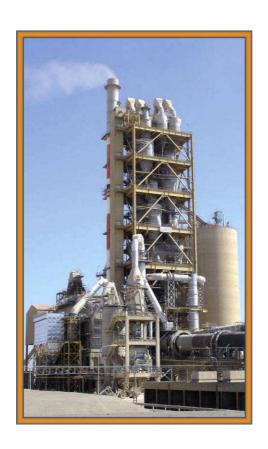
Consultancy Services for the Cement Industry & Industrial Minerals





AUSTRIAN ENGINEERING GMBH

Client Country	Project	Year
AL JOUF Cement Company SAUDI ARABIA	Cement Plant Expansion 5,000 tpd The cement factory has been established near Turaif in the northern part of the Kingdom of Saudi Arabia located close to the Saudi, Jordanian and Iraqi borders. The extension project of the existing plant (5,000 tpd clinker) entails adding a new line of 5,000 tpd clinker production capacity including extension of captive power plant. The EPC contract for cement production line has been awarded to CDI-Sinoma end of 2011. The supplier of new power plant is Wärtsila. Austroplan started with review of tender documentation and assistance in contract negotiations. Austroplan's services include project management services, approval of	2012 to date
N.N. MAKKAH REGION SAUDI ARABIA	contractor's design and fulltime supervision of the construction site. Greenfield Cement Plant Preparation of Tender Documentation and support in contract negotiations with turn-key Contractors for a new cement plant in the Makkah region of the Kingdom of Saudi Arabia.	2012 to date
ARAB POTASH COMPANY JORDAN	Investigation and Redesign of a Dedusting System Performing of a site survey and dust measurements at the drying and sieving section of a hot leach plant with 4,800 t/d of potash production. Engineering of a new dedusting system. Elaboration of the technical tender specifications for the installation of the new dedusting system including filters, fans and piping.	2011- 2012
PALANCA ANGOLA	Greenfield Cement Plant Preparation of Tender Documentation and support in contract negotiations with turn-key Contractors for a new cement plant in South Angola.	2011

Client Country	Project	Year
CEMMAC AS SLOVAKIA	Revaluation of Residual Asset Life The aim of the project was to evaluate the cement plant after considerable revamping and modernisation. In cooperation with the client a model was developed where the book value of each single department was revalued based on its performance increase and referenced to international benchmarks.	2010- 2011
SINJAR Cement Plant IRAQ	Engineering & Consulting Services for Plant Rehabilitation	2010 to date
	Services including plant audit, evaluation and verification of the existing equipment, elaboration of the process technology and plant design for the rehabilitation project, preparation of investment budget, preparation of the tender documents, floating of tenders, evaluation of offers and preparation of contracts between suppliers and the client	
N.N. OMAN	Basic Engineering for Plant Upgrading	2010
	Elaboration of process engineering, layouts, flow-sheets and technical specification for equipment supply, erection and start-up services for the upgrading of the existing plant from 2,000 t/d up to 3,000 t/d clinker capacity	
Libyan Cement Com-	Benghazi Raw Mill No. 3 Turn-key Upgrading Project	2010 -
pany LIBYA	Engineering services including engineering, equipment supply, erection and start-up services; the main project target was to increase the raw mill system capacity from 80 t/h up to 160 t/h, the major tasks to be executed were the modification of the ball mill, implementation of a static separator into the system and installation of the bucket elevator in order to provide smooth material supply; the successful execution was carried out during 2.5 months (as part of kiln line No. 3 upgrading)	2011

Client Country	Project	Year
ATUK Cement Holding AG UKRAINE	Feasibility Study for a Greenfield Cement Plant Preparation of a feasibility study for the construction of a state-of-the-art dry process cement plant with 2,500 t/d clinker capacity in Eastern Ukraine; including raw materials investigation, market survey and plant design for the production of ordinary Portland and slag cement; assistance in the acquisition of land, license and permits for quarry development and plant construction	2009
Libyan Cement Company LIBYA	Benghazi Raw Mill No. 2 Upgrading Project Elaboration of mills improvement study with recommendations for future step; execution of upgrading project including engineering, equipment supply, erection and start-up services; the main project target was to increase the raw mill system capacity from 80 t/h to 140 t/h; the major tasks to be executed were the modification of the ball mill and implementation of a static separator into the system; the successful execution was carried out during a period of 40 days of kiln stoppage	2009
ATRUS Cement Holding AG RUSSIAN FEDERA- TION	Project Development for a Greenfield Cement Plant Greenfield project for construction of a cement plant with capacity of 6,000 t/d of clinker; carried out up to now or in progress: geological exploration (completed), resources evaluation according to the Russian law, feasibility study preparation (completed) and mine planning	2008 - 2012
Yanbu Cement Company SAUDI ARABIA	Cement Plant Expansion Project implementation monitoring consultancy, including supervision of construction of one production line with a capacity of 10,000 t/d clinker for the production of 3,500,000 t/y ordinary Portland cement at Yanbu, Saudi Arabia; the project includes an overland conveyor belt from the quarry to the plant	2008 to date

Viru Keemia Grupp	Cement Plant	2008
ESTONIA	Preparation of tender documents based on the technical opportunity study with special emphasis of the partial use of kerogenous raw mix components (dual kiln feeding) for the construction of a 2,500 t/d cement plant for the manufacture of Ordinary Portland Cement with reduced fuel consumption due to the partial utilization of kerogenous materials in modified dry-process technology	
Libyan Cement Com-	Cement Plant Expansion	2007
pany LIBYA	Preparation of feasibility study and tender documents, evaluation and analyzing of offers, assistance during negotiations with contractor and project implementation monitoring consultancy incl. supervision of construction and commissioning of a new production line with a capacity of 7,500 t/d clinker	
Kaz Cement Company	New Cement Plant	2007
KAZAKHSTAN	Preparation of a feasibility study, plant engineering and tender documentation for a new cement plant with an intended capacity of 1,300,000 metric tonnes p.a. of Ordinary Portland Cement in Almaty, Kazakhstan	
Viru Keemia Grupp ESTONIA	Cement Market Study	2007
	Elaboration of a market study evaluating currently used production processes and technologies including plants using oil-shale, an overview of the aggregated work cement market, quantitative analyses of the cement market and forecasts for extensive surrounding regions; the study also integrates factors such as price development analyses, restrictions, extensive information on sales and transport logistic and recent developments and forecasts of cement trading	
Viru Keemia Grupp	Inputs into Environmental Impact Assessment	2007
ESTONIA	Investigations regarding basic engineering, technological concept including the process description, plant specification, and plant layout among others; investigation of potential environmental impacts during the operational phases of the new cement plant	

Viru Keemia Grupp ESTONIA	Cement Plant Technical opportunity study including comparative capacity options and cost estimates for the construction of a cement plant at a shale-oil refinery; the dry-process plant concept has been based on the partial use of kerogeneous raw mix components (dual kiln feeding) and the use of shale-gas as primary fuel	2006
LSR-Group RUSSIA	Cement Plant Preparation of tender documents (semi-turnkey) based on opportunity study and due-diligence survey, including raw materials exploration for the construction of a 1,800,000 t/y cement plant near St. Petersburg for the manufacture of ordinary Portland cement with reduced fuel consumption due to partial utilization of kerogeneous depot materials available from previous mining and processing of oil-shale as alternative raw mix components in modified dry-process technology	2006
British Sugar UNITED KINGDOM	Laboratory Research Investigations at laboratory scale for the small-scale production of Portland cement clinker with the use of precipitated calcium carbonate (PCC) sludge and silt, both rejects from the processing of sugar beets	2006
Yemeni Saudi Cement Company YEMEN	Assistance in Cement Plant Design Review of basic design of a dry-process cement plant with a capacity of 3,000 t/d clinker at Batais village in Abyan province (100 km from Aden) and updating the feasibility study prepared by AUSTROPLAN (1997)	2005
Saudi Cement Company SAUDI ARABIA	Cement Plant Expansion Preparation of tender documents and project implementation monitoring consultancy, incl. supervision of construction of two production lines with a capacity of 2x 10,000 t/d clinker for the additional production of 6,600,000 t/y ordinary Portland cement and sulphate resistant cement at Hofuf, Saudi Arabia; the project includes an 8.8 km overland conveyor belt from the quarry to the plant	2004 - 2010

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2004 Southern Province Ce-**Cement Plant** ment Company Supervision of project implementation for a new SAUDI ARABIA Greenfield cement plant with a capacity of 5,000 t/d clinker constructed in the mountains at Tahamah. Southern Saudi Arabia; supervision of the Chinese general turn-key contractor; the project includes a captive power plant, 10 km water pipeline from the new water wells and all ancillary buildings and access roads 2004 Dangote Industries Ltd. **Cement Plant Completion NIGERIA** Fact-finding mission, market assessment, due-diligence in ccordination with survey and project implementation monitoring consul-The Worldbank (IFC) tancy as the "Lenders Engineer" under international fiand the European Innancing for completion of a cement plant project of 2 x vestment Bank (EIB) 2,200,000 t/y ordinary Portland cement at Obajana, Kogi State; the project also includes a captive power plant of 76 MW with 90 km extension of a natural gas pipeline, tapping at the Ajaokuta steel mill, the construction of a water dam and 7 km overland belt conveyor from the quarry to the plant 2004 Al-Ahmar Group **Cement Market Study** YEMEN Domestic market study to support the financing of a new cement plant of 3,000 t/d clinker capacity in the southern part of Yemen Libyan Cement Com-**Due Diligence Survey for Privatization** 2004 pany Fact-finding mission and preparation of technical-**LIBYA** economic due diligence survey report for the tendered privatization of > Benghazi / Hawari cement factory (4 production lines) 5.400 t/d El-Fataiah cement factory, Dernah (2 production) lines) 3,200 t/d Arabian Cement Com-2003 **Cement Plant Expansion** Preparation of Feasibility Study, Tender Documentation SAUDI ARABIA and Selection of General Turn-key Contractor for the Construction of an additional new cement kiln line no. 6

kiln line no. 5

with a capacity of 7,000 tpd clinker, the closing down of four existing old long cement kiln lines and the incorporation of the kiln line no. 6 into the existing equipment with

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Southern Province Ce-	Production Process Optimisation	2003
ment Company SAUDI ARABIA	Technical audit and evaluation of the existing cement plants at Bisha (one 5,400 tpd kiln line) and at Jazan (two 4,000 tpd kiln lines) with the purpose to study the production processes from the quarries to the cement dispatch, find bottlenecks and recommend the optimisation of the production process to increase the production capacities and to reduce the energy consumption	
F.K. Cement Co.	Cement Plant Expansion	2003
Fushe-Kruje ALBANIA	Preparation of a "project options feasibility study" for the expansion of a clinker grinding plant (remains of a former wet-process cement plant) to a complete dry-process cement plant equipped with precalciner kiln; comparison of capacity options between 1 to 1.3 million tpa with/without captive power plant and different fuel mixes (coal, lignite, petcoke)	
Arabian Cement Co.	Cement Plant Upgrading	2002
Rabigh SAUDI ARABIA	Feasibility studies for three options for the upgrading and expansion of the existing cement plant; the economic viability and feasibility of replacing the existing four long dry kilns (4 x 1,000 tpd clinker production) by a modern 5,000 tpd to 8,000 tpd preheater, precalciner kiln and additional grinding plants	
Fa. Cementa Lukavac	Cement Plant Optimisation	2002
Bosnia & Herzegovina	Monitoring consultancy for the optimisation and upgrading of a dry-process cement plant, incl. conversion from fuel oil to coal firing and use of coking gas, installation of 2nd cement mill / addition of pozzolanic flyash from thermal power plant at Tuzla	
Tabuk Cement Co.	Cement Plant Expansion	2002
SAUDI ARABIA	Monitoring consultancy for the construction of the first plant expansion to the 1,100,000 tpa cement plant consisting of a fourth cement silo, a second cement trans-	

cement grinding sections

portation line, a third bulk loading plant, an upgrading of the existing kiln line and an expansion of the existing

SYRIA

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Fa. Cementa Lukavac	Cement Plant Expansion	2001
BOSNIA & HERZEGO- VINA	Preparation of a "project options feasibility study" for the optimisation, upgrading and expansion of the dry process cement plant at Lukavac near Tuzla, from 250,000 tpa to 800,000 tpa and conversion from fuel oil firing to mixed fuel with use of coal and secondary low cost fuels, i.e.	
	 low grade coal lignite wasted rubber tyres wasted lube-oil 	
National Cement Co.	Privatisation	2001
EGYPT Pannel Kerr Forster UNITED KINGDOM	Technical audit for the planned privatisation of the cement company operating at Tabbin / Helwan, Cairo and producing 3,000,000 tpa > ordinary Portland cement > sulphate resistant Portland cement > blast-furnace slag cement > masonry cement > gypsum plaster > light-weight expanded clay aggregate including domestic market survey	
Tabuk Cement Co.	Production Process Monitoring and Quality Control	2001
SAUDI ARABIA	Management of the quality control department of the Tabuk Cement Company's 1,100,000 tpa dry-process cement plant at Duba for the production of pordinary Portland cement sulphate resistant Portland cement Portland pozzolan cement including training of personnel, laboratory services and pertinent operational assistance	
Bestway Cement Ltd.	Conversion of Kiln Firing System	2000
PAKISTAN Unitherm Cemcom AUSTRIA	Operational assistance and quality control consultancy during conversion of the firing system of a 3,300 t/d rotary kiln with off-line pre-calciner from the use of heavy fuel oil to natural gas or the combination of both fuels	
Adra Co.	Cement Plant Upgrading	1999

cement at Adra, Damascus

Consultancy services including implementation engineering and supervision of work for upgrading of the third dryprocess production line of 300,000 tpa ordinary Portland

to date

Libyan Cement Co.	White Cement Plant	1998
LIBYA	Feasibility study, basic engineering and preparation of tender documents for the construction of a 200,000 tpa white cement plant at the El-Fataiah chalk deposit near Derna	1000
Al Ahmar Group YEMEN	Cement Plant	1997
ILIVILIN	Feasibility study for the construction of a 670,000 tpa cement plant for the production of ordinary Portland ce- ment and sulphate resistant cement in the Abyan prov- ince in southern Yemen	
Libyan Cement Co.	Cement Plant Expansion	1996
LIBYA	Feasibility study, basic engineering and preparation of tender documents for the expansion of the El-Fataiah cement works by adding one production line with precalciner for 1,000,000 tpa ordinary Portland cement; the services include geological exploration of limestone and clay deposits, the cement plant project and a seaterminal at Derna for the export of clinker and cement	
Foster Yeoman Ltd.	Quarry Optimization	1995
GREAT BRITAIN	Opportunity study for the recycling of waste material from a limestone quarry	
Tabuk Cement Co. SAUDI ARABIA	Cement Plant	1994
	Monitoring consultancy for the construction of a dry- process cement plant equipped with pre-calciner kiln producing 1,100,000 tpa ordinary & sulphate resistant Portland cement at Duba at the Red Sea. The project also includes power generation and seawater desalina- tion	
State Administration for	Small-scale Cement Plants Modernisation	1994
Building Materials Indus- try CHINA	Sector study concerning technical improvements, environmental aspects, operational issues in assistance to the Chinese Government to formulate the policy and new regulations for the restructuring of the small-scale segment of the Chinese cement industry	
KfW	Cement Plant Rehabilitation	1993
GERMANY	Feasibility study for the rehabilitation of the Mugher Cement Factory (600,000 tpa clinker design capacity) in Ethiopia	

I.B.R.D.	Cement Companies Management	1993
Washington, D.C. U.S.A.	Preparation of tender documents and draft contract for management services to three cement companies in Egypt	
Pragocement	Cement Clinker Cooler	1993
CZECH REPUBLIC	Technical study on the reduction of aerosol emissions from two grate-coolers of 2 x 250,000 tpa clinker output	
Benue Cement Com-	Cement Plant Optimization	1992
pany Benue State NIGERIA	Engineering, reconstruction and commissioning of two cement grinding plants, pneumatic cement transport facilities and compressed air system	
I.B.R.D.	Cement Industry Optimization	1992
Washington, D.C. U.S.A.	Evaluation of technical audits for three cement plants in Egypt with special emphasis on energy conservation and protection of environment	
Tigrai Development	Cement Plant	1992
Association ETHIOPIA	Feasibility study for the construction of a 300,000 tpa cement plant at Mekele in northern Ethiopia	
Geological Survey	Carbonates Exploration	1992
of Austria AUSTRIA	Geological survey of Lower Austria to evaluate its potential on high-grade carbonate rock for industrial use	
SIMAC Holding	Mini Cement Plant Optimization	1991
SLOVAKIA	Opportunity study for the optimisation of a cement plant with 5 shaft kilns at Horné Srnie, Slovakia	
Multiwall Papersacks	Cement Clinker Plant	1990
GHANA	Feasibility study for 500,000 tpa Portland cement clinker production from domestic raw materials for 2 existing cement grinding plants	
Yakutcement	Cement Plant Expansion	1990
RUSSIAN FEDERA- TION	Basic engineering based on pilot tests for a new production line at Mochsogolloch, Yakutia Sacha Republic, for 650,000 tpa Portland cement; process modification from wet to semi-wet and introduction of pre-calcining technology	

Development Bank of the Philippines	Cement Industry Restructuring	1990
PHILIPPINES	Sub-sector fact finding mission concerning the restructur- ing of the cement industry of the Philippines financed by the World Bank	
Ministry of Commerce	Mini Cement Plant	1989
and Industry BURUNDI	Feasibility study including the comparative evaluation of alternative proposals for cement manufacture on smallest scale based on either domestic raw materials or imported cement clinker	
United Nations	Bauxite Sector Development	1989
New York U.S.A.	Regional techno-economic study of the integrated exploitation and processing of bauxite from deposits in Mozambique and in Malawi extending to Zimbabwe for the establishment of an alumina industry in the SADCC region	
United Nations	Lime Sector Development	1989
New York U.S.A.	Regional market study to support the development of the lime industry in the SADCC member countries Angola, Botswana, Lesotho, Malawi, Mozambique, Swaziland, Tanzania, Zambia, Zimbabwe	
I.B.R.D.	Cement Industry Expansion	1988
Washington, D.C. U.S.A.	Sub-sector fact finding mission for the expansion of the cement industry in Egypt	
Wolfsegg-Traunthaler	Lignite Mining	1988
Collieries AUSTRIA	Corporate management consultancy assignment at 500,000 tpa underground and open pit lignite mine	
Société des Mines	Small Scale Mining	1988
RWANDA	Design and evaluation of technical and financial assistance programme for artisanal mining of cassiterite and colombo-tantalite	
Provincial Government	Gold Exploration	1988
Lower Austria AUSTRIA	Mine property evaluation through geological survey and systematic geochemical sampling of old copper mine with reported gold values	

Benue Cement Co. NIGERIA	Cement Plant Optimization Technical study for the modification and modernisation of 900,000 tpa dry-process cement plant for increase in production capacity and optimisation of operation	1988
Rigips Austria AUSTRIA	Gypsum Mining Medium and long-term mine planning for 120,000 tpa open pit/underground gypsum/anhydride operation	1988
Bleiberger Bergwerks- Union AUSTRIA	Antimony Mining & Processing Techno-economic evaluation of strategic concept for restructuring the Austrian antimony industry, including assessment of geological potential, mine viability and antimony additive production	1988
Department of Trade and Industries BHUTAN	Graphite & Coal Mining Feasibility study on graphite project and pre-feasibility study on coal project	1988
MINEREX Mineral- Exploration AUSTRIA	Lithium Mining & Processing Appraisal of an underground lithium ore mining project, including conceptual design of underground mine, beneficiation plant, carbonate production plant, market potential and financial evaluation of project	1987
Ministry of Construction LAOS	Mini Cement Plant Feasibility study for a 60,000 tpa mini cement plant based on shaft kiln technology, including assessment of raw materials, geological investigation of anthracite coal deposit	1987
Bleiberger Bergwerks- Union AUSTRIA	Lead & Zinc Industry Analysis of lead and zinc production costs of the leading international producers, including mining operations, processing plants and smelters	1987
MINEREX Mineral- Exploration AUSTRIA	Feldspar-Silica-Mica Mining Preliminary market survey for feldspar, silica sand and mica as by-product of planned lithium ore mining and processing	1987

Cement Company of Northern Nigeria NIGERIA	Cement Plant Operational Assistance	1987
	Long term agreement for the establishment of a technical documentation & data bank and continuous procurement of spare parts & consumables; financial engineering and technical assistance	
Bleiberger Bergwerks-	Antimony Mining	1987
Union AUSTRIA	Determination of technical, legal and financial requirements in connection with the possible closure of a 25,000 tpa r.o.m. antimony mine	
Bleiberger Bergwerks-	Lead-Zinc Mining	1987
Union AUSTRIA	Determination of technical, legal and financial requirements in connection with the possible closure of a 500,000 tpa r.o.m. lead-zinc mine	
World Bank	Industrial Minerals Research	1986
Washington D.C. U.S.A.	Mineral economics research on the economic perspec- tives of industrial mineral extraction in developing coun- tries as basis for the establishment of policy guidelines for future lending operations in this field	
Provincial Government	Mineral Projects Development	1986
Lower Austria AUSTRIA	Techno-economic evaluation and assessment of mineral-oriented investigation results for identification of commercial production potential and recommendation for future development	
Çitosan	Cement Industry Restructuring	1986
TURKEY	Review of restructuring programme subject to World Bank financing including conversion to coal firing and increased use of additives	
World Bank	Small-Scale Mining Policy Research	1986
Washington D.C. U.S.A.	World-wide policy research project regarding issues, development potential and assistance options for small-scale mining in developing countries as a basis for future World Bank lending operations to this target segment	
Provincial Government	Mineral Survey	1986
Lower Austria AUSTRIA	Assessment of mineral resource potential of 4,100 km2 target area in Lower Austria including geological prospecting, geochemical sampling, multi-element analysis and evaluation of minerals potential	

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Unong Mines PHILIPPINES	Coal Mining Detailed review and recalculation of recoverable coal reserves and assessment of coal quality	1985
Provincial Government Lower Austria AUSTRIA	Kaolin Mining Prospecting for and exploration of kaolin occurrences including air-photo interpretation, geophysical survey and core drilling	1985
Tibni Mine SYRIA	Rock Salt Mining Field mission and basic engineering for expansion of an underground rock salt mine	1985
State Mining Corporation TANZANIA	Kaolin Filler Plant Engineering services for the rehabilitation of small-scale kaolin mine and processing plant; procurement services for mining and processing equipment, assistance in operation of plant	1985
Ministry of Commerce and Industry BURUNDI	Limestone Exploration Geological assessment of the availability of limestone for a 60,000 tpa mini cement plant; investigation of travertine deposits, including chemo-physical raw material evaluation and calculation of mineable reserves	1985
World Bank Washington D.C. U.S.A.	Limestone Exploration Geological assessment of the suitability of limestone deposits for the production of calcium carbide in Bhutan	1984
State Mining Corporation TANZANIA	Kaolin Processing Appraisal report on the possibilities of the rehabilitation and expansion of an existing small-scale kaolin operation	1984
Ministry of Petroleum and Mineral Resources SYRIA	Dolomite Refractory Plant Feasibility study for mining of dolomite and manufacture of refractory bricks for use in the steel and cement industry	1984
Ministry of Industry DJIBOUTI	Mini Cement Plant Feasibility study for a 60,000 tpa mini cement plant based on shaft kiln technology, including geological investigations	1983

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G. F. Appio NIGERIA	Lime Plant Feasibility study for a 25,000 tpa lime plant in Cross River State	1983
Ooni of Ife NIGERIA	Granite Quarry Feasibility study for opening a granite quarry and establishment of a crushing and screening plant and a dimension stone cutting plant in Ondo State	1983
Ministry of Natural Resources RWANDA	Tin Mining Expert opinion on the development potential of the artisanal small-scale tin mining sector	1983
African Development Bank COTE D'IVOIRE	Cement Plant Fact-finding mission and appraisal of a cement project in Mali	1982
Jagadamba Cements INDIA	Mini Cement Plant Basic design of a mini cement plant based on dry process technology with short rotary kiln and central grinding unit	1982
The Arab Potash Company JORDAN	Soda Ash Plant Feasibility study for a soda ash project with a capacity of 150,000 tpa, based on sodium chloride recovered from the Dead Sea, including market survey for soda-ash and industrial salt, geological investigations of a high-grade limestone deposit in the Jordan valley	1981
Guyana Mining Enter- prise GUYANA	Bauxite Mining Technical study for Bauxite crude ore handling and a homogenisation plant	1981
Empresa Minera Cumbaratza ECUADOR	Gold Exploration Assessment of gold placer deposits and evaluation of small and medium-scale mining potential	1980
Ministry of Industry PHILIPPINES	Mining of Coal & Iron Ore Investigations and assessment of indigenous raw material resources as main supply for a steel mill, including the evaluation of development potential of small-scale coal mining districts	1980

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Empresa Minera Cumbaratza ECUADOR	Base Metals Ore Exploration Non-ferrous metals exploration by core drilling for lead, zinc and copper	1980
Cementos Guastatoya GUATEMALA	Cement Plant Feasibility study for a 500,000 tpa cement plant based on dry process technology with short rotary kiln	1980
State Mining Corporation TANZANIA	Kaolin Mining & Processing Feasibility study for the expansion of a Kaolin mine and processing plant; increase from 10,000 tpa to 110,000 tpa crude kaolin, including geological investigations	1979
Ondo State Government NIGERIA	Limestone Exploration Assessment of a limestone deposit for cement and lime production	1978
Nigerian Mining Corporation NIGERIA	Lime Plant Feasibility study for the establishment of lime plants in Sokoto State and in Cross River State	1978
Haiti & Caribbean Cement Import Export HAITI	Cement Plant Feasibility study for a cement plant to produce 600,000 tpa Portland cement by semi-dry or dry process respectively including geological investigations and core drilling at alternative locations	1978
Cement Company of Northern Nigeria NIGERIA	Cement Plant Expansion Monitoring consultancy for resuscitation and expansion of a cement plant from 100,000 tpa to 600,000 tpa Portland cement by dry process technology with short rotary kiln	1978
Société des Mines RWANDA	Tungsten Processing Opportunity study of the possibility to increase the tungsten content in concentrates from an existing ore treatment plant, including the supply of the pilot classification plant	1977
IVA-Engineering & Contracting IRAN	Cement Plant Detail engineering for the second cement production line for a capacity of 700,000 tpa by dry process with short rotary kiln at Loshan	1977

Insitituto de Prevision Militar GUATEMALA	Cement Raw Materials Exploration Assessment of raw material deposits for a cement plant	1977
GUATEMALA	project including core drilling	
Procarbón de Occidente COLOMBIA	Coal Mining	1977
	Feasibility study for the development of the Cauca Valley coal district by planned capacity increase from 0.6 million tpa to 1.2 million tpa; development programme for small-scale underground lignite mines	
Industrial Development	Cement Industry Restructuring	1976
Corporation TRINIDAD & TOBAGO	Assets valuation of cement company producing 270,000 tpa of various cements by wet process	
Corporación Nacional	Cement Plant	1975
de Inversiones HONDURAS	Feasibility study for a cement plant with a capacity of 360,000 tpa of Portland and pozzolanic cement by dry process with short rotary kiln, including geological investigation and core drilling	
Government of Abu	Cement Raw Mix Composition	1974
Dhabi UNITED ARAB EMIR- ATES	Technical study for the use of ferruginous bauxite and silica sand as additives to the cement raw mix and assistance in procurement of imports from Pakistan	
Rudar Konjic	Filler Plant Expansion	1974
YUGOSLAVIA	Basic engineering based on laboratory investigations for the expansion of a pyrophyllite dressing plant for paper filler production through the addition of a wet classifica- tion and micronizing units	
Calabar Cement Co. NIGERIA	Cement Terminal	1973
	Monitoring consultancy for the construction of a cement terminal with ship unloading facilities for 50,000 tpa bulk cement; located at Oron, Calabar river, Akwa Ibom State	
Union Cement Co. UNITED ARAB EMIR- ATES	Cement Plant	1973
	Supervision of erection, start-up and commissioning of the Khor Khoweir cement plant in the Emirate Ras Al- Khaimah, producing 250,000 tpa of Portland cement by dry process with long rotary kiln, including operational assistance	

R.A.K. Rock Company UNITED ARAB EMIR- ATES	Cement Raw Materials Mining Technical study for the opening of a limestone quarry and a clay pit and establishment of a viable transport system for 400,000 tpa crushed rock	1973
Calabar Cement Co. NIGERIA	Cement Raw Materials Technical study for the exploitation of limestone and clay by expansion of the existing quarry, and rationalisation to increase the output up to 650,000 tpa	1973
Calabar Cement Co. NIGERIA	Cement Plant Expansion Monitoring consultancy for the conversion of a cement factory from wet process to dry process with short rotary kilns; expansion from 100,000 tpa to 400,000 tpa Portland cement, including assistance in operation of plant	1972
Calabar Cement Co. NIGERIA	Cement Raw Materials Exploration Exploration and mine planning for limestone, clay, shale and lateritic iron ore deposits including core drilling	1972
Technical Agency, Government of Ethiopia ETHIOPIA	Cement Industry Expansion Feasibility study for the expansion of the national cement industry up to a production capacity of 300,000 tpa Portland cement	1970



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