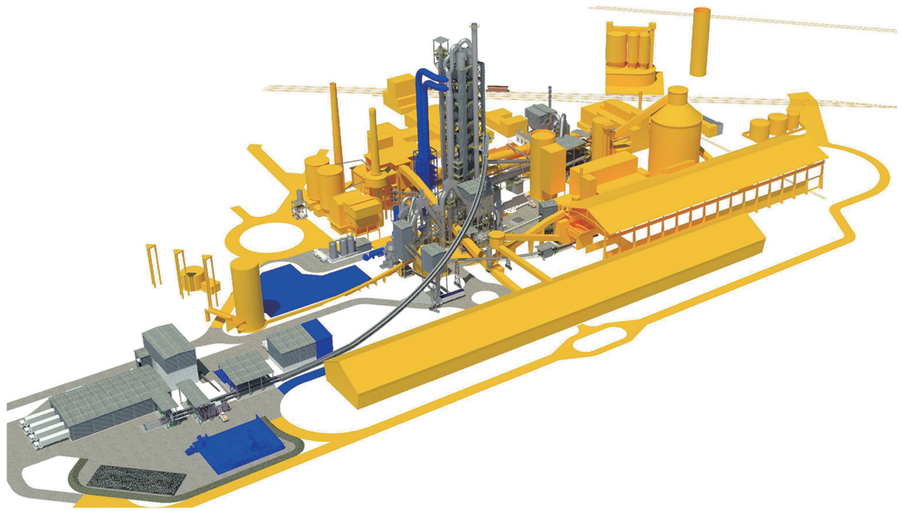
Make innovations in project management

项目管理亮点

法国 MK3 项目是中材建设第一个采用施工方案模拟的投标项目，也是第一个实施可视化施工方案交底的项目，项目的每一个关键换届都贯穿了“数字化”和“智慧建造”的主题。MK3 项目利用远程专家系统与远程桌面控制结合，通过第一视角的AR智能眼镜，公司总部、设备厂家、现场等多方联合作业，实现远程指导、常规安全检查等操作。结合3D设计模型与施工进度计划的融合，MK3 项目实现了4D可视化施工及智慧眼镜远程协同，有效保证了项目工期，降低了建设成本，实现了绿色施工和智能建造，向业主呈现了现代化工程管理的新模式。菲律宾 SOLID K4 项目和尼日利亚 SKT3 项目预热器车间均采用了4D模拟技术进行施工和施工模型的整合。

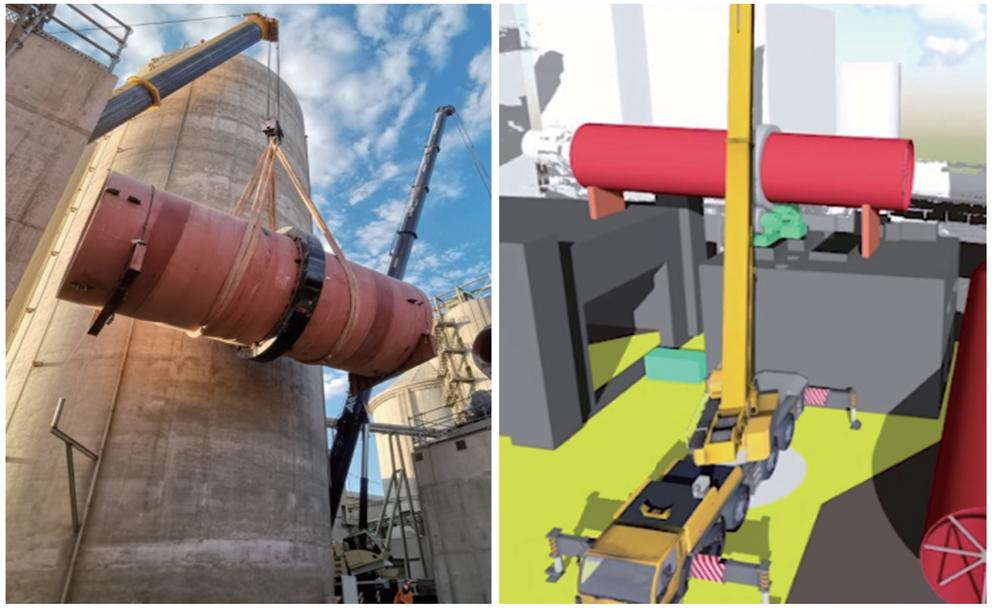
Highlights of project management

MK3 project in France is CBMI Construction’s first simulation bidding project by construction plan as well as the first project im plementing visual construction plan disclosure. Each key project process holds the theme of "Digitization" and "intelligence building". MK3 project uses remote expert system and desktop control. The first-view AR smart camera enables coordination among the headquarters, equipment manufacturers and workplace for remote guidance and regular safety inspection. Based on 3d design model and construction progress plan, MK3 project achieved 4D visual construction and smart camera remote co ordination. It effectively guaranteed project construction period, reduced construction cost, achieved green construction and intelligent building to offer a new mode of modern engineering management for owners.The preheater workshop for Philip-pines SOLID K4 and Nigeria SKT3 use 4D simulation technology for construction and constr
uction model integration.



法国 MK3 项目全景

Full view of MK3 project in France



回转窑智慧吊装对比图

Contrast of intelligent hoisting of rotary kiln

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

模块化工艺收尘器块装工法应用

中材建设承建的粉磨站项目，采用模块化设计，从研发开始就考虑现场施工工法的创新，其关键技术主要为设备模块化、尺寸箱体化、地面预组装、整体吊装，极大程度上减少高空作业，降低了安全风险，提高了工作效率，相对于传统安装缩短约58%的时间，大大降低了施工成本。

Innovation of construction method

Application of rapid assembly method of modular dust catcher

CBMI Construction has taken into consideration onsite construction technique innovation on its powder grinding station and modular design since the startup of research and development. Its key technologies are mainly equipment modularization; box-based dimensions; ground pre-assembly and overall hoisting. Such technologies greatly reduce work at height assignments, cut safety risks and improve work efficient. It reduces the work time by ~58% compared with traditional installation, and greatly narrows down construction cost.

地面预组对
Ground pre-assembly team

净气室吊装
Gas purification chamber hoisting

中箱体吊装
Middle box hoisting

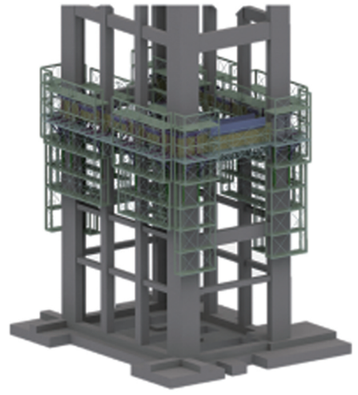
烟道吊装
Flue hoisting

水泥预热器塔架结构爬升施工装备研发及应用

针对具有水泥预热器结构特点的高层大跨度框架剪力结构施工难点，中材建设成功研制并投产了超高层结构水泥预热器塔架结构爬升施工设备。这种新技术解决了传统方式下的施工难题。使运营效率提高50%以上，人员减少70%以上，整体工期缩短40%以上。可以更有效地保障施工安全，更精准地保障工程质量。

Development and application of climbing construction equipment of cement preheater tower structure

With respect to the construction difficulties of high rise large span frame shear structure with structural characteristics of cement preheater, CBMI Construction successfully developed and put into operation climbing construction equipment of cement preheater tower structure for the over high rise structure. Such new technique has resolved the construction difficulty that cannot be addressed by many advanced processed. It helps enhance the operating efficiency by over 50%, cut personnel number by over 70%, and shorten the overall construction period 40%. It can more effectively safeguard construction safety and more precisely secure project quality.



水泥预热器塔架结构爬升施工装备
Climbing construction equipment of cement preheater tower structure

确保服务质量
Ensure the service quality

项目履约增强

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

Enhanced project performance

With over 20 years of overseas operation, CBMI Construction gives full play to international advantage, and forms a set of project-centric, and customer-oriented characteristics EPC project management system focusing on KPI indicators and gross profit management.

赞比亚工业园
Zambia Industrial Park

2020年，中材建设全年在建项目30个，其中国外27个，国内3个，取得PAC证书5个，分别是尼日利亚EWE煤磨项目、几内亚粉磨站项目、阿尔及利亚BECHAR项目、阿尔及利亚ZAHANA项目、马来西亚怡保污水处理厂项目；取得FAC证书项目6个，分别是尼日利亚EDO二线项目、阿尔及利亚BC项目、喀麦隆YAO项目、南非PPC项目、赞比亚工业园项目、马来西亚RAPAID #6项目。其中尼日利亚EDO26000TPD水泥生产线总承包项目、阿尔及利亚BC 2x6000TPD熟料水泥生产线总承包项目荣获2020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，不断提升企业品牌影响力，践行“品质经营”奠定了坚实的基础。

In 2020, CBMI Construction had 30 ongoing projects, 27 overseas, and 3 in China. The company obtained 5 PAC certificates, respectively EWE coal grinding in Nigeria, powder grinding station in Guinea, Algeria BECHAR, ZAHANA and Ipoh water treatment in Malaysia; obtained FAC certificates, respectively EDO line 2 in Nigeria, Algeria BC, Cameroon YAO, South Africa PPC, industrial park in Zambia and RAPAID #6 in Malaysia. Two projects acquired national excellent engineering prizes, and they are EDO2 6000TPD cement production line EPC in Nigeria and BC 2x6000TPD clinker cement production line EPC in Algeria. The company's good project performance has laid a solid foundation to deeply explore localized market, keep improving brand influence and implement "quality operation".

阿尔及利亚BECHAR项目
Full view of BECHAR project in Algeria

尼日利亚EDO矿山运营项目全景图
Full view of EDO mining project in Nigeria

夯实安全管理　抓好疫情防控

Pay close attention to epidemic prevention and control

中材建设始终把员工健康和生命安全放在首位，严格遵守《安全生产法》等法律法规的要求，坚持“以人为本、坚守红线、追求零伤害”的企业安全观，有效推进安全一体化、标准化、智能化建设，压紧压实安全生产责任，建立安全管理长效机制，严格执行安全生产规章制度，强化源头防范，坚决遏制各类事故发生，确保安全生产形势平稳可控，为公司高质量发展创造良好的安全稳定环境。2020年，公司累计安全投入2063万元，累计达到1117万安全工时。

安全管理制度建设

2020年，中材建设制定、修订了《生态环境保护节能减排管理办法》、《突发环境事件处理管理规定》、《安全技术交底制度》等安全环保制度，进一步完善了公司安全环保管理制度体系。

CBMI Construction gives priority to employee health and safety, and strictly observes laws and regulations such as the Law on Safety Production. With the safety outlook of "people orientated, observing redline and pursuing zero fatality", the company effectively advances safety integration, standardization and intelligence and strictly implements safety production responsibility. The company establishes the permanent safety management mechanism, implements safety product rules and curb hazard sources. Besides, it effectively inhibits incidents, safeguards safety production and creates a safe and stable environment for high quality development. In 2020, the company’s accumulated safety input was RMB 20.63 million, and the company achieved 11.17 million safety work hours.

Construction of safety management system

In 2020, CBMI Construction formulated and revised the safety and environmental systems, such as the Measures for Administration of Ecological Environment Protection, Energy Saving and Emission Reduction, Provisions for Administration of Sudden Environmental Incidents and Safety Technology Disclosure System, and further improved the corporate safety and environment protection systems.

公司召开境外疫情防控部署视频会议
CMIC Construction’ s overseas video meeting on COVID-19 prevention and control

落实安全主体责任

全面落实主体责任，按照“横向到边、纵向到底”的原则，逐级签署安全环保责任书，将责任落实到部门和个人。2020年，公司与部门、分（子）公司、项目经理部签订949份安全环保责任书，100%覆盖责任网络。

Implement safety main body responsibility

CBMI Construction fully implements the main responsibility, follows the "thorough and comprehensive" principle, signs level by level safety and environmental protection responsibility letter and delegate responsibilities to the department and individual. In 2020, CBMI Construction and departments, branches (subsidiaries), and the department of project manager signed 949 safety and environmental protection responsibility letters, achieving 100% responsibility grid coverage.

培育安全文化建设

中材建设坚守“发展决不能以牺牲安全为代价”的红线意识，以安全文化建设为引领，创新安全教育方式，通过“魔学院”移动安全培训平台、作业现场“体验式安全培训区”、多媒体安全培训工具箱等有效提高全员安全意识，开展形式多样、内容丰富的“安全生产月”活动，在公司内部营造浓厚的安全文化氛围，为安全生产提供有力保障。2020年，公司开展安全培训529场，培训18000余人次，培训覆盖率100%。

Safety culture creation

CBMI Construction adheres to the redline awareness of "development not at the cost of safety compromise". Led by safety culture construction and renovating safety education, the company effectively enhances the staff’s safety awareness through "magic academy" mobile safety training platform, workplace "experience safety training zone", and multimedia safety training toolkit, and conducts diverse "month of safety production" activities with rich contents. The company formed a profound safety culture atmosphere to provide forceful security for safety production. In 2020, the company conducted 529 safety training covering over 18,000 personnel, achieving 100% training coverage.

公共安全培训
Public safety training

实施科技兴安管理

中材建设实施科技兴安战略，按照“建成本质安全型企业”要求，加强信息化、智能化技术成果转化，形成了依靠科技进步保障安全生产的重要力量。一方面，充分利用安全培训平台“魔学院”开展安全培训和宣传，让员工利用碎片时间进行学习，做到安全意识入心入脑，牢固筑造全员安全意识防线；另一方面，利用智慧工地系统和智慧眼镜开展远程监控和安全检查，帮助现场消除事故隐患，遏制安全事故。

Safety management through technology

CBMI Construction implements the strategy of safety through technology. According to the requirement for "an intrinsic safety enterprises", CBMI Construction intensified informationization and intelligence technology results transformation, and forms the important force to secure safety production by technological progress. On one hand, the company takes adequate use of safety training platform "magic academy" to conduct safety training and promotion and encourages staff to study in spare time. The company aims to instill safety awareness into all staff. On the other hand, smart workplace system and intelligent camera are used to conduct monitoring and safety check. It helps eliminate workplace hazards and inhibit safety incident.

夯实安全管理　抓好疫情防控

Pay close attention to epidemic prevention and control

加强疫情防控

中材建设认真落实疫情防控要求，统筹总部各部门、境外23个项目部、12家属地化公司形成防治合力，层层压实责任，加强组织领导、健全防控预案、保障物资储备、加强防疫宣传、加大监督排查、组织新冠疫苗接种，坚决打赢疫情防控攻坚战。尼日利亚EDO项目、阿尔及利亚BECHAR项目、南非PPC、阿尔及利亚ZAHANA项目等多个境外项目疫情防控扎实有效受到上级表扬。

Enhance COVID-19 prevention and control

CBMI Construction earnestly follows COVID-19 prevention and control requirements, and forms synergy of prevention and con trol among departments of headquarters, 23 overseas project departments and 12 localized companies. The company fulfills responsibilities level by level, consolidate leadership, improve prevention and control plan and secure material reserve. The company also steps up publicity on pandemic prevention, enhances supervision and inspection, coordinates vaccination and resolutely wins the battle against COVID-19. The effective COVID-19 prevention and control measures taken by a number of overseas projects, such as EDO project in Nigeria, BECHAR project in Algeria, South Africa PPC, and Algeria ZAHANA, are highly recognized by the superior.

公司组织新冠疫苗接种
COVID-19 vaccine inoculation

员工生活区日常消毒
Daily disinfection of staff living area

防疫安全教育
Anti-pandemic safety education

防疫安全宣传栏
Anti-epidemic safety bulletin board

全面复工复产

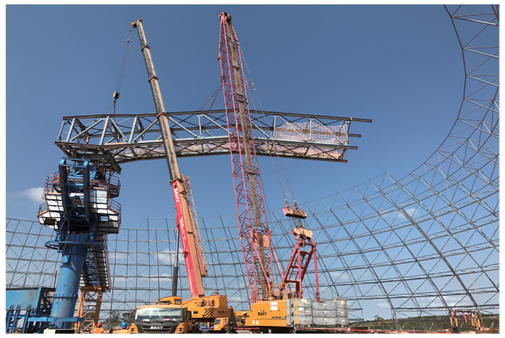
疫情爆发后，公司境内外干部员工冲在前线，314人逆行出征奔赴9个国家，11个境外项目部；1480名员工坚守海外一线，超过10%员工境外坚守超过一年。

公司境外项目在2020年9月份实现100%复工复产。29个在建项目取得良好业绩，5个项目顺利点火，5个项目取得PAC证书，6个项目取得FAC证书。

Comprehensive work resumption

After the epidemic breakout, 314 domestic and overseas cadres and employees of CBMI Construction got to 9 countries and 11 overseas project departments; 1,480 staff insisted on working overseas, and over 10% of staff working overseas for over 1 year.

CBMI Construction’ s overseas projects fully resumed production in September 2020. 29 projects under construction achieved good performance, 5 projects smoothly ignited the fire, 5 projects obtained PAC certificate and 6 projects achieved FAC certifica te.



公司海内外项目疫情期间实现100%复工复产
The company achieved 100% resumption of work and production during the epidemic period of the compa- ny’s domestic and overseas projects

公司“最美逆行者”蓄势待发
“The most honorable workers” ready to be dispatched

夯实安全管理　抓好疫情防控

Pay close attention to epidemic prevention and control

关注员工健康

中材建设密切关注员工的身心健康。实施预防性体检和专业评估，拓宽员工境外就医通道，减少海外项目员工发生恶性或急性医疗事件；积极与健康管理专家沟通，完善疫情应对、处置措施，制定疟疾、伤寒等传染性疾病防治方案，为员工健康提供更多保障；定期发布健康宣传海报，引导员工树立积极健康心态。2020年，公司开展员工外派前适岗评估265人次。

Care for employee safety

CBMI Construction seriously monitors physical and mental health of employees. CBMI Construction conducts preventive physi cal examination and professional evaluation, expands channel for overseas staff to access to medical care, and mitigate serious or acute medical event for overseas project staff. The company actively communicates with health management experts, impr oves safeguards against pandemic and disposal, and formulates prevention plan for infectious diseases such as malaria and ty hoid, providing more securities for employee health. The company periodically issues health promotion poster, and guides em ployees to have the active health mentality. In 2020, the company conducted job suitability evaluation for 265 staff before dis patch.

中国援赞医疗队到赞比亚公司进行疫情防控知识讲座

Chinese medical team delivered lecture on anti-pandemic knowledge in Zambia company

提升安保管理

公中材建设坚持“员工生命高于一切”，建立海外安全防控管理体系，深化安保管理体系运行。根据境外项目不同风险等级和所在地的社会及自然状况，通过组织安保专家开展海外风险实地考察评估，聘请安保专家入驻现场提供全方位安保服务，安保机构总部提供信息和技术支持等举措，全面加强社会安全风险防控，持续提升境外突发事件应急处置能力。2020年截止年底，公司境外公共安全突发事件0起。

Improve security management

CBMI Construction gives first priority to employee health, establishes overseas safety management system, and deepens securi ty management system operation. In light of different risk rating of overseas project and social and natural conditions of the project place, CBMI Construction organizes security experts to conduct field investigation and evaluation on overseas risks and provide an all-round security services. The security headquarters provides information and technology support. CBMIC Const ruction comprehensively enhances social safety risk prevention and control and sharpens the skill to deal with overseas emer gency. By the end of 2020, the company experienced 0 overseas public safety emergency event.

中材建设安全生产管理组织机构图

Management Operation

倡导节能环保 共建绿色生态

Advocate energy saving, environmental friendly and build a green ecology

节能环保技术研发

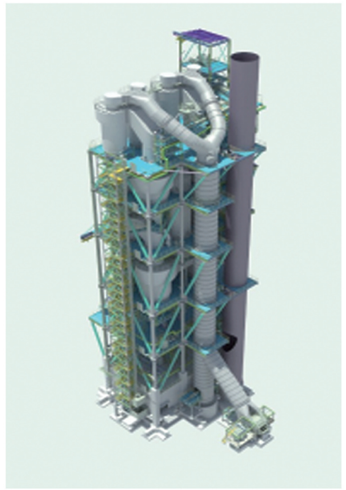
Research and development of energy saving and environmental technology

高效低压损、低氮预热器系统

预热器系统经过不断优化改进，实现了高效、低压损、低氮，关键性能指标提升明显，六级预热器出口气体温度≤260℃，烧成系统阻力（六级预热器）≤4800Pa，入窑物料分解率≥95%，自脱硝率≥50%。氮化物的排放量减少、能源利用率提高、能耗降低。

Efficient, low pressure loss, low nitrogen preheater system

The preheater system undergoes continuous optimization and achieves efficiency, low pressure loss, low nitrogen. The key performance indicators improve significantly and the outlet gas temperature of six-stage preheater is≤ 260℃. The burned system resistance (six-stage preheater) is ≤4800Pa, kiln inbound material breakdown rate ≥95%, self-denitrification rate≥50%. The device features less disp lacement of nitrides, higher energy availability and lower energy loss.



预热器系统效果图

Preheater system rendering

替代燃料智能化处理系统

研发了可同时处置多种替代燃料的智能处理系统，每种替代燃料有相应的卸车区、储存区、出料区。根据工作班制、来料情况，进行自动化程序控制。同时配备智能识别系统，控制进出口闸门启闭，保障整个系统处于有效封闭和微负压空间，精准抑制粉尘和气味逃逸。

Alternative fuel intelligent disposal syste

The intelligent system that can simultaneously deal with a variety of alternative fuels is developed. Each alternative fuel is equipped with the corresponding unloading area, loading area and discharge area. The automatic program control is ena bled according to work system and feeding. The intelligent identification system is equipped to control inlet and outlet gate opening/closing. It ensures that the whole system is under effective closure and tiny negative pressure, and precisely inhibits dust powder and odor escape.

替代燃料智能化处理系统区

Alternative fuel intelligent treatment system area

替代燃料智能化处理系统设备

Alternative fuel intelligent treatment system equipment

节能环保业务拓展

Energy saving and environmental protection expansion

2020年，中材建设积极拓展环保业务，在国内废弃物处置领域，完成包括广东塔牌2个固废EPC项目、江西万年青德安危废EPC项目以及江西万年青赣州危废EPC项目的调研或投标工作。在国际环保领域，以绿色、清洁、低碳、循环、可持 续发展的设计理念，大力实施 “智慧建造”及各类新技术，全球低碳减排做出了积极贡献。

In 2020, CBMI Construction actively expanded environmental undertakings. In terms of domestic scrap disposal, the compa ny completed survey or bidding for a number of projects, including 2 solid waste EPC projects for Guangdong Tapai, Jiangxi De'an Wannianqing hazardous waste EPC project and Jiangxi Ganzhou Wannianqing hazardous waste EPC project. In terms of international environmental environment, the company adheres to the design ideas of greening, cleaning, low carbon, recycling and sustainable development, forcefully implements "smart building" and a variety of new technologies to make active contributions to global low carbon and emission reduction.

广东塔牌2个固废EPC项目研讨会

2 solid waste EPC projects workshop for Guangdong Tapai

倡导节能环保 共建绿色生态

Advocate energy saving, environmental friendly and build a green ecology

节能环保生产实例

Examples of energy saving and environmental production

水泥行业的二氧化碳排放量在全球碳排放占比13%，在选择使用减排多样性技术中，使用替代燃料在减少水泥企业碳排放方面技术研究已经趋于程度和可靠。中材建设经过多年研究和技术累积，在水泥企业碳减排方法中，通过梳理不同替代燃料的特性及技术路径，系统性研究和掌握替代燃料处理技术，不断提高燃料替代率，更好地满足客户需求，提高市场竞争力。

Carbon dioxide emission in cement sector accounts for 13% in the global carbon emissions. When making selection among diverse technologies of emission reduction, the use of alternative fuel to reduce carbon emission of cement enterprises tends to be reliable. Through many years of research and technology accumulation, CBMI Construction conducts systemic research and masters alternative fuel processing technology by streamlining characteristics and technical route of different alternative fuels in cement carbon emission reduction. The company hopes to improve fuel alternative rate, better meet customers' demands and improve market competitiveness.

生物质燃料 Biomass fuel

替 代 率：100% 替代燃料：绒毛类废物（粗）、碎轮胎、碎木头、整汽车轮胎、整卡车轮胎、污泥（将来）、 绒毛类废物（细）、动物肉、种子、废油、含水溶剂（COHU）等十余种；

Replacement rate 100%
Alternative fuel: over ten varieties, such as fluffy waste (coarse), broken tire, shredded wood, complete vehicle tire, complete truck tire, sludge (future), fluffy waste (fine), animal meat, seed, waste oil and aqueous solvent (COHU)

处置设备 Treatment equipment

关爱员工利益 共创和谐企业

Care employees' interests and create a harmonious enterprise jointly

2020年，中材建设坚持和谐发展，实现企业与社会，与环境和员工的和谐共融。尊重和保护员工权益，开展多项活动，努力构建和谐企业。

In 2020, CBMI Construction adheres to harmonious development and achieve harmonious coexistence of enterprise, society, environment and employee. The company safeguards and protects employee interests and conduct a number of activities to build a harmonious enterprise.

尊重保护员工权益

Respect and protect the rights and interests of employees

截止2020年底，中材建设拥有员工1132人，大专及以上学历人员788人，占公司总人数的69. 6%；拥有科研人员194人，占公司总人数的17. 2%；2020年公司新增员工10人，其中校园招聘9人、社会招聘1人。

2020年，中材建设工会认真履行职能，做到疫情防控与生产经营“两手抓、两不误、两促进”，确保职工民主管理。建立职工诉求表达机制，维护职工合法权益。通过职代会审议公司工作报告，表决通过与切身利益相关的事项。

By the end of 2020, CBMI Construction owns 1,132 staff, and has 788 staff holding college degree and above, accounting for 69.6% of total corporate staff. The company owns 194 research staff, accounting for 17.2% of total corporate staff. In 2020, the company introduced 10 new employees, recruiting 9 from campus and 1 from society.

In 2020, CBMI Construction earnestly performed responsibilities, and attached parallel importance to pandemic prevention and production operation and secured democratic management on employees. The company establishes employee complaint mechanism and safeguards legal interests of interests. The company deliberates corporate work report through employee representative meeting and shows opinion matters related to employees' immediate interests.

积极为职工服务

Actively serving employee

2020年，中材建设关心职工健康，继续为全体在职职工、退休职工办理平安住院安心保险和补充医疗保险，生病职工的正常医药费用基本上全部能够报销，减轻了生病职工的经济负担。组织在职职工、退休职工进行健康体检，加强人文关怀。

In 2020, CBMI Construction cared for employee health, continued to provide assured insurance and additional medical insurance for active and retired employees. Normal medical expenses of sick employees can be basically covered, which alleviates financial burden of sick employees. The company conducted physical examination on active and retired employees and provided more humane care.

公司“同心同愿 共战疫情”境外疫情防控身心疏导系列篇

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

关爱员工利益 共创和谐企业

开展"送温暖"活动

Carry out "sending warmth" activity

2020年，中材建设为32名困难职工或遗属发放慰问金。慰问15名生病职工、去世职工家属及直系亲属去世职工。

2020年，中材建设各分（子）公司、项目部积极宣传新型肺炎防控的法律知识和防控知识，根据本单位实际情况通过不同的方式，积极服务职工，关心职工生活，疏解职工焦虑情绪和心理压力，促进职工身心健康。阿尔及利亚ZAHANA 项目、贝沙尔项目、杰勒法项目、摩洛哥项目、南非公司等工会分会委员通过现场视频连线方式开展工座谈会或利用节假日和晚上时间与职工、分包单位人员进行沟通谈心，了解员工心理状态，家庭情况和诉求，及时帮助其困难。为复工外籍员工捐赠防疫爱心包，努力为员工排忧解难，让其安心工作。疏解中外两国职工焦虑情绪和心理压力，每个月开展职工生日慰问活动，使员工感受到公司大家庭的温暖。

In 2020, CBMI Construction sent relief fund to 32 employees in need or their families, and showed relief to 15 sick employees, family or immediate relative of deceased employees.

In 2020, branches (subsidiaries), project department of CBMI Construction actively publicized knowledge on COVID-19 prevention and legal provisions. According to the company's actual condition, the company actively served employees and cared for employee life, alleviate anxiety and psychological pressure of employees and promote their physical and mental health. Members of labor unions for projects of Algeria ZAHANA, BECHAR, Djelfa, Morocco, and South Africa company conducted symposiums via live streaming or use holidays or night time to communication employees and subcontracting staff. The company hopes to know the employees' physical and mental health, family status and complaint and timely address their difficulties. The company donated care package for overseas employees after resuming work, attempts to alleviate difficulties for employees and made them work with relief. The company alleviated anxiety and psychological pressure of domestic and overseas employees, conducted monthly employee birthday relief and made employees feel warmth of the big family of the company.

公司到四川劳务基地慰问境外员工家属
Delivering relief to families of overseas staff in Sichuan Labor Base

做好爱心互助活动

Do well in the "love and mutual assistance" activity

2020 年，中材建设“爱心基金会”为符合受助条件的 7 名会员本人或家属给予了资助。这项“暖心工程”切实为公司广大职工筑起抵御风险的保障线，撑起遮风挡雨的保护伞，建起温暖幸福的“家园”，实现了公司帮扶工作长效化、常态化。

2020年，中材建设通过“禾苞蛋”平台定点帮扶一区四县的农副产业，为全面推进乡村振兴贡献力量。参加“善建奔跑、共享健康、奉献爱心、助力脱贫攻坚”主题活动，帮助定点帮扶地区脱贫基础更坚固。

In 2020, CBMI Construction's "care foundation" offered relief for 7 eligible members or families. Such "care engineering" provides a substantive security line for vast employees as well as a weather-proof umbrella. Such a warm and happy "homeland" makes the company relief permanent and normalized.

In 2020, CBMI Construction's "poached egg" platform provided help for agricultural byproduct in one region and four counties, contributing to the effort of fully advancing countryside rejuvenation. Though the theme campaign of "co building, share health, care and poverty alleviation breakthrough", the company consolidates the foundation for the designated areas.

公司工会组织参加集团“善建奔跑、共享健康、奉献爱心、助力脱贫攻坚”跑步活动
Labor Union organized the corporation run of “Building and Run, Sharing Health, Showing Care and Assisting Poverty Alleviation”

关爱员工利益　共创和谐企业

Care employees' interests and create a harmonious enterprise jointly

丰富员工业务文化生活

Rich cultural activities

2020年，中材建设积极开展活动，丰富职工文化生活，增强企业员工身体素质，调动员工工作热情，提高团队协作意识，营造出健康向上的工作氛围。公司工会组织开展 “初心不忘践使命·强身健体防疫情”为主题系列文体活动，阿尔及利亚杰勒法项目在五一、五四双节期间开展了套圈、单人定点投篮、单人跳绳等单人活动，摩洛哥项目开展了台球、乒乓球比赛和烧烤活动，塔牌项目开展了登山活动。肯尼亚公司安装网络宽带，开展在线竞赛活动，尼日利亚 EDO 项目开展视频聚餐、视频聊天活动，让员工足不出户就可以丰富自身生活。

In 2020, CBMI Construction actively conducted campaigns to enrich cultural life and enhance employee's physical stamina. The company aimed to mobilize employees' work enthusiasm, team work sense and created a healthy work atmosphere. The labor union conducted the cultural activities with the theme of "stay true to mission · strong heath against COVID-19". During the May 1 and May 4 festivals, Algeria Djelfa project conducted campaigns such as ring tossing, single set shot, single rope skipping; Morocco project conducted billiards, Ping Pong and barbecue; Tapai project conducted mountain climbing. Kenya company installed network wideband, and conducted online competition; Nigeria EDO project conducted video get-together and chat so that employees could stay indoors while enjoying rich life.

海外分（子）公司、项目部为提高员工身体素质，增强免疫力和抵抗力，组织KEEP、跳绳、户外登山等拓展活动

To enhance staff's physical strength, and improve immune and resistance capacity, overseas branches (subsidiaries) and project departments organized outbound activities such as KEEP, rope skipping and outdoor mountain climbing

加强社区交流　共建社会关系

Improve local living environment

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

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

海外分（子）公司、项目部，新冠疫情以来，纷纷向当地医院、社区捐赠防疫物资、生活物资等。

Since the COVID-19 breakdown, overseas branches (subsidiaries) and project departments successively donated anti-epidemic and living material, etc. to local hospitals and communities.

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

阿尔及利亚BECHAR项目在建设期间，高度重视合法合规经营、大力倡导绿色环保理念、着力解决当地居民就业，与善良朴素的BECHAR省人民结下了深厚的跨国友谊，树立了中阿合作成功典范。元旦期间，项目部向向当地小学捐赠教学器材。

During construction, Algeria BECHAR project attached great importance to legal and compliance operation, forcefully advocated green and environmental concept and brought employment opportunities for local dwellers. The company forged a strong bond with kind dwellers in BECHA, setting up a successful example of Sino -Algeria cooperation. During the new year period, the project department donated teaching equipment for local primary school.

阿尔及利亚BECHAR项目向当地小学捐赠教学器材

BECHAR project in Algeria donated teaching equipment to local primary schools

增进社区文化交流

Promote community cultural exchange

菲律宾项目部组织向当地困难员工捐款。在疫情常态化下，菲律宾项目在做好疫情防控和项目建设的同时，注重做好项目当地员工的关怀工作，积极履行社会责任，彰显了企业特殊时期的责任担当。

The project department in Philippines made donation to local employees in need. During COVID-19 normal, while attaching parallel importance to pandemic prevention and project construction, the project focused on local employee care, actively performed social responsibility and exhibited the company's responsible attitude in the critical period.

南非丰益国际项目为当地雇员送上圣诞节祝福。项目部 “迎圣诞、送爱心”举措充分调动了当地雇员的工作热情，对于营造稳定的雇佣关系及融洽的社区关系，树立良好的中资企业形象起到了积极有益的作用。

Wilmar International project in South Africa extended Christmas blessing for local employees. The “Care for Christmas” campaign of the Project Department fully mobilized the work enthusiasm for local employees, and played a positive and conducive role for building the stable employment and harmonious community relation, and establishing a favorable image of a Chinese-funded enterprise.

南非丰益国际项目为当地雇员送圣诞节祝福

Wilmar International project in South Africa extended Christmas blessing for local employees

阿尔及利亚ZAHANA项目部员工前往Djenaine Mesakine镇新落成清真寺进行友好拜访，并送去了庆典、风俗活动用帐篷。此次拜访活动进一步增加了项目部与当地民众的文化交流，树立了中材建设良好企业形象，为中阿友谊建设以及项目后期工作的开展奠定了基础。

Employees of ZAHANA project department conducted a friendly visit to the newly established mosque in Djenaine Mesakine town, and sent the tents for ceremony and customs. The visit further enhanced cultural exchange between the project department and local residents, established the sound image of CBMI Construction, and laid the foundation for Sino -Algeria friendship and the proceeding of follow up work.

菲律宾项目为当地困难员工捐款

The project in the Philippines makes donation to local staff in need

阿尔及利亚ZAHANA项目部为当地清真寺送活动用品

ZAHANA project department in Algeria delivered materials to a local mosque

探索发展
Explore development

探索发展
Explore development

数字化及智慧建造
Digitization and intelligent building

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

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

属地化经营
Localized operation

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

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

产业化发展
Industrialized development

中材建设依托阿尔及利亚、尼日利亚、俄罗斯、菲律宾、南非五大属地化区域中心，积极推进轻制造业投资、自主业务投资和集团国际化协同投资。加快屋面系统产业投资发展，构建彩石瓦屋面系统非洲市场领先地位。未来，中材建设积极探索“屋面系统”全球产业化发展布局，致力打造全球领先的屋面系统集成服务商。

CBMI Construction relies on the five regional centers in Algeria, Nigeria, Russia, Philippines and South Africa and actively promotes investment on light manufacturing, independent business and international collaborative investment. The company speeds up in dustrial investment development of roof system, and builds the market leading position of color tile roof system in Africa. In the future, CBMIC Construction actively explores the global industrial development pattern of "roof system", and aims to be a world leading roof system integration service provider.

责任绩效
Responsibility performance

2020年度关键责任绩效
2020 Key Responsibility Performance

2020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 2020, 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.

2020年度关键责任绩效
Key responsibility performance in 2020

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	30.76
纳税总额（亿元） Total tax (100 million yuan)	1.57
国有资产保值增值率（%） Value preservation and appreciation rate of State-owned assets (%)	106.90
净资产收益率（%） Return on equity (%)	10.58
经济增加值（亿元） Economic value added (100 million yuan)	8.57
毛利率（%） Gross profit rate (%)	22.54
人均创利税（万元） Per capita profit and tax (10 thousand yuan)	32.82
全新新签合同额（亿元） Newly signed contract value (100 million yuan)	67.61
完成出口额（亿美元） Completed export value (100 million dollars)	0.61

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	30
2019年完成项目数量 Number of projects completed in 2019	5
2019年开工项目数量 Number of projects started in 2019	4
2019年取得PAC证书数量 Number of PAC certificates obtained in 2019	5
业主综合满意度（%） Comprehensive satisfaction of owners (%)	93
业主分项满意度（%） Satisfaction of owner per item (%)	92
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	51
技术研发主要成果（项） Main achievements of technology research and development (items)	12
增加并完善企业标准（项） Corporate standards added or improved (items)	0

2020年度关键责任绩效
Key responsibility performance in 2020

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	≤0.3
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	1132
中层以上管理者中女性员工比例（%） Proportion of female employees among middle-level managers and above (%)	3.5
少数民族员工人数 Number of minority employees	32
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)	679
- 支付金额（万元） -Payment amount (10 thousand yuan)	141.75
参保意外伤害险（人） Accidental injury insurance (persons)	679
- 支付金额（万元） -Payment amount (10 thousand yuan)	88.27
年培训总投入（万元） Total annual training investment (10 thousand yuan)	38.5
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 (%)	1.4

未来展望
Future outlook

经营发展
Business development

2021年，中材建设坚持水泥工程、多元工程、产业发展三大业务定位，坚持国际化、数字化、属地化、多元化、产业化发展方向，以实现高质量发展为总目标，以构建“双循环”新格局为出发点，以三精管理和改革创新为发展“双引擎”，坚持系统观念，高质量研究“十四五”规划编制工作，科学统筹推进疫情防控和安全生产，扎实做好“六稳”工作、全面落实“六保”任务，以高质量发展为公司“十四五”开好局、起好步。

2021年，中材建设在重点区域同重点客户深入推动全方位、多层次、前瞻性的合作关系，着力打造国际国内取长补短的新发展优势。继续巩固主业市场，挖掘潜力市场，深化“水泥工程+”，以“工期短、成本低、效益快”为产品切入点，培育模块化粉磨站市场，打造产品特色新品牌和服务新优势。积极拓展多元业务市场，按照业务相关、客户相关、市场相关三个原则，协同整合企业内外优势资源，主动作为，争相进军电力、能源、化工、冶炼等多元业务领域。加快推进公司“屋面系统”全球产业化布局发展，积极拓展海外投资布局，培育高质量发展新引擎。

2021年，中材建设快速实现属地化经营，提高公司的市场竞争能力，增强公司发展活力，确保国际业务持续、健康长效发展。建立健全属地化公司管理制度，发展中国建材集团相关产业投资进度；通过搭班子、建机构、置资产组建属地化公司经营团队，管理人员国际化、属地化，逐步实现本土化经营管理；加大国际化人才的整合和培养力度，以五大区域中心为依托，探索建立区域化人力资源管理中心，打造聚集人才的强磁场；大力培育区域内产业的新增长点；积极探索发展国际合作业务，努力打造两家亿级利润平台、五大区域中心，形成多点支撑、多业并举、多元发展的产业新格局。

In 2021, CBMI Construction adheres to three main businesses of cement engineering, diverse engineering, and industrial development, and embraces the development direction of internationalization, digitization, localization, diversification and industrialization. With the general objective of high quality development and starting from the establishment of "dual circulation" development pattern, CBMI Construction keeps the double development engines of three refined management, reform and innovation, holds a general picture and conducts an intensive study into "14th five-year plan" preparation. Besides, the company scientifically advances pandemic prevention and control, and safety production, fully implements "six stabilization" and "six security" tasks, and ushers in a good start and pattern for the "14th five-year plan" by high quality development.

In 2021, CBMI Construction deeply advances an all-round, multi-level and strategic partnership with important customers in key areas, and attaches importance to the domestic and foreign complementary new development advantages. The company continues to consolidate main businesses, give play to potential market and deepen "cement engineering+". The company starts from products featuring "short construction period, low cost and rapid benefit", fosters modular powder grinding station market and builds characteristic new brand and new service advantage. The company actively explores a diverse business market. According to three principles of business, customer and market relevance, the company coordinates and streamlines advantageous enterprise resources and actively marches into diverse business fields of electricity, energy, chemical and metallurgy. The company speeds up the movement towards the global industrialization pattern of "roof system", actively expands overseas investment pattern and cultivates the new engine of high quality development.

In 2021, CBMI Construction rapidly achieves the localized operation, enhances market competitiveness and increases development vitality to safeguard sustainable, healthy and long-term development of international business. CBMI Construction establishes and improves localized corporate management system and emphasizes investment progress of relevant industries of China National Building Materials Group Corporation. CBMI Construction sets up relevant departments, local operation team of asset development, recruits international and local management staff and phases in localized business operation. The company speeds up integration and nurturing of international talents. Support by five regional centers, the company attempts to establish the regional HR management center and builds a strong magnetic field to amass talent. The company forcefully cultivates new growth points of regional industries; actively explores development of international cooperation business, strives to build two hundred million level profit-making platforms and five regional centers, forming a new pattern of multi-point support, parallel development of many businesses and diverse development.

管理提升
Management enhancement

2021年，中材建设按照“坚持效率优先、效益优先、坚持主业突出专业化，坚持精细精简精干，坚持“价本利”经营理念，坚持一线作风，坚持整合优化，坚持数字化，坚持战略、市场、资金、成本、效益的投资五要素，坚持党建经营两手抓”的管理原则。通过精细化手段促进项目毛利率持续提升。加强业务链精细化管理，深入实施对标世界一流管理提升行动，逐步建立差异化、科学化、精准化的管控模式和运营机制，持续提升运营管理效率效益。狠抓基础管理，加强财务管理，构建一体化财务管控体系，提升价值创造能力；加强人才队伍建设，做好人才规划的动态调整，加快青年人才培养步伐；加强信息化管理，促进业务与信息化的深度融合；加强风险管理，练好内功，完善防控体系，提高重大风险化解能力；加强安全管理，筑牢安全生产、生态环保防线，夯实公司高质量发展基础保障。

In 2021, CBMI Construction upholds a number of principles, such as priority of efficiency and interest, professional main businesses, refined and simple management, "price-cost-profit" business idea, frontline style, integration and optimization, digitization, five investment elements of strategy, market, fund, cost, and interests and parallel importance to Party building and operation. Through refined means, the company promotes growth of gross margin. The company enhances refined management of business chain, deeply implement the campaign to be aligned with the world’s first-class management, gradually establish the differentiated, scientific and precise management control mode and operation mechanism and continuously enhance business management efficiency and interest. The company attaches importance to fundamental management, finance management, establish integrated finance management control system and enhance value creation capability. The company strengthens talent building, attaches importance to dynamic adjustment of talent planning and speed up cultivation of youth talents. The company consolidates informationization management, promote deep integration of business and informationization; consolidates risk management, improves prevention and control system and enhance capability to resolve major risks; heighten safety management, consolidate the defense line of safety production, ecological protection and provide a basic security for the company’s high-quality development.

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

2021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 2021, 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2020年社会责任报告》第三方评价

2020年，面对复杂的国际形势和新冠疫情对全球经济和社会发展的冲击，中材建设有限公司作为一家主要业务集中在海外的公司，积极践行联合国全球契约的十项原则，在不利的经营条件下，仍然取得了较好的经济成绩，在环境和社会发展方面也有着良好表现。通过《中材建设有限公司2020年社会责任报告》，我们可以了解公司在履行社会责任的良好实践，以及在经济、环境和社会等领域可持续发展工作的各项成果。报告参考联合国全球契约组织年度进展报告指南等文件编写，满足利益相关方对企业了解需求，展现了一家国际化企业的高透明度以及与利益相关方积极沟通的良好意愿。

中材建设有限公司在经营过程中，积极落实联合国全球契约“以原则为基础的运营”理念，并与自身实践相结合发展出“为当地经济做贡献、与当地企业合作、与当地人民友好相处”特色原则。面向国际化、数字化、属地化、多元化、产业化五个方向，在认真履行社会责任方面作了大量卓有成效的工作。通过属地化经营，在做好顶层设计的基础上，积极进行文化沟通，实现了供应链、价值链的融合，做到了与海外伙伴长久合作、互利共赢，为推动当地可持续发展，打造人类命运共同体做出积极贡献。

中材建设高度重视社会责任制度体系建设，通过加强质量、环境、职业健康安全三大体系建设，为企业奠定合规管理、节能环保、安全生产制度基础，不仅强化了主营业务的盈利能力，不仅做出经济贡献，也构筑了关爱员工与社区的企业文化和经营氛围。同时，中材建设重视创新驱动、改革赋能发展，通过技术研发与创新，推进企业数字化智慧化经营，在降低能耗、减少污染气体排放、废弃物循环利用等方面取得突出的成效。

希望中材建设有限公司在未来的发展过程中，进一步对标联合国可持续发展目标（SDGs），通过创新引领，开展更多可持续发展实践，特别是结合中国“双碳目标”，在应对气候变化方面采取更多措施，为中国和世界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 2020

Third party evaluation

In 2020, against complex international situation and impact of COVID-19 on the global economic and social development, CBMI Construction Co., Ltd., a company mainly focusing on overseas business, actively implemented the Ten Principles of the United Nations Global Compact. Under the adverse operation condition, the company still got better economic performance, and behaved well in environment and social development. According to the 2020 Social Responsibility Report of CBMI Construction Co., Ltd., we may know the company’s good practice to fulfill social responsibilities, as we as its achievements on sustainable development in fields such as economy, environment and society. The report is composed by referring to the document such as the Yearly Progress Report Guideline of the United Nations Global Compact, meeting the stakeholders’ request to understand the company. The report showcases the good will of an international company to actively communicate with stakeholders in a highly transparent manner.

During operation, CBMI Construction Co., Ltd. actively put in place the United Nations Global Compact’s principle-based operation tenet, and formulated the typical principle of contribution to local economy, cooperation with local enterprises and good relationship with local dwellers in line with its own practice. In terms of internationalization, digitization, localization, diversification and industrialization, the company earnestly fulfilled social responsibilities and did plenty of effective work. Through localized operation and based on top design, the company actively conducted cultural communication and achieved integration of supply chain and value chain. The company adhered to long-term cooperation, reciprocal benefit and win-win with its overseas partners, and made active contribution to local sustainable development and building of community with a shared future for mankind.

CBMI Construction attached great importance to the building of the social responsibility system as well as quality, environment and occupational health safety. The company focused on the sound foundation for compliance, energy conservation, environment, and safety production system. The company not only consolidated the profit-making capacity of main business, makes economic contribution, but also created an atmosphere of caring for employees and communication. Meanwhile, CBMI Construction emphasized innovation and empowering development by reform. Through technology development and innovation, the company advanced corporate digitalized and intelligent operation and achieved outstanding performance in terms of energy reduction, less emission and recycling.

In the future development, it’s hoped that CBMI Construction Co., Ltd. will further embrace the Sustainable Development Goals (SDGs). Led by innovation, CBMI Construction can conduct more sustainable development practice. Especially in line with Chinese "carbon neutrality" and "emission peak", we hope that the company can have more safeguards against climate change and make greater contributions to the Chinese and world’s sustainable development.

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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