

Building Materials for **Construction**

(Stone, Bricks And Other Clay Products ,
Lime , Mortars, Concrete , Asbestos , Gray
Iron , Cast Iron, Steel Castings, Aluminium
And Magnesium Alloys, Ductile Iron ,
Malleable Iron , Resin, Wettability And Water
Repellency Of Wood , Architectural Paints ,
Flooring , Glass , Cement)

Introduction

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 king 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, watability 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.

Market outlook

The global market for construction materials is projected to exceed US \$ 1 trillion by 2020, driven by improving world economic outlook and recovering construction activity in residential, commercial and infrastructure sector. India's construction industry will continue to expand over the forecast period (2016–2020), with investments in residential, infrastructure and energy projects continuing to drive growth. The industry's output value in real terms is expected to rise at a compound annual growth rate (CAGR) of 5.65% over the forecast period; up from 2.95% during the review period (2011–2015). For August 2016, the construction final demand producer price index (PPI) was flat over July 2016, but is 0.7% above last year. The PPI for Inputs to construction industry goods was down -0.2% from last month and -1.7% from last year. After what will likely be 2% growth in 2016, overall construction costs are forecasted for ongoing growth in 2017 in the 2-3% range. These increases will be primarily led by gains in construction labor wages, which is forecasted for 3-4% in 2017.

Material costs are forecasted to have a 2-3% increase. Asphalt paving, fabricated steel and concrete block pricing should resume growth in 2017 after contractions in 2016. Gypsum products will experience the strongest growth of all materials with 6-7% increase in price.

Table of Contents

1. STONE

Introduction

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
Seasoning of Stones
Characteristics or Qualities of Stones
Characteristics of principle Building Stones
Properties
Decay or Deterioration of Stones
Preservation of Stone
Artificial Stone
Important point to be Considered before Starting
Quarrying
Methods of quarrying Stone

Methods of quarrying Stone
Various Operations of Blasting
Precautions in Blasting
Blasting materials
Making of Primer Cartridge
Storing of explosives
Handling of misfires
Dressing of Stone
Machines Required for Quarrying Stone

2. BRICKS AND OTHER CLAY PRODUCTS

Introduction
Brick Earth and its Constituents
Sources of Brick Earth
Qualities of Brick Earth

Chemical composition of Brick Earth
Functions of the constituents of Brick Earth
Harmful Ingredients
Pebbles of Stones and Gravel
Alkaline-Salts
Limestone and Kankar
Vegetation and Organic Matter
Manufacture of Clay Bricks
Selection of site
Preparation of Clay
Weathering Process
Tempering process
Moulding of bricks
Soft mud process
Procedure
Stiff Mud Process

Semi Dry Process

Drying of Bricks

Natural Drying

Artificial Drying

Burning of Bricks

Clamp

Intermittent Kilns

Continuous Kilns

Classification of Burnt Clay Bricks

Introduction

Properties of Burnt Clay Bricks

General Quality of Bricks

Dimensions and Tolerances

Water Absorption of Bricks

Efflorescence

Strength of Bricks

Testing of Bricks

Test for Compressive Strength

Test for Water Absorption

Test for efflorescence

Test for warpage

Special Bricks

Specially shaped Bricks

Burnt Clay Facing Bricks

Heavy Duty Bricks

Perforated building bricks

Sand lime Bricks

Sewer Bricks

Acid Resistant Bricks

Refractory Bricks

Manufacture

Acid bricks

Basic Bricks

Neutral Bricks

Building Tiles

Process for Manufacturing Roofing Tiles

Process for Manufacturing Flooring and Wall Tiles

Specifications for Building Tiles

Earthenwares

Glazed Earthenware Tiles

Terracotta

Stoneware

3. LIME

General

Properties of Lime

Uses of Lime

Source of Lime

Some Important Terms and their Definitions

Varieties of lime

Classification of Lime

Uses of fat lime

Classification of Lime According to I.S. 712-1984

Indian Standard Specification for Lime

Manufacturing process

Description of Each Stage of Operation

Field Control Test for Assessing Quality of Lime

Manufacture of Fat Lime

Advantages of continuous kiln

Manufacture of Natural Hydraulic Lime

Manufacture of Artificial Hydraulic Lime

Storage of Lime

Field Slaking of Lime and Preparation of Putty

Objective of Slaking

Slaking Process

Determining the Slaking Nature of Lime

Slaking Procedure for Quick Slaking Lime

Initial Preparation

Methods of Slaking Lime

General Precautions in Slaking

Slaking Procedure for Medium and Slow-slaking Limes

Running

Maturing

Making Coarse Stuff and Putty from Hydrated Lime or Powder

Coarse Stuff

Putty

Storage after slaking

Testing of Lime

Classification of binding materials
Precautions to be taken in handling lime
Properties of Lime

4. MORTARS

Definitions

Sand

Classification Based on Fineness

Bulking of Sand

Desirable Properties of Sand

Function of Sand in Mortars

Fineness Modulus of Sand

Tests for Sand

Selection of Sand for Use

Substitutes for Sand

Substitutes for Sand
Types of Mortars
Special Mortars
Properties of Good Mortar
Test for Mortars
Precautions in using Mortar

5. CONCRETE

Introduction
Lime Concrete
Preparation of lime Concrete
Laying of Lime Concrete
Properties of Lime Concrete
Use and Precautions

Water
Coarse Aggregate
Grading of Aggregate
Proportioning of Fine Aggregate to Coarse Aggregate
Maximum Size of the Aggregate
Measurement of Cement Concrete Ingredients
Significance of Bulking of Sand
Water Cement Ratio (W/C Ratio)
Proportioning of Concrete Mixes
Cube strength of Concrete
Properties of Cement Concrete
Slump Test
Factors Affecting Proportions of Concrete
Strength of Concrete
Mixing of Concrete
Transporting the Concrete

Placing of Concrete

Consolidation or Compaction of Concrete

Finishing

Curing of Concrete

Removal of Form Work

Joints in Concrete

Some other Types of Cement Concretes

Form Work

6. ASBESTOS

Introduction

Commercial Focus

Asbestos Sheets and Boards

Asbestos Cement Pipes

7. ASPHALT, BITUMEN AND TAR

Introduction

Terminology

Asphalt/Bitumen

Other Allied Terms

Bituminous Materials

Bitumen Felt/Tar Felt

Specifications and use

Other Bituminous Materials

Tests for Bitumen

Tar

8. GRAY IRON

The Metastable Iron-Iron Carbide System

Solidification of an Fe-C-Si Alloy

Chemical Composition Effects

Carbon

Silicon

Silicon Content and Graphitization

Sulfur and Manganese

Phosphorus

Gray-iron Specifications

Heat-treatment of Gray Iron

Machinability

Wear Resistance

Strength

Stress Relief

Alloying Elements

Effect on Microstructure

Chromium

Molybdenum, Molybdenum-Nickel

Nickel

Silicon

Copper

Aluminum and Titanium

Effect on Properties

9. CAST IRON

Definitions

Chemical Composition

Composition and Graphitization

Solidification Process

Microstructure

Graphite

Cementite

Ferrite

Pearlite

Steadite

Austenite

Properties of Cast Irons

White Irons

Chilled Iron

10. STEEL CASTINGS

Introduction

Molding Processes And Sands

Green-sand Molding

Refractoriness

High permeability and Low Moisture Content

Organic and Other Additions
Green-sand-molding Casing Defects
Dry-sand Molds and Skin-dried Molds
Other Types of Molds
Molding Methods
Cores
Hot-tear Formation
Metal penetration
Burn-on
Ceroxides
Core and Mold Washes

11. ALUMINIUM AND MAGNESIUM ALLOYS

Aluminum Alloying Principles
Copper

Heat-treatment of Cu-Al Alloys

Silicon

Magnesium

Magnesium and silicon

12. DUCTILE IRON

Solidification Of Ductile Iron

Development of Graphite Spheroids

Role of Magnesium

Control of the Common Elements

Carbon

Silicon

Sulfur

Phosphorus

Other Elements

Melting Practices
Acid Cupola Melting
Desulfurization
Basic Cupola Melting
Induction-furnace Melting
Magnesium Treatment
Inoculation
Engineering Properties

13. MALLEABLE IRON

Melting
Batch-Melting Process
Engineering Properties
Pearlitic Malleable Irons
Other Malleable Irons

14. RESIN CHARACTERIZATION

Introduction

cope

Mechanical Properties of a Partially Cured Resin "â€"

DMA Characterization

Chemical Advancement of a Partially Cured

Resin's Differential Scanning Calorimeter

Characterization

Chemical-Mechanical Relations

Moisture Content as a Variable

Flake Bonding

Measurement of Pressing Environments

Resin Penetration

Practical Application

15. THERMO-GRAVIMETRY OF WOOD REACTED WITH FLAME RETARDANTS

Introduction

Experimental Methods

Results and Discussion

Phosphorus And Nitrogen

Thermogravimetry

Flame Test

Conclusions

16. WETTABILITY AND WATER REPELLENCY OF WOOD

Introduction

Experimental

Wood materials

Automated surface tension analyzer

Computer program: wood wettability study

Graph

Contact angle from attractive force

Contact angle from work of adhesion

Surface free energy estimation

Interaction parameter calculation

Aging effect

Results and Discussion

Aging effect

Surface free energy estimates

Interaction parameter calculation

17. FLAME RETARDANT TREATMENT OF WOOD

Introduction

Materials and Methods

Preparation of specimens

Treatment of specimens

Leaching

Dimensional stability tests

Thermogravimetric analysis

Results and Discussion

Treatment of specimens

Leach resistance

Dimensional stability

Thermal degradation

Conclusions

18. FUNGAL AND TERMITE RESISTANCE OF WOOD

Introduction

Materials and Methods

Fungal evaluations

Termite evaluations

Reaction time and chemical analysis

Results and Discussion

Decay Resistance

Chemical Analysis

Conclusions

19. WEATHERING OF WOOD

Introduction

Early History
The Weathering Process
Weathering Factors
Property Changes
Weathering of Wood-Based Materials
Protection Against Weathering
Film-forming Materials
Penetrating Finishes
Summary

20. ARCHITECTURAL PAINTS

Introduction
Exterior Paints for Wood
Characteristics of Wood Siding
Binders for Exterior House Paints

Pigments for Colored Paints

Microorganisms in Paints and Coatings

Formulating Exterior Paints for Wood

Interior Paints for Plaster and Wallboard

Exterior Emulsion Paints for Masonry

Exterior Solution Type Paints for Masonry

Interior and Exterior Enamels

Enamels for Wood and Concrete Floors

21. BUILDING CONSTRUCTION ADHESIVES

Introduction

Advantage of Using Adhesives in Construction

Elastomeric Adhesives

Gap-Filling Phenol Resorcinol Adhesives

Polyurethane Adhesives

Resorcinol Resin Adhesives

Casein Adhesives

Polyvinyl Acetate Resin Emulsion

Phenolic Resin Adhesives

Melamine-Urea Resin Adhesives

Urea Resin Adhesives

Epoxy Resin Adhesives

Contact Cement

22. FLOORING

Domestic Flooring

Institutional Flooring

Industrial Flooring

Types Of Epoxy Flooring

Self-levelling Floors

Trowelled Floors

Epoxy Terrazzo

Future Developments In Epoxy Floors

23. MINING

Adhesion And Grouting

Remedial Uses

Concrete Crack Repair

Bonding Concrete to Concrete

Bonding Reinforcements

Epoxy Bonding in New Structures

Fire Resistance

Bulk Mechanical Properties

Creep

Miscellaneous Bonding Applications

24. GROUTS FOR LEVELLING: MISC. APPLICATIONS

Miscellaneous Applications

Soil consolidation

Tile grouts

Epoxy laminates for concrete moulds

Resin concrete

25. GLASS

Structure

Composition

Single-Phase Glasses

Properties

Manufacture and Processing

Economic Aspects

26. CEMENT

Clinker Chemistry

Hydration

Cement Paste Structure and Concrete Properties

Manufacture

Portland Cements

Special Purpose and Blended Cements

Nonportland Cements

Economic Aspects, Production, and Shipment

Specifications and Types

Uses

27. INSULATING MATERIALS

Introduction

Thermal Insulation

Terminology Related to Thermal Insulation

Requirements of Thermal Insulating Materials

Types of Insulating Materials

Air Spaces

Aerated Concrete

Gypsum

Expanded Blast Furnace Slag

Sprayed Asbestos

Vermiculite

Coconut Fibres

Cork Board

Rock Wool

Cellulose

Cellular Plastics
Fibre Glass
Sound Insulation
Terminology
Units of Sound
Velocity of Sound
Acoustics
Noise
Requirement of Sound Insulating Materials
Types of Acoustical Materials
Acoustic Pulp
Acoustical Plaster
Unifil Acoustical Plaster
Limpet Asbestos
Thermacoustic
Prefabricated Boards or Tiles
Glass Fibres
Composite Units

Tags

Building Materials, List of building materials, Construction and Building Materials, Building Materials in Construction, construction materials list, building construction material list, New Construction Materials for Modern Projects, Construction Materials for Flooring, Materials In Construction, Construction Materials Industry, Building and construction materials, Construction materials and products, building construction material, How to Make Clay Brick, Hydraulic lime, Natural Hydraulic Lime, Lime Concrete, What is lime concrete?, plum concrete, light weight concrete, air entrained concrete, vaccum concrete, water proof concrete, chilled irons, white irons, Making a Steel Casting, What Is A Steel Casting?, Steel castings manufacturing process, Green Sand Moulding, green sand moulding process, Portland Cement, Making Green Sand Molds, batch melting process, Weathering of wood, how to weather wood, formulating exterior paints for wood, domestic flooring, Institutional Flooring, industrial flooring India, how is glass made, Glass Manufacturing Process, Glass production, process for making Portland cement, How Portland Cement is Made?, Manufacturing Process of Portland Cement, What Is The Manufacturing Process Of Portland Cement?, Building Industry & Construction Materials, Stone, Bricks and Other Clay Products , Lime , Mortars, Concrete , Asbestos , Gray Iron , Cast Iron, Steel Castings, Aluminium and Magnesium Alloys, Construction Materials and Processes, Construction and construction materials, Construction Materials and Methods, Sustainable Construction Materials, Natural construction materials, Sustainable Construction Materials For Buildings, Sustainable construction,

Tags

buildings, materials, Sustainability of Construction Materials, material used in building construction, Manufacturing and Industrial Construction Projects, Manufacturing Building Construction Projects, Industrial and Manufacturing Construction Projects, construction manufacturing companies, Building Construction Projects, Manufacturing Construction, Commercial Building Construction Projects, Building Product Manufacturers, Construction Projects, Manufacturing construction project, Construction Companies, manufacturing plant construction, Products for architecture, architecture building materials, architecture materials for construction, material used for architecture, Constructing Architecture, ideas about Architectural Materials, Constructing Architecture Materials, Architecture, Building Materials, Architecture Materials, Constructing Architecture, Industrial and Manufacturing Construction, Effective Manufacturing Construction Project, Formation Materials, How to start construction material Processing Industry in India, Building materials Processing Industry in India, Most Profitable architecture materials Processing Business Ideas, Construction materials Processing Projects, Small Scale building materials Processing Projects, Starting a construction materials Processing Business, How to Start a manufacturing materials Production Business, Construction materials Based Small Scale Industries Projects, new small scale ideas in building materials processing industry, NPCS, Niir, Process technology books, Business consultancy, Business consultant, Project identification and selection, Preparation of Project Profiles, Startup, Business guidance, Business guidance to clients,

Tags

,Startup Project for building materials, Startup Project, Startup ideas, Project for startups, Startup project plan, Business start-up, Ductile Iron , Malleable Iron , Resin, Wettability and Water Repellency of Wood , Architectural Paints , Flooring, Glass, Cement, Business Plan for a Startup Business, Great Opportunity for Startup, Small Start-up Business Project, Start-up Business Plan for construction materials, Start Up India, Stand Up India, Building materials Making Small Business Manufacturing, Architecture materials making machine factory, Modern small and cottage scale industries, Profitable small and cottage scale industries, Setting up and opening your building materials Business, How to Start a construction materials?, How to start a successful building materials business, Small scale Commercial construction materials making, Best small and cottage scale industries, Building materials Business, Profitable Small Scale Manufacturing, Flooring Materials, flooring materials list, Construction Cement, Formation of rocks, How do rocks form?, Minerals, Rocks & Rock Forming Processes, Manufacturing of Bricks, Manufacturing Process of Clay Bricks, How brick is made material, production process, process for manufacturing flooring and wall tiles, Manufacturing process of tiles, Small Scale Production of Lime for Building, Lime production, lime manufacturing process, How Lime is Made?, Lime Production, burning of bricks, how clay bricks are made, Clay Bricks Manufacturing, Manufacturing And Preparation Of Bricks, How are bricks and roof tiles made?, brick manufacturing process,

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Building Materials for Construction

(stone, bricks and other clay products , lime , mortars, concrete , asbestos , gray iron , cast iron, steel castings, Aluminium and magnesium alloys, ductile iron , malleable iron , resin, wettability and water repellency of wood , architectural paints , flooring , glass , cement)

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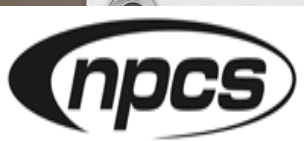
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- *We empower our customers with the prerequisite know-how to take sound business decisions*
- *We help catalyze business growth by providing distinctive and profound market analysis*
- *We serve a wide array of customers , from individual entrepreneurs to Corporations and Foreign Investors*
- *We use authentic & reliable sources to ensure business precision*



Our Approach

Requirement collection

Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation

Who do we serve?

- *Public-sector Companies*
- *Corporates*
- *Government Undertakings*
- *Individual Entrepreneurs*
- *NRI's*
- *Foreign Investors*
- *Non-profit Organizations, NBFC's*
- *Educational Institutions*
- *Embassies & Consulates*
- *Consultancies*
- *Industry / trade associations*

Sectors We Cover

- *Ayurvedic And Herbal Medicines, Herbal Cosmetics*
- *Alcoholic And Non Alcoholic Beverages, Drinks*
- *Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin*
- *Activated Carbon & Activated Charcoal*
- *Aluminium And Aluminium Extrusion Profiles & Sections,*
- *Bio-fertilizers And Biotechnology*
- *Breakfast Snacks And Cereal Food*
- *Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling*

- *Bamboo And Cane Based Projects*
- *Building Materials And Construction Projects*
- *Biodegradable & Bioplastic Based Projects*
- *Chemicals (Organic And Inorganic)*
- *Confectionery, Bakery/Baking And Other Food*
- *Cereal Processing*
- *Coconut And Coconut Based Products*
- *Cold Storage For Fruits & Vegetables*
- *Coal & Coal Byproduct*

- *Copper & Copper Based Projects*
- *Dairy/Milk Processing*
- *Disinfectants, Pesticides, Insecticides, Mosquito Repellents,*
- *Electrical, Electronic And Computer based Projects*
- *Essential Oils, Oils & Fats And Allied*
- *Engineering Goods*
- *Fibre Glass & Float Glass*
- *Fast Moving Consumer Goods*
- *Food, Bakery, Agro Processing*

- *Fruits & Vegetables Processing*
- *Ferro Alloys Based Projects*
- *Fertilizers & Biofertilizers*
- *Ginger & Ginger Based Projects*
- *Herbs And Medicinal Cultivation And Jatropha (Biofuel)*
- *Hotel & Hospitability Projects*
- *Hospital Based Projects*
- *Herbal Based Projects*
- *Inks, Stationery And Export Industries*

Sectors We Cover *Cont...*

- *Infrastructure Projects*
- *Jute & Jute Based Products*
- *Leather And Leather Based Projects*
- *Leisure & Entertainment Based Projects*
- *Livestock Farming Of Birds & Animals*
- *Minerals And Minerals*
- *Maize Processing(Wet Milling) & Maize Based Projects*
- *Medical Plastics, Disposables Plastic Syringe, Blood Bags*
- *Organic Farming, Neem Products Etc.*

Sectors We Cover *Cont...*

- *Paints, Pigments, Varnish & Lacquer*
- *Paper And Paper Board, Paper Recycling Projects*
- *Printing Inks*
- *Packaging Based Projects*
- *Perfumes, Cosmetics And Flavours*
- *Power Generation Based Projects & Renewable Energy Based Projects*
- *Pharmaceuticals And Drugs*
- *Plantations, Farming And Cultivations*
- *Plastic Film, Plastic Waste And Plastic Compounds*
- *Plastic, PVC, PET, HDPE, LDPE Etc.*

Sectors We Cover *Cont...*

- *Potato And Potato Based Projects*
- *Printing And Packaging*
- *Real Estate, Leisure And Hospitality*
- *Rubber And Rubber Products*
- *Soaps And Detergents*
- *Stationary Products*
- *Spices And Snacks Food*
- *Steel & Steel Products*
- *Textile Auxiliary And Chemicals*

- *Township & Residential Complex*
- *Textiles And Readymade Garments*
- *Waste Management & Recycling*
- *Wood & Wood Products*
- *Water Industry(Packaged Drinking Water & Mineral Water)*
- *Wire & Cable*

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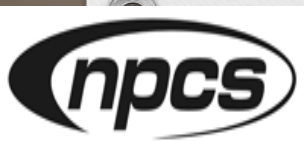
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