

Cement Consultancy Associates

Company & Senior Associates' Reference List

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CEMENT AND LIME PROJECTS

YEMEN – GREENFIELD CEMENT PLANT (PRIVATE COMPANY)

CCA is the consultant and project manager for a 3,000 tpd greenfield cement plant built as a privately financed turnkey investment with equipment sourced from China. The main contractor is Chinese and the project was designed for a 'fast track' result, permitting the owner to establish a foothold in the cement market in record time. CCA was involved throughout the project, from initial feasibility studies right through to plant installation, commissioning and start-up.

UNITED ARAB EMIRATES – LIME PLANT PROJECT

CCA were engaged as an independent international consultant to review the market study and business plan prepared for the establishment of a new lime plant in Abu Dhabi. Tasks involved determining the current viability of the proposal and preparing a revised business plan for the project.

YEMEN – WET TO DRY PROCESS CONVERSION AND NEW KILN LINE (YEMEN GOVERNMENT)

An 800 tpd wet process to dry process conversion plus 2,500 tpd new kiln line was required for an existing cement plant. CCA provided complete consulting engineering and project management services for this project involving a new kiln line with a nominal 2,500 tpd clinker capacity.

ALBANIA – CONVERSION OF WET PROCESS TO DRY PROCESS PLANT (SEAMENT)

Project engineering services for converting and expanding a 600 tpd wet kiln process plant to a 2,000 tpd dry precalciner plant. The scope of services involved pre-feasibility and feasibility studies, project financing arrangements and detail engineering.

A separate raw material and site investigation project was carried out in conjunction with the project engineering activity. Supplementary tasks involved preparing Environmental Assessments and developing an Environmental Management Programme.

Management and project staff recruitment and training programmes were also undertaken.

YEMEN – MULTIPLE FUEL PROJECT (YEMEN GOVERNMENT)

CCA carried out feasibility studies into the use of coal, gas and alternative fuels to replace heavy fuel oil for kiln firing in three existing cement plants, and issued tender documents for a coal importation facility at port and coal preparation plant at two factories, and is providing management and supervisory services for implementation.

LEBANON – CONVERSION OF WHITE TO GREY CEMENT PLANT (MIDDLE EAST CEMENT)

Consulting services were supplied by CCA for developing the conversion and expansion concept for changing the kiln process from a 500tpd white clinker kiln line to a 1500tpd grey clinker kiln line, with associated changes to raw milling and cement milling arrangements. Tasks involved raw material investigations, quarry and crushing methods, and blending and homogenising investigations integral to the process change. Also included were design and specification of the kiln and mill equipment, project implementation arrangements, economic appraisals, project monitoring and reviewing contractor performance.

MALAYSIA – GREENFIELD 1.2M TPA CEMENT PLANT (PAHANG CEMENT)

Consultancy supplied to Owner of new cement plant built on a greenfield site as a turnkey contract by a consortium of three international contractors.

The initial engineering phase involved supervising and reviewing engineering design, ensuring the contract terms were strictly applied, assessing local fabricators and giving ongoing training to local engineers. As chief resident engineer, the consultant monitored progress and co-ordinated and directed the contractor's activities during the construction, start-up and acceptance phase.

UNITED KINGDOM – MAJOR WORKS EXPANSION: 1.3M TPA CONVERSION PROJECT (PRIVATE COMPANY)

The scope of work included co-ordinating the technical aspects of the major works upgrade of a new 1.3m tpa cement plant, retaining wet process preparation for a state-of-the-art kiln process based on an innovative crusher-drier/preheater configuration. The rotary kiln, 4.6m diameter x 62m long, is rated for a production of 3,800 tpd clinker. The two-stage, single stream preheater incorporates the multi-stage combustion calcining process with pulverised fuel being injected directly into the calciner.

UNITED ARAB EMIRATES – GREENFIELD 1M TPA CEMENT PLANT (ABC)

Consultants were asked to advise a major international bank on the proposed new plant following a request for financing from the project sponsors. Raw material investigations, general technical specifications, capital costs, the market and the production costs were analysed and recommendations were made for changes to the scope of the equipment supply so that the project would meet the investor's criteria. Project agreements and definition of responsibilities between various contractors were established to ensure smooth project execution.

TANZANIA – REHABILITATION PROGRAMME FOR CEMENT SECTOR (MINISTRY OF INDUSTRIES AND TRADE)

Project directors managed the implementation of a multi-million 5-year rehabilitation and expansion project for the cement sector. Consultants were involved in the overall formulation, the preparation of annual operational and multi-annual indicative programmes, project identification, project execution and evaluation, and on-going monitoring.

PHILIPPINES – REHABILITATION PROGRAMME, CEMENT PLANT (DEVELOPMENT BANK)

Project manager in charge of the assessment and specification of machinery and equipment for rehabilitation and expansion; cost/benefit analysis of wet and dry process systems and negotiations for project funding.

ALBANIA – PLANT EXPANSION (ELBASAN CEMENT FACTORY)

Project consultant provided engineering and consulting services for a plant expansion involving the installation of a 2,500 tpd precalciner kiln line on an existing site. Kiln firing is with petcoke and the project scope includes a coal/petcoke reception facility, stockpiling machinery, coal/petcoke blending stacker and reclaimer equipment.

PHILIPPINES – OIL TO COAL CONVERSION PROJECT (PCIA)

Our consultants were engaged in the government's oil to coal conversion project for the simultaneous coal/petcoke firing conversion of seven cement companies throughout this Asean archipelago. The project embraced the specification and implementation of indirect and semi-indirect coal drying and firing plants for both wet and dry process kilns.

Nine coal milling plants with an aggregate capacity of 135 t/hour were installed in seven cement plants having an aggregate cement production capacity of over 4 million tpa.

AUSTRALIA – RAW MILL CONVERSION (COCKBURN LIME)

Turnkey project for the conversion of existing raw material ball mill for coal firing of preheater lime kiln.

LEBANON – COAL MILL AND KILN BURNER (MIDDLE EAST CEMENT)

Consultancy services for vertical coal mill and kiln burner supply and operation.

NORWAY – COAL UNLOADER AND TRANSPORT (NORCEM CEMENT)

Specification and supply of coal unloader and transport systems.

AUSTRALIA – COAL GRINDING AND DRYING (COCKBURN CEMENT)

Upgrading the indirect coal firing system with improved coal grinding and drying system.

UNITED KINGDOM – CEMFUEL PRODUCTION

Establishing liquid hazardous waste production company on five separate plant sites.

SCANDINAVIA – WASTE FUEL PRODUCTION (KILN FUEL COMPANY)

Establishing waste fuel production company and fossil fuel trading company.

UNITED KINGDOM – KILN FIRING (CASTLE CEMENT – NORTHERN REGION)

Kiln firing using hazardous liquid waste.

UNITED KINGDOM – ALTERNATIVE FUEL PROJECT (CONFIDENTIAL)

Alternative fuel project including vertical coal mill department, liquid hazardous waste fuel, paper and plastic waste fuel, and burner.

UNITED KINGDOM – 750,000 TPA KILN LINE (PRIVATE COMPANY)

An existing plant comprising wet kilns and a long, dry kiln was modernised by the installation of a suspension preheater /pre-calciner kiln line and peripheral process equipment within the existing plant site. Particular features of the project included keeping the existing plant in production for the maximum possible time to minimise lost production, re-using and upgrading existing infrastructure and plant where practicable, renovating and re-assembling a redundant rotary kiln shell from another site, and full flexibility of process design to facilitate the possibility of using alternative fuel sources.

EGYPT – DETAILED DESIGN AND WORKSHOP DRAWINGS (MISR BENI SUEF CEMENT)

Detailed design and workshop drawings were completed for the steel structures and steel parts of a new kiln line being supplied by Fuller USA. Equipment design included preheater tower, conditioning tower, kiln hood, tertiary air duct, expansion joints, bag filters and platforms, ducts, pipes and chutes. Total steel was 4500 tonnes.

Project specifications were produced for manufacturing, painting, erection and quality control of supplies. Technical assistance was provided for equipment erection.

EGYPT – ENGINEERING DESIGN (MISR BENI SUEF CEMENT)

Consultants designed utility networks for compressed air, water, fuel oil and natural gas, and provided technical assistance for equipment erection.

IRAN – TECHNOLOGICAL AND ENGINEERING DESIGN (ESTAHBAN CEMENT)

Design and engineering consultancy for a capacity increase from 50 tph to 85 tph of raw material preparation. VAV Engineering developed an innovative concept for achieving a mill capacity increase by introducing a pre-grinding system with a hammer mill to the milling

circuit. Separate gas flows were introduced for the mill and hammer mill. The installation achieved an output of 90 tph when commissioned.

IRAN – PROCESS AND ENGINEERING DESIGN (ESTAHBAN CEMENT)

Technological design and engineering for a capacity increase to an existing cement grinding department. The mill capacity was increased from 42 tph to 52 tph by modifying the mill linings and the high efficiency separator, and dedusting improvements.

Technical assistance was provided for start-up.

LIBYA – DETAILED DESIGN AND ENGINEERING (ARAB UNION CEMENT COMPANY)

Detailed design and workshop drawings were completed for the steel structures and steel parts of a new plant being supplied by F.L. Smidth, Denmark. Equipment design included Filtrax filters, jet pulse filters, apron feeders, expansion joints, belt conveyors and platforms, ducts, pipes and chutes. Total steel was 1200 tonnes.

NIGERIA – DETAILED DESIGN AND ENGINEERING (OBAJANA CEMENT)

Detailed design and workshop drawings were completed for the steel structures and steel parts as a sub-contractor to F.L. Smidth, Denmark. Total steel was 1000 tonnes.

NIGERIA – DETAILED DESIGN AND ENGINEERING (EVEKORO CEMENT)

Design and engineering drawings produced for the fabrication of main drive parts, and access and support platforms.

PORTUGAL – DETAILED DESIGN AND ENGINEERING (CIMPOR CEMENT)

Design and engineering for plant dust collectors.

PORTUGAL – ENGINEERING DESIGN (SECIL CEMENT)

Detailed mechanical and structural design of stacker and reclaimer assemblies.

SAUDI ARABIA – DETAILED DESIGN AND ENGINEERING (BISHA CEMENT)

Design and engineering for plant dust collectors.

ROMANIA – CEMENT PLANT MODERNISATION (CAMPULUNG)

Detailed design and engineering was undertaken for the modernisation of the Holcim plant at Campulung. The tasks involved the design of mechanical equipment, civil works, compressed air network, and access roads.

ROMANIA – TECHNICAL ASSISTANCE (COMET TECUCI)

Technical assistance and manufacturing assistance for the production of stacker and reclaimer sub assemblies made to Claudius Peters designs.

VENEZUELA – STRUCTURAL STEEL DETAILED DESIGN (LOMA DE NIQUEL)

Detailed design and workshop drawings were produced on behalf of ABB for steel structures and connection parts. The steel quantity involved totalled 5000 tonnes.

VENEZUELA – DETAILED DESIGN AND ENGINEERING (CEMENT ANDINO)

Design and engineering for plant dust collectors.

UNITED KINGDOM – SAND MILLING INSTALLATION

Design, procurement, installation and commissioning of ball mill to prepare fine sand slurry to improve burning characteristics of kiln raw feed.

UNITED KINGDOM – SEMI-WET PILOT PLANT

Installation, operation and evaluation of pilot plant investigating the feasibility of converting wet process kiln lines to semi-wet operation using pressure filtration, nodulisation and preheating system.

UNITED KINGDOM – BLENDING CEMENT PLANT

Design and installation of blending plant to weigh, proportion and pack blend of OPC and PFA.

UNITED KINGDOM – DECOMMISSIONING OF SLAG GRINDING PLANT

Planning and supervision of match-marking and orderly dismantling of closed circuit slag grinding plant incorporating a roll press and hot-gas generator. Specification and supervision of protection and plant storage for subsequent re-installation as cement milling plant at alternative location. Design of new cement milling system and procurement of equipment, overhaul services and additional machinery.

AUSTRALIA – ELECTRICAL, CONTROL, MACHINE DRIVE EQUIPMENT (COCKBURN LIME)

Design, specification and procurement of all electrical, control, machine drive equipment for a 1000 t/day 4 stage preheater lime kiln.

CHINA – ELECTRICAL, CONTROL, MACHINE DRIVE EQUIPMENT (DAVY INTERNATIONAL)

Design and specification of all electrical, control, and machine drive equipment for five lime/dolomite rotary kiln plants.

UNITED KINGDOM – RAW MILL RETROFIT (CASTLE CEMENT – KETTON)

Design, sale, and specification of new roller mill department on existing kiln line on a turnkey basis.

UNITED KINGDOM – TURNKEY BID PROCESS (CASTLE CEMENT – KETTON)

Management of turnkey bid process for 1Mt/year production line from crusher to packing plant.

UNITED KINGDOM – BID PROCESS (BLUE CIRCLE – OXFORD)

Management of mechanical and electrical supply and erection bid process for 1Mt/year production line from quarry to packing plant including rail handling equipment.

IRELAND – GREENFIELD PRODUCTION FACILITY (SEAN QUINN QUARRIES)

Project and site management, design, specification, procurement, construction, erection, testing and setting to work of a complete greenfield production facility using direct labour.

NIGERIA – ELECTRICAL SUPPORT, KILNS 5 AND 6 (NIGERCEM)

Electrical support during construction and commissioning, including problem solving, procurement and spare part recommendation.

NIGERIA – QUARRY CRUSHER AND SLURRY PLANT, NGBO QUARRY (NIGERCEM)

Design, specification, procurement, installation and commissioning of new quarry crusher and slurry plant.

NIGERIA – 2 X 3.6 MW POWER PLANT (NIGERCEM)

Design, specification, procurement, installation and commissioning of new captive installation including black start facility.

NIGERIA – 132 KV POWER SUPPLY (NIGERCEM)

Design and specification of new intake for the works, reinforcing the supply to improve reliability.

NIGERIA – OIL FIRING SYSTEMS (WAPCO EWEKORO)

Design and supply of new oil firing systems.

NIGERIA – DESIGN AND PROCUREMENT (WAPCO SHAGAMU)

Design and procurement of electrical equipment and drive systems for production lines 1 and 2.

NIGERIA – RAW MILL 3 (WAPCO SHAGAMU)

Design, sale, specification, procurement, and project management for 2000 tph mobile crusher, raw mill and appurtenant equipment.

UNITED KINGDOM – ELECTRICAL DESIGN, KILN 7 (CASTLE CEMENT – RIBBLESDALE)

Design, specification and procurement of all electrical, control, machine drive equipment.

UNITED KINGDOM – PROJECT MANAGEMENT, KILN 7 (CASTLE CEMENT – RIBBLESDALE)

Project management of turnkey 750,000 t/year precalciner clinker production facility from site establishment through to takeover by client, including operation for 12 months.

UNITED KINGDOM – PRECALCINER CLINKER PRODUCTION (BLUE CIRCLE – CAULDON)

Project management of supply of 750,000 t/year precalciner clinker production facility.

UNITED ARAB EMIRATES – PLANT SUBSYSTEMS (NATIONAL CEMENT – DUBAI)

Design, specification, supply and commissioning of various plant subsystems.

UNITED KINGDOM – PROJECT MANAGEMENT (CASTLE CEMENT)

Project management for a 1.3 million t/year upgrade project.

IRAN – UPGRADE (ESTAHBAN CEMENT PLANT)

Raw materials and cement grinding department capacity upgrade.

PAKISTAN – PROCESS DESIGN (SAADI CEMENT PLANT)

Process design and equipment sizing, layout for 1600 tpd preheater kiln department.

PAKISTAN – PROCESS DESIGN (PAKLAND CEMENT PLANT)

Process design and equipment sizing, layout for 2000 tpd preheater kiln department.

ROMANIA – PROCESS DESIGN (CAMPULUNG CEMENT PLANT)

Process design and equipment sizing, layout for preheater upgrade.

IRAN – PROCESS DESIGN (BOJNURD CEMENT PLANT)

Process design and equipment sizing, layout for 2500 tpd preheater kiln department.

ROMANIA – PROCESS DESIGN (HOGHIZ CEMENT PLANT)

Process design and equipment sizing, layout for clay dryer upgrade.

ROMANIA – PROCESS DESIGN (FIENI CEMENT PLANT)

Process design and equipment sizing, layout for new coal dryer.

OTHER PROJECTS

UNITED KINGDOM – DESULPHURISATION PLANT (BSC)

Design, manufacture and installation of calcium carbonate inject lance system for rail mounted torpedo vessels.

UNITED KINGDOM – FILTERPRESS CONSTRUCTION AND TRIALS

Design, manufacture and installation of mobile test rig and subsequent site-based testing for municipal waste dewatering process.

UNITED KINGDOM – HORWICH BIOMASS POWER PLANT

Design, specification and planning for 25 MW wood chip gasification power station.

UNITED KINGDOM – MIDDLETON WASTE TO ENERGY PLANT

Design, specification and planning for 10 MW municipal waste gasification power station.

UNITED KINGDOM – EFW HEAT GENERATOR

Development to practical product of municipal waste based heat generator for process heat.

UNITED KINGDOM – TECHNICAL EVALUATION AND DUE DILIGENCE (PRIVATE CLIENT)

Acquisition process for a process and engineering company including technical evaluation and due diligence.

IRAQ – ROTARY KILN PHOSPHATE BENEFICIATION (AL KAIM FERTILISER PLANT)

Design, specification and procurement of all electrical, control, machine drive equipment for two rotary kiln phosphate beneficiation lines.

YUGOSLAVIA – ROTARY KILN PHOSPHATE BENEFICIATION (KOSOVO ORE BENEFICIATION PLANT)

Design, specification and procurement of all electrical, control, machine drive equipment for rotary kiln ore beneficiation line.

UNITED KINGDOM – COPPERMILLS TREATMENT WORKS (THAMES WATER)

Electrical installation supervision and commissioning of 3.2m³/s water treatment plant including 5.2 MW power station and computer based control system.

UNITED KINGDOM – COPPERMILLS WELL (THAMES WATER)

Electrical design, specification, procurement, installation, and commissioning of well extraction and treatment plant.

UNITED KINGDOM – COPPERMILLS RAW WATER FLOW MEASUREMENT (THAMES WATER)

Design, manufacture, installation and commissioning of 2 x 2.8m diameter low head partial fill flowmeters with <1% accuracy.

UNITED KINGDOM – COPPERMILLS SUPPLY-SIDE AUTOMATIC CONTROL (THAMES WATER)

Design, specification, procurement, installation, and commissioning of multi-site distributed control system for automatic control of plant output.

UNITED KINGDOM – CROYDON WATER UNDERTAKING WATER SUPPLY

Electrical design, specification, procurement, installation, and commissioning of treated water delivery system including automatic pumping station and multi-site distributed control and monitoring system.

UNITED KINGDOM – SE LONDON WELL STATION AUTOMATION

Design, specification, procurement, installation, and commissioning of various well extraction and treatment plant automation.

UNITED KINGDOM – SUNDRIDGE EXTRACTION AND TREATMENT WORKS

Electrical design, specification, procurement, installation, and commissioning of well extraction and treatment plant.

UNITED KINGDOM – DOLLIS HILL RESERVOIR PRESSURE REGULATION SCHEME

Electrical design and specification of pressure control of service reservoir.

UNITED KINGDOM – HADLEY ROAD EXTRACTION AND TREATMENT WORKS

Electrical design, specification, and procurement of well extraction and treatment plant.

UNITED KINGDOM – KEMPTON PARK TREATMENT PLANT REMODELLING

Electrical design, specification, and procurement of major treatment works control and instrument system.

UNITED KINGDOM – STORAGE RESERVOIR PUBLIC ACCESS

Design, specification and procurement of security systems and non-polluting fishing boats for use public use.

UNITED KINGDOM – TREATED WATER RETICULATION CONTROL

Strategic design of hierarchical control system for London's water supply system and implementation of trial scheme.

UNITED KINGDOM – HORNSEY TRANSPORT DEPOT

Electrical design, specification, procurement, installation, and commissioning of major 6-bay 1160 m² transport depot.

UNITED KINGDOM – HEAD OFFICE EXTENSION

Electrical design, specification, procurement, installation, and commissioning of all services for 1400 m² offices.

UNITED KINGDOM – CIVIL DEFENCE

Electrical design, specification, procurement, installation, and commissioning of various installations.

UNITED KINGDOM – CRINGLE DOCK MSW TRANSFER STATION

Operational improvements to vehicle control and unloading systems, waste crushers, and barge loading plant.

UNITED KINGDOM – EDMONTON WASTE TO ENERGY PLANT

Electrical improvements of waste handling and combustion processes.

UNITED KINGDOM – BEDDINGTON WASTE FUEL PREPARATION PLANT

Electrical design and specification of major waste to fuel processing and transfer plant.

UNITED KINGDOM – SOUTH LONDON MSW TRANSFER SYSTEM

Electrical design, specification, and procurement of plant and equipment for five waste transfer stations built to feed Beddington Waste Fuel plant.

UNITED KINGDOM – CREMORNE WHARF WASTE TRANSFER STATION

Electrical design, specification, and procurement of plant and equipment for waste compaction and transfer station built in a very sensitive city area.

UNITED KINGDOM – NEWHAM WASTE TRANSFER STATION

Electrical design, specification, procurement installation and commissioning for major waste compaction and transfer station.

UNITED KINGDOM – BRENTFORD WASTE TRANSFER STATION

Electrical design, specification, procurement, installation and commissioning for major waste compaction and transfer station.

UNITED KINGDOM – HILLINGDON WASTE TRANSFER STATION

Electrical design, specification, and procurement for major waste compaction and transfer station.

UNITED KINGDOM – KING GEORGE V DOCK FLOOD GATE

Electrical design, specification, and procurement for important flood gate protecting the dock system.

UNITED KINGDOM – SLAG GRINDING (CIVIL & MARINE – THURROCK)

Design, and specification of all electrical, control, machine drive equipment for first slag grinding plant in UK.

UNITED KINGDOM – KILN LINE (GR STEIN)

Design, specification and procurement of all electrical, control, machine drive equipment for 300 t/day specialised rotary kiln for refractory clay calcining.

UNITED KINGDOM – KILN LINE (GR STEIN)

Design specification contract and site management of all erection and commissioning functions.

MANAGEMENT/BUSINESS SYSTEMS

EAST AFRICA – DUE DILIGENCE (CONFIDENTIAL CLIENT)

Technical due diligence study for privatisation of state-owned cement company.

EUROPEAN UNION – NEW COMPANY (CONFIDENTIAL CLIENT)

Consulting engineering, procurement tasks and assistance with permit procedures for the entry of a new company into the cement supply sector. Establishment of a new clinker grinding plant and support services.

NIGERIA – PRE-FEASIBILITY STUDY, FINANCE ARRANGEMENT (EMINENT CEMENT)

Preparing project pre-feasibility study for re-activating old cement works together with the provision of a new fully integrated 1.5m tpy production plant.

CCA are providing consulting engineering services and project management services to local clients and assisting with the arrangements for multi-layer project financing.

AZERBAIJAN – INDUSTRIAL PRIVATISATION PROGRAMME (IFC)

Leaders responsible for developing feasibility study for privatised cement company; the project involved an assessment of plant operations with regard to raw materials, product quality, operating conditions and the physical condition of machinery and equipment. The study covered compliance with standards, rules and regulations concerning environmental protection and occupational safety and health, identification of priority measures for investment, re-organisation, and formulating the development strategy.

IRELAND – TECHNICAL REVIEW, GREENFIELD 600,000 TPA CEMENT PLANT (LAGAN CEMENT)

Technical review and the identification of potential specific risks in respect of a new 1800 tpd kiln on-going project on a greenfield site. The scope of services addressed raw materials, planning approval and operational licenses, building contracts and equipment sourcing contracts, specifications, plans and drawings, site and ground conditions, design, construction and commissioning programmes, insurance, key man risks, and operational variables.

ANGOLA – CONVERSION OF SLURRY MILL TO CLOSED CIRCUIT CEMENT MILL (SCANCEM)

The project involved adding cement-grinding capacity by the conversion of an existing slurry mill to a 120 t/h closed circuit cement mill.

The 1.4m diameter x 4.6m long mill is installed with a 4000 kW central drive arrangement. The equipment supply for the conversion included clinker reception from the port stockpile,

gypsum transport to the installation from the present gypsum feed arrangements, mill rehabilitation and modifications, and finished product transport to the existing storage silos. A facility to feed the converted mill with clinker from the kiln lines was also required.

Pre-project services provided included assessment of the suitability of converting the existing raw mill into a closed circuit cement mill, including comparison of investment costs with an alternative solution of a new grinding mill system. The investment assessment included all costs (civil, mechanical, electrical/instrument/process control, training etc) and also evaluated operational constraints.

JAMAICA – STRATEGIC OPERATIONAL PLAN (IFC)

Project manager in charge of study to define the future operational strategy for a cement company in the Western Caribbean including a capacity expansion phase to increase output to 1m tpa and the design and development of distribution terminals within the CARICOM region.

UNITED KINGDOM – TRANSPORTATION STUDY (PRIVATE COMPANY)

Consultants to a multinational corporation in respect of developments in the UK transport sector for raw materials and market opportunities in road and rail transport arrangements. The project included the development of a rail-based logistics solution for introducing new raw materials from distant sources.

INDONESIA – RAW MATERIAL INVESTIGATION

Consultants to an Investment Bank for the review of geological fieldwork and the interpretation of the chemical analysis of material samples obtained to provide a recommendation for cement manufacturing.

UNITED KINGDOM – STUDY OF STAFFING LEVELS AND REMUNERATION SCHEMES (PRIVATE COMPANY)

Team leader reviewing working practices of plant, transport and administrative personnel at seven cement works, and introducing changes to establish a stable income plan for all employees.

ANGOLA – MANAGEMENT DEVELOPMENT PLAN, CEMENT COMPANY (ADB)

Team leaders in charge of a team preparing a management plan and a management contract for technical assistance. The project involved identifying strengths and weaknesses in the existing organisational structure, production planning and control procedures, manpower development and sales and marketing facilities, preparing a short- and medium-term development plan and negotiating a management contract.

TANZANIA – CEMENT INDUSTRY RATIONALISATION (MINISTRY OF INDUSTRIES AND TRADE)

Project co-ordinator responsible for a multi-disciplinary planning team preparing an economic recovery and integration programme for the cement and other non-metallic minerals sector. The study involved sector analyses, project evaluation and the formulation of a five-year investment programme based on donor's contributions.

UNITED STATES OF AMERICA – LOGISTICS STUDY FOR REFRACTORY MANUFACTURER (PRIVATE COMPANY)

Consultants to determine the logistics applicable for developing a new limestone deposit and to specify and cost handling and transport equipment requirements depending on the process technology adopted.

UGANDA – MODERNISATION OF THE CEMENT INDUSTRY (EIB)

Team leader of a study to examine the structure and performance of the cement industry and to prepare a programme for management and technical assistance.

IRELAND – RECLASSIFICATION OF INDUSTRIAL MINERALS PROGRAMME (PRIVATE COMPANY)

Adviser to a limestone quarrying company on the impact that changes in the Government's scheduled mineral classifications would have on its environmental compliance and monitoring.

JAMAICA – ENVIRONMENTAL AUDIT (CARIBBEAN CEMENT COMPANY)

An environmental audit was carried out at this cement works under the supervision of the Consultant in response to a request from the IFC. The cement company was firing its kilns with a coal/petcoke mixture derived from US sources. The project involved the baseline study, mitigation measures, an action plan and the formulation of a comprehensive environmental management plan.

UNITED KINGDOM – TECHNICAL AUDIT AND MANUFACTURING PROCESS REVIEW (RUGBY CEMENT)

An extensive technical audit and manufacturing process review of five cement works of this major cement producer was undertaken to examine its production base. The Rugby Group cement plants pioneered the use of 'green delayed' petcoke and 'fluid' petcoke and its application for cement manufacture.

Five plants were audited with an aggregate cement capacity of 2,570,000 tpa.

MALAYSIA – INERT GAS INDIRECT COAL FIRING PROBLEM (TASEK CEMENT)

Consultant investigated the problems of an inert gas indirect coal firing installation and made recommendations for modifications to overcome the problems.

IRELAND – TECHNICAL REVIEW (LAGAN CEMENT)

A technical review of the cement works project was performed for the banking institutions who were part funding the construction, installation and commissioning of a greenfield 500,000 tpa cement plant. The review procedure specifically addressed the potential risks of the project in respect of the environment and the emissions to air derived from kiln firing practices.

UNITED KINGDOM – KILN FUEL AND CARBON TRADING (CASTLE CEMENT – SOUTHERN REGION)

Development of kiln fuel and carbon trading strategies and implementation.

UNITED KINGDOM – PROFUEL PRODUCTION

Development of paper, plastics, timber and textile preparation plant for use in kiln firing applications.

EUROPEAN UNION – ALTERNATIVE FUEL STUDIES

Investigation into meat and bone meal storage and kiln firing application.

AZERBAIJAN – INDUSTRIAL PRIVATISATION PROGRAMME (IFC)

Leaders were responsible for developing a feasibility study for a privatised cement company. The project involved assessing plant operations with regard to raw materials, product quality, operating conditions and the physical condition of machinery and equipment. The study covered compliance with standards; rules and regulations concerning environmental protection and occupational safety and health; identification of priority measures for investment; reorganisation; and formulating the development strategy.

UNITED ARAB EMIRATES – GREENFIELD 1M TPA CEMENT PLANT (ABC)

Consultants advised a major international bank on a new plant proposal following a request for financing from the project sponsors. Raw material investigations, general technical specifications, capital costs, market and production costs were analysed and recommendations made for changes to the scope of the equipment supply to be made so that the project would meet the investors' criteria. Project agreements and definition of responsibilities between various contractors were established to ensure smooth project execution.

SENEGAL – REVIEW, CIMENTS DU SAHEL (ISLAMIC DEVELOPMENT BANK)

A review of the economic, financial, technical and administrative aspects of the feasibility study documentation for the proposed 640,000 tpa cement plant at Kissane in the Republic of Senegal was undertaken. The bank commissioned the review so an informed decision on its participation in financing the project could be made.

EGYPT – ACQUISITION REVIEW (ACTIS (AFRICA) LTD – FORMERLY THE COMMONWEALTH DEVELOPMENT CORPORATION)

CCA provided an independent opinion to confirm the attractiveness of the ASEC Cement Company, Egypt, as an acquisition target for major global players, and reviewed the findings of a technical and environmental due diligence undertaken.

ALBANIA – PURCHASE OF FUSHE-KRUJE CEMENT COMPANY

Project leader for the holding company that successfully bid in international tender to acquire the assets of this cement company under a government privatisation programme. Appraisal, tendering and negotiations were conducted on behalf of the client. The condition of the plant and production equipment was assessed and estimates of investment required in machinery and infrastructure were made. An operating concept was developed for both plant and personnel, to enable the company to meet up-to-date standards and efficiencies.

NIGERIA – PRIVATISATION OF CALABAR CEMENT COMPANY

Consultant participated in the tender for the privatisation of this Federal and State asset on behalf of an international group. Plant condition, manufacturing costs, and availability of raw materials and skilled labour were all investigated to enable a value to be established for participation in the sale procedure.

Armenia – Assessment of Ararat Cement

Assessment of this 1.2 million tpa cement company for a contender in the sale of industrial assets by the Armenian Government. The cement plant, its raw materials and the market place was reviewed and put into a commercial context so that a competitive bid could be made.

INDIA – FEASIBILITY STUDY (INDIA CEMENTS)

Study involved slurry filtration trials and preparation of preliminary schemes, costings and benefit assessment of conversion of existing wet kiln line to semi-wet operation using vacuum filtration.

INDIA – FEASIBILITY STUDY (ACC)

Study involved slurry filtration trials and preparation of preliminary schemes, costings and benefit assessment of conversion of existing wet kilns at four nominated locations to semi-wet operation using vacuum and pressure filtration.

SAUDI ARABIA – FEASIBILITY STUDY (EPCC)

Feasibility study including market survey for additional production line on existing plant.

DOMINICAN REPUBLIC – FEASIBILITY STUDY FOR NEW PLANT

Technical feasibility study including raw material evaluation for proposed new greenfield cement plant.

UNITED KINGDOM – PLANT COMMISSIONING

Commissioning of 600 and 2,000 tpd semi-wet conversions using pressure filtration and Lepol kiln system.

UNITED KINGDOM – PLANT COMMISSIONING

Commissioning of 1,000 t/d semi-wet conversions using pressure filtration and crusher-drier in conjunction with single stage suspension preheater.

Fiji – Plant commissioning

Commissioning of 100,000 t/y semi-wet conversions using vacuum filtration and crusher-drier in conjunction with single stage suspension preheater.

UNITED KINGDOM – CLOSURE AND DISPOSAL OF WORKS (CASTLE CEMENT)

Management of the closure and disposal of the Pitstone Works including obtaining planning permission for the development of the site and the sale of assets to interest parties.

UNITED KINGDOM – PULVERISED FLY-ASH ASSESSMENT (CASTLE CEMENT)

Assessment and recommendation of pulverised fly-ash beneficiation technologies including an evaluation of PFA mineralogical structure and how this influences beneficiation.

UNITED KINGDOM – RESTRUCTURING (CASTLE CEMENT)

Production strategy team member covering restructuring of total manufacturing and import base of the UK operations.

UNITED KINGDOM – RE-ORGANISATION AND MANAGEMENT (CASTLE CEMENT)

Re-organisation and management of R & D functions, technical sales support and customer care laboratory.

NIGERIA – STORES AND SPARE PARTS MANAGEMENT (NIGERCEM STORES)

Review of operations and re-establishment of robust stores and spare parts management systems.

NIGERIA – OPERATIONAL SUPPORT (NIGERCEM OPERATIONS)

Practical operational support including spare parts planning and procurement.

NIGERIA – REVIEW (NIGERCEM OPERATIONS)

Review and analysis of electricity consumption and management identifying usage improvements and overcharges by the National Electric Power Authority (NEPA).

UNITED KINGDOM – ELECTRICAL AND CONTROL COMMISSIONING, KETTON KILN 7 (CASTLE CEMENT)

Commissioning of various parts of the electrical and control system for the plant including process improvements.

CUBA – DUE DILIGENCE STUDY (SCANCEM GROUP)

Due diligence study prior to acquisition recommendation of the Cuban cement industry.

UNITED KINGDOM – ALTERNATIVE FUELS STRATEGY (CASTLE CEMENT)

Developing and implementing company alternative fuels strategy including the use of liquid, viscous and solid waste materials resulting in a thermal substitution of over 60%.

NORWAY – REVIEW (SCANCEM GROUP – KJØPSVIK)

Project management review.

WEST INDIES – PRODUCTION AND DELIVERY STRATEGY (SCANCEM GROUP)

Production and delivery strategy for single cement plant study.

FINLAND – INDEPENDENT VALUATION (SCANCEM GROUP)

Independent valuation of the Finnish cement industry (three integrated plants) as part of the negotiated acquisition by the group.

IRELAND – GENERAL MANAGEMENT (SEAN QUINN CEMENT)

General management of operating cement company covering all aspects from sales through production to delivery including administration and accounts.

UNITED KINGDOM – PRODUCTION STRATEGY (CASTLE CEMENT)

Implementing production strategy resulting in halving the production labour force with no loss of production.

UNITED KINGDOM – PURCHASING AND STORES STRATEGY (CASTLE CEMENT)

Designing and implementing a purchasing and stores strategy for all parts of the company, including repositioning the purchase function within operational management.

UNITED KINGDOM – ENERGY STRATEGY (CASTLE CEMENT)

Developing and implementing company energy strategy.

UNITED KINGDOM – ENVIRONMENT STRATEGY (CASTLE CEMENT)

Developing and implementing company environment strategy including the development of internal environmental audit teams.

UNITED KINGDOM – MANAGEMENT OF CAPITAL EFFICIENCY (CASTLE CEMENT)

Management of capital efficiency project covering all aspects of the balance sheet including stock optimisation and sales of unwanted assets.

UNITED KINGDOM – INTEGRATED MANAGEMENT SYSTEM (CASTLE CEMENT)

Planning, development and implementation of an accredited, integrated management system complete with internal audit teams covering all aspects of the company's business operations.

UNITED KINGDOM – MANAGEMENT OF KETTON WORKS (CASTLE CEMENT)

Management of Ketton Works, implementing numerous management and operational changes resulting in higher throughput and lower costs.

UNITED KINGDOM – PRODUCTION AND ENGINEERING AUDIT (CASTLE CEMENT)

Operational audit of the production and engineering functions within the Company comprising studies of six operational sites, three laboratories and head office functions including formulation of a new structure of the divisional management.

UNITED KINGDOM – GENERAL MANAGEMENT OPERATION SERVICES (CASTLE CEMENT)

General management of the operation services team comprising a diverse group of various technical specialists supporting all parts of the business.

UNITED KINGDOM – GENERAL MANAGEMENT PRODUCTION DIVISION (CASTLE CEMENT)

General management of and responsibility for the production division of the company.

UNITED KINGDOM – OPERATIONS, PROFITABILITY AND STRATEGY (CASTLE CEMENT)

General management of and responsibility for the operations, profitability and strategy of the company.

EUROPE – STRATEGIC DEVELOPMENT (HEIDELBERGCEMENT FUELS)

Strategic development, establishment and Board level involvement for a black fuel trading operating trading about 4 million tonnes/year.

USA & EUROPE – STRATEGIC DEVELOPMENT, WASTE DERIVED FUEL (SEAR AB)

Strategic development, establishment and Board level involvement for a waste derived fuel trading, production and development group company operating in Scandinavia, Baltic States, Benelux and UK.

UNITED KINGDOM – STRATEGIC DEVELOPMENT, WASTE DERIVED FUEL (SRM LTD)

Strategic development establishment and Board Chairmanship for a waste fuels and chemical recycling business handling about 500,000 tonnes/year of waste.

UNITED KINGDOM – SALES, DISTRIBUTION AND PRODUCTION STRATEGY (HEIDELBERGCEMENT)

Development of product sales, distribution and production strategy for a mature market environment.

UNITED KINGDOM – INTEGRATION STRATEGY (HEIDELBERGCEMENT)

Development of vertical/lateral integration strategy for a mature market environment, and planning for the acquisition of target companies in aggregates, ready mix and cement replacement materials.

EUROPE – HEIDELBERGCEMENT

Membership of the Group's executive committee for Europe.

EGYPT – FEASIBILITY STUDY (NORTH SINAI CEMENT PLANT)

Feasibility study and technical coordination for new 1 x 5000 tpd cement plant.

EGYPT – FEASIBILITY STUDY (EL NAHDA CEMENT PLANT)

Feasibility study and technical coordination for new 1 x 5000 tpd cement plant.

IRAN – FEASIBILITY STUDY (YASOOJ CEMENT PLANT)

Feasibility study and technical coordination for new 1 x 3300 tpd cement plant.

INDONESIA – FEASIBILITY STUDY (SOUTH KALIMANTAN)

Feasibility study and technical coordination for new 2 x 7500 tpd cement plant.

EGYPT – FEASIBILITY STUDY (MISR BENI SUEF WATANEYA)

Feasibility study and technical coordination for new 4500 tpd turnkey project.

EGYPT – FEASIBILITY STUDY (CAIRO PORTLAND CEMENT)

Feasibility study and technical coordination for new 4500 tpd turnkey project.

IRAN – FEASIBILITY STUDY (BUSER CEMENT PLANT)

Feasibility study and technical coordination for new 1 x 3300 tpd cement plant.

IRAN – FEASIBILITY STUDY (BOJNURD CEMENT PLANT)

Feasibility study and technical coordination for clinker plant upgrade.

CROATIA – FEASIBILITY STUDY (NASICE CEMENT PLANT)

Feasibility study and technical coordination for clinker plant upgrade and coal conversion.

EGYPT – TECHNICAL AUDIT (CEMEX – ASSIYUT CEMENT PLANT)

Clinker burning department audit.

CROATIA – TECHNICAL AUDIT (NASICE CEMENT)

Plant process audit.

IRELAND – BUSINESS SYSTEM (SEAN QUINN GROUP)

System design and specification of new business system including IT hardware/software selection covering and integrating an expanding and very diverse group of companies covering large and small businesses from manufacture to services.

IRELAND – BUSINESS SYSTEMS (SEAN QUINN CEMENT)

Establishment of business systems for new cement company.

IRELAND – FEASIBILITY, SPECIFICATION AND PROJECT MANAGEMENT (SLIEVE RUSSELL HOTEL)

Feasibility, specification and project management of 145 bedroom hotel complex including leisure centre, banqueting suite, night club, and golf course.

IRELAND – DESIGN AND CONSTRUCTION (SEAN QUINN GROUP)

Design and construction of new head quarters building for growing group housing all service functions and the Group management team.

IRELAND – SUPERVISORY MANAGEMENT (PARKS HOTEL, DUBLIN)

Supervisory management of 55 bedroom hotel and night club during refurbishment and profitability turnaround.

UNITED KINGDOM – OPERATIONAL SHIFT MANAGEMENT

Supervision of integrated water treatment and pumping station including 11.2MW power station.

UNITED KINGDOM – WEST LONDON RAW WATER SCHEME

Commissioning of electrical and control systems including 33kV switchgear, transformers, synchronous and induction machines up to 2MW, computer base control system.

Ghana and Hong Kong – Training

Supervision of training for engineers.

UNITED KINGDOM – BECKTON SEWAGE TREATMENT PLANT

Commissioning of digestion gas fired power plant and instrument systems.

UNITED KINGDOM – THAMES BARRIER

Consultant supervision with specific inputs in decision making for switchgear, conceptual design of control hierarchy, and exceptional circumstances analyses.

UNITED KINGDOM – TEST DEPARTMENT

Establishment and management of organisation wide electrical test group for analysing electrical consumption and checking protection equipment.

UNITED KINGDOM – DOCKLAND REDEVELOPMENT

Team member planning the infrastructure for this scheme including transport links such as the Docklands Light Railway .

HONG KONG – SEWAGE TREATMENT (DEPARTMENT OF ENVIRONMENT)

Project management of five package sewage treatment plants for the New Territories.

HONG KONG – MUNICIPAL WASTE INCINERATORS (DEPARTMENT OF ENVIRONMENT)

Project management of two municipal waste incinerators comprising rotary kilns and gas clean-up systems.

UNITED KINGDOM – OFFICE ADMINISTRATION

Operational improvement project throughout a business covering sales, procurement, spare parts, accounts, administration, HR and design engineering departments to reduce paperwork and improve efficiency and communication.

IRELAND – BUSINESS DEVELOPMENT

Various development projects from feasibility through to implementation of diverse businesses ranging from a wind farm, gypsum mine and plasterboard plant, sand dredging, and public house acquisitions.