Cement, Asbestos, Ceramics, Bricks, Limestone and Construction Materials Manufacturing Technology

The Complete Book on Glass and Ceramics Technology (2nd Revised Edition)
Ceramics also known as fire clay is an inorganic, non-metallic solid article, which is produced by the art or technique of heat and subsequent cooling. The ceramics industry in India came into existence about a century ago and has matured over time to form an industrial base. From traditional pottery making, the industry has evolved to find its place in the market for sophisticated insulators, electronic and electrical items. The ceramic industry has been modernizing continuously, by newer innovations in product design, quality etc. Glass is an inorganic product typically produced by melting a mixture of silica, soda and calcium compound with desired metallic oxides that serves as coloring agents. Indian glass industry will increase on the sidelines of real estate growth across retail, residential and office estate. Glass production involves the fusion of several inorganic substances. These various substances include products such as silica sand, soda ash, dolomite and limestone, representing together 99% of all the raw materials, excluding recycled glass. Glass-ceramics are mostly produced in two steps: First, a glass is formed by a glass-manufacturing process. The glass is cooled down and is then reheated in a second step. In this heat treatment the glass partly crystallizes. In most cases nucleation agents are added to the base composition of the glass-ceramic. These nucleation agents aid and control the crystallization process. Glass-ceramics are fine-grained polycrystalline materials formed when glasses of suitable compositions are heat treated and thus undergo controlled crystallization to the lower energy, crystalline state. It is important to emphasize a number of points in this statement on glass ceramics. Glass ceramics has helped the electronics industry build much smaller and highly efficient transistors, leading to advances in all types of devices. The book covers almost all important aspects of Glass and Ceramic Industry: Properties, Applications, Manufacturing, Processing and Photographs of Plant &Machinery with Supplier’s Contact Details. The major contents of the book are types of glasses, silicate glasses, boric oxide and borate glasses, phosphorus pentoxide and phosphate glasses, germanium dioxide and germanate glasses, titanate glasses, nitrate glasses, glasses based on water, halide glasses, modern glass working, monax and pyrex glass, electric welding, photo electric cells, glassy metals, analysis of glass, glass ceramics, ceramics as electrical materials, analysis of ceramics etc. The book will be useful to
the consultants, technocrats, research scholars, libraries and existing units and new entrepreneurs who will find a good base to work further in this field.
All India Construction Materials Manufacturers & Suppliers
Database/Directory

Format: CD-Rom
Book Code: NID86
Price: Rs. 2,950.00  US$ 200.00
Contains: Over 5400 records with Name, Addresses, City, State, Pin, Phone, Fax, E-mail*, Products.

The Complete Book on Construction Materials
Construction industry is the largest consumer of material resources, of both the natural ones (like stone, sand, clay, lime) and the processed and synthetic ones. Each material which is used in the construction, in one form or the other is known as construction material (engineering material). No material, existing in the universe is useless; every material has its own field of application. Stone, bricks, timber, steel, lime, cement, metals etc. are some commonly used materials by civil engineers. Selection of building material, to be used in a particular construction, is done on the basis of strength, durability, appearance and permeability. The stone which is used in the construction works, in one form or another is always obtained from the rocks. The rocks may be classified in four ways; geological classification, physical classification, chemical classification and classification based on hardness of the stone. Various kinds of rocks come under these classification for example; igneous rocks, plutonic rocks, sedimentary rocks, silicious rocks, stratified rocks etc. brick is the most commonly used building material which is light, easily available, uniform in shape and size and relatively cheaper except in hilly areas. Bricks are easily moulded from plastic clays, also known as brick clays or brick earth. Bricks can be moulded by any of the three methods; soft mud process, stiff mud process and semi dry process. There are various kinds of bricks; specially shaped bricks, burnt clay bricks, heavy duty bricks, sand lime bricks, sewer bricks, refractory bricks, acid resistant bricks etc. lime is an important building material, it has been used since ancient times. Lime is used as a binding material in mortar and concretes, for plastering, for manufacturing glass, for preparing lime sand bricks, soil stabilization etc. Concrete is a construction material obtained by mixing a binder (such as cement, lime, mud etc.), aggregate (sand and gravel or shingle or crushed aggregate), and water in certain proportions. Based on the binding materials, the common concretes can be classified as; mud concrete, lime concrete, cement concrete and polymer concrete. World demand for cement and concrete additives is projected to increase 8.3 percent annually in next few years. This book basically deals with rock and stone, formation of rocks, classification of rocks, geological classification, metamorphism physical classification of rocks, chemical classification, classification based upon hardness of
the stone composition of stone (rock forming minerals), igneous rock forming minerals, sedimentary rock forming minerals, texture of the rocks, types of fractures of rock, uses of stone, natural bed of stone, aluminium and magnesium alloys, mechanical properties of a partially cured resin, DMA characterization, chemical advancement of a partially cured resin, differential scanning calorimeter characterization, chemical mechanical relations, moisture content as a variable, wetability and water repellency of wood, fungal and termite resistance of wood etc. The book provide wide coverage of building materials such as stone, bricks, lime, mortars, concrete, asbestos, gray iron, cast iron, steel castings, aluminium, wood, architectural paints and so many others with their applications in building construction. The book is resourceful for all professionals related to construction field, technocrats, students and libraries.
Bricks, cement and asbestos have major role in building and road construction. Construction industry is the largest consumer of material resources, of both the natural ones (like stone, bricks, cement, lime) and the processed and synthetic ones. Each material which is used in the construction, in one form or the other is known as construction material (engineering material). No material, existing in the universe is useless; every material has its own field of application. A brick is a block of ceramic material used in masonry construction, usually laid using various kinds of mortar. It has been regarded as one of the longest lasting and strongest building materials used throughout history. Brick is the most commonly used building material which is light, easily available, and uniform in shape and size and relatively cheaper except in hilly areas. Bricks are easily moulded from plastic clays, also known as brick clays or brick earth. Bricks can be moulded by any of the three methods; soft mud process, stiff mud process and semi dry process. There are various kinds of bricks; silica bricks, carbon bricks, magnesite bricks, dolomite bricks, alumino silicate bricks, refractory bricks, etc. Cement is a binder, a substance that sets and hardens independently, and can bind other materials together. The most important use of cement is the production of mortar and concrete the bonding of natural or artificial aggregates to form a strong building material that is durable in the face of normal environmental effects. Cement is made by heating limestone (calcium carbonate) with small quantities of other materials (such as clay) to 1450 °C in a kiln, in a process known as calcination, whereby a molecule of carbon dioxide is liberated from the calcium carbonate to form calcium oxide, or quicklime, which is then blended with the other materials that have been included in the mix. The resulting hard substance, called clinker, is then ground with a small amount of gypsum into a powder to make Ordinary Portland Cement, the most commonly used type of cement (often referred to as OPC). Asbestos is a set of six naturally occurring silicate minerals used commercially for their desirable physical properties. Asbestos mineral have an almost unique combination of physical and chemical properties. The most widespread modern uses of asbestos are in fireproof textiles, papers and boards and in brake and clutch linings for many kinds of vehicle and machinery. The
three main kinds of asbestos which have had wide
commercial exploitation are chrysolite, amosite and
crocidolite. Some of the major contents of the book are
moulded and ornamental bricks and blocks, including copings
and lintels, cutters and rubbers, fireplace bricks, fire bricks
and other refractory bricks mixing, tempering mills or wet
pans, the addition of water, souring, de airing, shaping the
bricks, bricks made of calcined clay or grog, silica bricks,
transition temperatures of silica on cooling, alumino silicate
bricks, magnesium silicate bricks (forsterite bricks), high
alumina bricks, spinel bricks, developments in refractory
brick, production of cement clinker, introduction, preparation
of kiln feed, wet and semi wet processes, dry and semi dry
processes, pyroprocessing: principal manufacturing
processes, wet and semi wet processes, dry processes, semi
dry (lepol) process, clinker cooling, refractories, electric
power consumption, plastic moulding by machinery the
machine moulding process, moulding machines, the wire cut
or extrusion process, selection of machinery, power,
individual machines, shredding machines, grids, feeders,
proportioning, proportioning feeders, crushing rolls, high
speed rolls, dressing the rolls, edge runner mills, tempering
mills etc. The present book contains processes of different
types of bricks making, cement manufacturing and production
of asbestos. The book is very resourceful for new
entrepreneur, existing units, professionals, institutions related
to building construction, research scholars etc.
Offline Business directory is the best thing in today's business world. If you are searching for Buyers, then this Directory/Database is the perfect tool for you. By having the right business leads, you would be able to have immediate communication with prospective businesses, partners and customers through this boundless list of All India Companies in csv excel editable format (easy sorting and filtering). We offer an extensive suite of Directories/database to assist you in reaching the right and targeted businesses and people quickly and easily. Business, B2B, Industrial Directories, Mailing List are used for sales planning, finding Buyers, Sector, Business House and marketing research to perform business analysis. With our company database/Directory, you will have access to company list, Corporate/Leading Companies, Small & Medium Enterprises (SME), you will find a business list consisting of company contact details. We compiled list of companies in excel format to give you access to over hundred thousands of major & minor businesses and companies. From small business to Corporate Houses, our data is complete with business contact information to help you connect with the right companies or buyers. This database collection is a great resource for Buyers and those suppliers who offer their goods and services to Trade, Manufacturing industry, Companies, Corporate Houses & Industries in India. Contains: 85,500 records with Company Name, Postal Address (85, 250), Contact Person (18,600), Phone (58,600) Landline/ Mobile), Fax (20,300), E-mail (38,000), Website (24,600), Product Details. Note: All Records does not contain all fields of information. However, maximum information has been incorporated. Format: MS Excel, .xlsx

Directory / Database of Corporate/Leading Companies in Indian Cement Sector (with Financial Figures) 6th Edition [.xlsx, excel format]
Format: CD-Rom
Book Code: NID141
Price: Rs. 4,602.00  US$ 150.00

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Directory / Database of Indian Corporate/Leading Companies in Non-Metallic Mineral Products (Silica Minerals, Abrasives, Stone, Mineral Phosphate, Magnesium Carbonate, Gypsum & Plasters,

NIIR Project Consultancy Services (NPCS) 11/16
**Limestone, Mica, Granite etc.) with Financial Figures (3rd Edition)**

**Format:** CD-Rom

**Book Code:** NID172

**Price:** Rs. 6,136.00  US$ 225.00

**PRODUCTS COVERED:** CEMENT, ASBESTOS,
ABRASIVES Cement & Clinker, Products of Cement,
Concrete, Asbestos-Cement Products, Millstone, Grindstone,
Limestone, Abrasive Powder, Slag Wool, Rock Wool, Asphalt,
Bitumen, Coal Tat Pitch, Earthen Wares & Plaster Products,
Mica Products, Gypsum Board, Micro Abrasive Power
CERAMIC PRODUCTS Bricks, Blocks, Refractory Bricks,
Tiles, Ceramic Materials, Fibre, Pipe GLASS &
GLASSWARES Float Glass, Glass Articles, Glass Cullet,
Fiber Glass, Sheet Glass, Mineral Glass Sheet, Broken Glass
PEARLS & PRECIOUS STONES Pearls, Diamond, Rough
Diamonds, Semi Finished Diamonds, Cut & Polished
Diamonds, Synthetic Semi Precious Stones, Gold Ornaments
& Jewellery, Semi Finished Jewellery. Contains: 573 records
Includes: Name of Company, Address, City, Pin Code, Phone,
Fax, E-mail*, Website*. Name of Directors, Location of Plants,
Project Capacity, Production, Name of Products, Turnover,
Product industry Code, List of Major Raw Materials with their
consumption quantity, Raw material value Comparison
amongst companies (Assets, Cash Flow, Cost as % of sales,
Forex Transaction, Growth in Assets & Liabilities, Growth in
Income & Expenditure, Income & expenditure, Liabilities,
Liquidity Ratios, Profitability Ratio, Profits, Return Ratios,
Structure of Assets & Liabilities (%), Working Capital &
Turnover Ratios) (*Wherever available) Note: All Records
does not contain all fields of information. However, maximum
Information has been incorporated. Format: MS Excel

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**Directory/Database of Builders, Developers, Building Materials,
Construction & Building Contractors in India (3rd Edition)**
Offline Business directory is the best thing in today’s business world. If you are searching for Buyers, then this Directory/Database is the perfect tool for you. By having the right business leads, you would be able to have immediate communication with prospective businesses, partners and customers through this boundless list of All India Companies in csv excel editable format (easy sorting and filtering). We offer an extensive suite of Directories/database to assist you in reaching the right and targeted businesses and people quickly and easily. Business, B2B, Industrial Directories, Mailing List are used for sales planning, finding Buyers, Sector, Business House and marketing research to perform business analysis. With our company database/Directory, you will have access to company list, Corporate/Leading Companies, Small & Medium Enterprises (SME), you will find a business list consisting of company contact details. We compiled list of companies in excel format to give you access to over hundred thousands of major & minor businesses and companies. From small business to Corporate Houses, our data is complete with business contact information to help you connect with the right companies or buyers. This database collection is a great resource for Buyers and those suppliers who offer their goods and services to Trade, Manufacturing industry, Companies, Corporate Houses & Industries in India. The database contains 21,000 records from all over India. Includes Name, Postal Address (19,800), Contact Person (9,000), Phone No. (13,400), Fax (2,800), E-mail (1,800), Website Address (160).

Note: All Records does not contain all fields of information. However, maximum information has been incorporated.

Format: MS Excel

Directory / Database of Corporate/Leading Companies in Indian Mining and Construction Equipments (Earth Moving Machinery, Material Handling Equipments, Lift and Elevators, Cranes, Drilling, Oil and Gas Field Equipments) with Financial Data (3rd Edition)
Format: CD-Rom
Book Code: NID182
Price: Rs. 5,192.00   US$ 200.00
"Contains: 139 records Includes: Name of Company, Address, City, Pin Code, Phone, Fax, E-mail*, Website*. Name of Directors, Location of Plants, Project Capacity, Production, Name of Products, Turnover, Product industry code, List of Major Raw Materials with their consumption quantity & Raw material value Comparison amongst companies (Assets, Cash Flow, Cost as % of sales, Forex Transaction, Growth in Assets & Liabilities, Growth in Income & Expenditure, Income & expenditure, Liabilities, Liquidity Ratios, Profitability Ratio, Profits, Return Ratios, Structure of Assets & Liabilities (%), Working Capital & Turnover Ratios) (*Wherever available) Note: All Records does not contain all fields of information. However, maximum information has been incorporated. Format: MS Excel "

The Complete Technology Book on Asbestos, Cement, Ceramics and Limestone
Asbestos is the generic term for a group of naturally occurring fibrous minerals with high tensile strength, flexibility, and resistance to thermal, chemical and electrical conditions. Asbestos fibers are of high-tensile strength, flexible, heat and chemical resistance, and good frictional properties. Cement is the most essential raw material in any kind of construction activity. Ceramics also known as fire clay is an inorganic, non-metallic solid article, which is produced by the art or technique of heat and subsequent cooling. Limestone is a sedimentary rock, mainly composed of calcium carbonate (CaCO₃). It is the principal source of crushed stone for construction, transportation, agriculture, and industrial uses. Emerging applications in commercial sectors such as asbestos, cement and ceramic are poised to fuel demand in the coming years. Growing demand for limestone in the production of cement as well as in several other chemicals that are used in the production of high-value every-day products offers significant opportunities for growth. Global Limestone consumption is projected to reach 5.7 billion tons and expected to grow at an average annual rate of 4–5% in coming years. Presently, cement production is 330 million tonnes and expected to double to reach almost 550 million tonnes in future. The major contents of the book are asbestos, monitoring and identification of air-borne asbestos, asbestos in industrial applications, asbestos – cement products, non – occupational asbestos emissions and exposures, cements, mortars and concrete, raw materials, additives and fuels for cement, processes of manufacturing of cement, cement based on natural and artificial pozzolanas, fast-setting cements, special portland cements, packing of cement, storages of cement, ceramics, lime & limestone, glass & glass ceramics etc. It describes the manufacturing processes and photographs of plant & machinery with supplier’s contact details. It will be a standard reference book for professionals, entrepreneurs, those studying and researching in this important area and others interested in the field of these industries.
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