



PRODUCTION OF CONCRETE

ADMIXTURES (ADDITIVES).

CONSTRUCTION CHEMICALS.

ADMIXTURE.

CHEMICAL ADMIXTURES USED

IN CONCRETE.



Introduction

Admixtures are artificial or natural materials added to the concrete besides cement, water and aggregate to improve certain property of concrete during casting or setting or service stage.

A material other than water, aggregates, or cement that is used as an ingredient of concrete or mortar to control setting and early hardening, workability, or to provide additional cementing properties.

Admixtures are generally used to alter the properties of concrete (such as increased workability or reduced water content, acceleration or retardation of setting time, acceleration of strength development, and improved resistance to weather and chemical attacks) to make it more suitable for a particular purpose. For example, calcium chloride can be used to accelerate strength development in mass concrete during winter. Air-entraining admixtures (inexpensive soaps, detergents, etc.) entrain air which greatly improves the workability of concrete and thus permits the use of harsher and more poorly graded aggregates and also those of undesirable shapes.

Functions of Admixture

Major functions and advantages of using admixtures are detailed below:

- **To improve workability of fresh concrete**
- **To improve durability by entrainment of air**
- **To reduce the water required**
- **To accelerate setting & hardening & thus to produce high early strength**
- **To aid curing**
- **To impart water repellent / water proofing property**

- **To cause dispersion of the cement particles when mixed with water**
- **To retard setting**
- **To improve wear resistance (hardness)**
- **To offset / reduce shrinkage during setting & hardening**
- **To cause expansion of concrete and automatic prestressing of steel**
- **To aerate mortar / concrete to produce a light-weight product**
- **To impart colour to concrete**
- **To offset or reduce some chemical reaction**
- **To reduce bleeding**
- **To reduce the evolution of heat**

Concrete admixtures are used to enhance the properties of concrete for applications in concrete works with special requirements.

Concrete admixtures are used to modify the properties of concrete to achieve desired workability in case of low water cement ratio, and to enhance setting time of concrete for long distance transportation of concrete.

Market Outlook

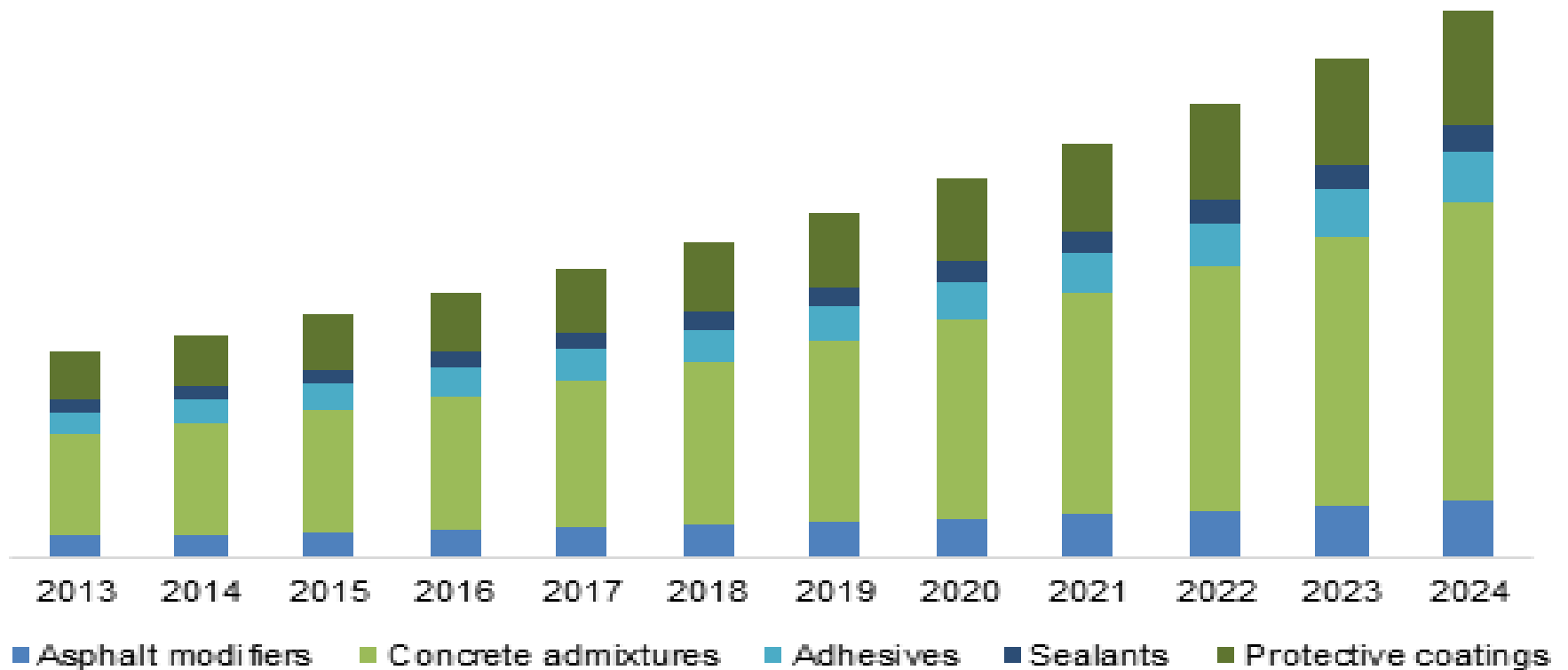
The demand for concrete admixtures is directly related to cement consumption trends. Some of the drivers of the concrete admixtures market are improving quality of construction in developing economies, increasing demand for high rise buildings, roads, bridges, tunnels and dams. Reduction in water usage and construction time is the major concerns of contractors and manufacturers, which could be rightly addressed by making effective use of concrete admixtures.

Indian admixtures market revenues are projected to grow at a CAGR of around 12% during 2014-19.

The worldwide concrete admixtures market, along with its applications, witnessed high growth in the past few years and is likely to continue so in the coming years. The drivers identified for the concrete admixtures demand are growing infrastructure requirements in developing economies, improving economics of construction, and shifting preferences of population towards urbanization. It is also influenced by consumer awareness, need for durable and aesthetic civil structure, and other benefits achieved in making concrete structures more economical for contractors and other stakeholders.

The market size, in terms of value, of concrete admixtures is estimated to be USD 11.68 Billion in 2015 and is projected to reach USD 18.10 Billion by 2020, at a CAGR of 9.15% between 2015 and 2020.

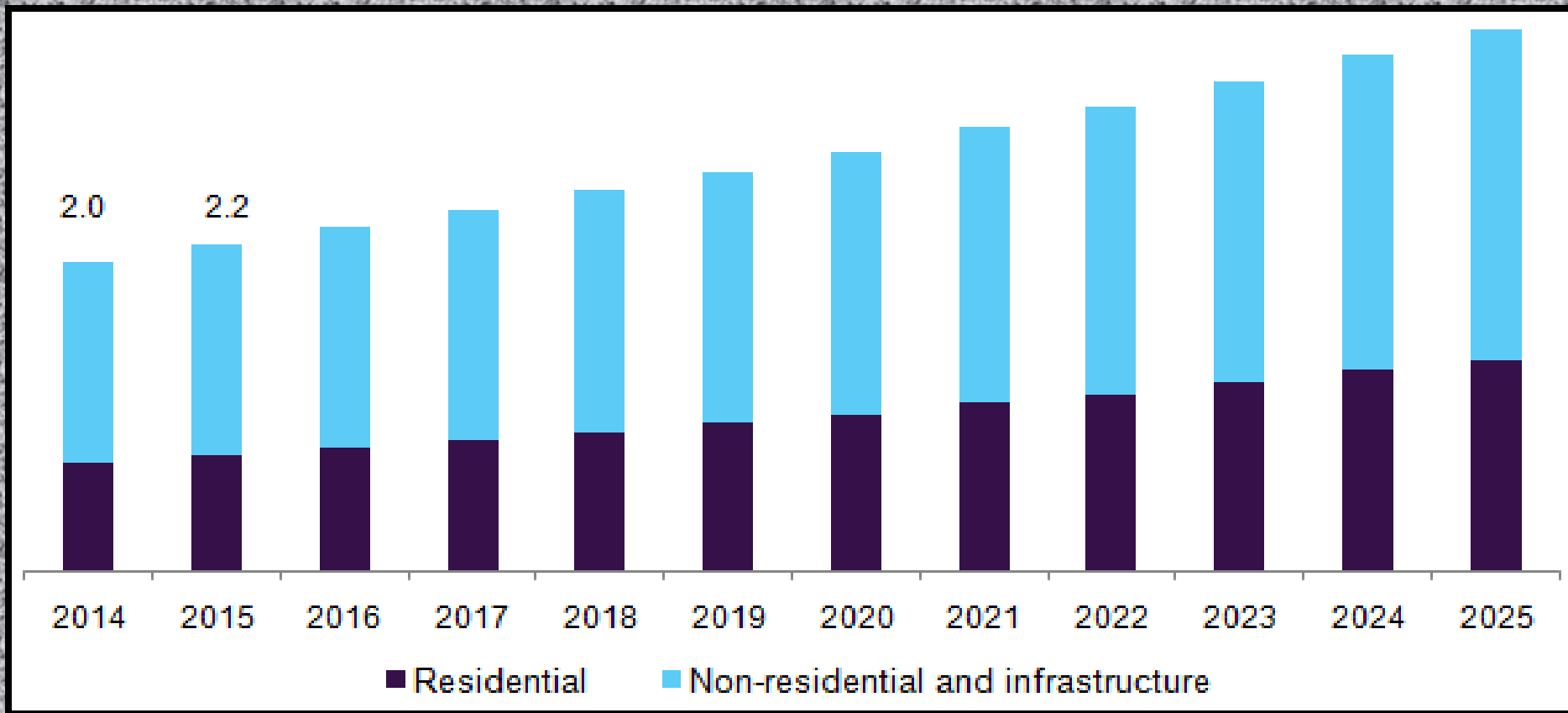
China Construction Chemicals Market Size, By Product, 2013 – 2024 (USD Million)



The Asia Pacific concrete admixtures market, along with its end products, has witnessed a linear growth in the past few years and this growth is estimated to increase in the coming years. Concrete admixtures are chemical formulations that are added to concrete at the initial mixing stage to enhance or modify the properties and workability of the mix. Concrete admixtures are used to enhance strength, durability, chemical resistance, and other properties, thus making concrete more suitable to satisfy the needs of modern civil structures. Concrete admixtures have found wide acceptance in the construction industry worldwide; especially for the construction of residential buildings, industrial amenities, and social and commercial complexes, and surface transportation infrastructure projects.

The concrete admixtures market in Asia Pacific has been experiencing significant growth in recent years, which is expected to continue in the near future, mainly driven by the highly growing demand from various end-use industries. Considerable amount of investments are being made by the various market players to serve the end-user applications in the future. China is the largest market for concrete admixtures market in the Asia-Pacific region, having accounted for 76.3% of the total Asia-Pacific demand in 2014.

U.S. Concrete Admixture Market Revenue by Application, 2014 - 2025 (USD Billion)



Cost Estimation

Capacity:	2000 Kgs/Day
Plant and Machinery cost:	8.00 Lakhs
Working Capital:	134.00
Rate of Return (ROR):	52.00 %
Break Even Point (BEP):	41.00 %
Cost of Project:	160.00Lakhs

Major Queries/Questions Answered in the Report?

- 1. What is Concrete Admixtures Manufacturing industry ?**
- 2. How has the Concrete Admixtures Manufacturing industry performed so far and how will it perform in the coming years ?**
- 3. What is the Project Feasibility of Concrete Admixtures Manufacturing Plant ?**
- 4. What are the requirements of Working Capital for setting up Concrete Admixtures Manufacturing plant ?**

- 5. What is the structure of the Concrete Admixtures Manufacturing Business and who are the key/major players ?**
- 6. What is the total project cost for setting up Concrete Admixtures Manufacturing plant ?**
- 7. What are the operating costs for setting up Concrete Admixtures Manufacturing plant ?**
- 8. What are the machinery and equipment requirements for setting up Concrete Admixtures Manufacturing plant ?**



9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Concrete Admixtures Manufacturing plant ?

10. What are the requirements of raw material for setting up Concrete Admixtures Manufacturing plant ?

11. Who are the Suppliers and Manufacturers of Raw materials for setting up Concrete Admixtures Manufacturing plant ?

12. What is the Manufacturing Process of Concrete Admixtures?



13. What is the total size of land required for setting up Concrete Admixtures Manufacturing plant ?

14. What will be the income and expenditures for Concrete Admixtures Manufacturing plant ?

15. What are the Projected Balance Sheets of Concrete Admixtures Manufacturing plant ?

16. What are the requirement of utilities and overheads for setting up Concrete Admixtures Manufacturing plant?

17. What is the Built up Area Requirement and cost for setting up Concrete Admixtures Manufacturing Business?

18. What are the Personnel (Manpower) Requirements for setting up Concrete Admixtures Manufacturing Business?

19. What are Statistics of Import & Export Concrete Admixtures?

20. What is the time required to break-even of Concrete Admixtures Manufacturing plant?

21. What is the Break-Even Analysis of Concrete Admixtures Manufacturing plant?

22. What are the Project financials of Concrete Admixtures Manufacturing plant?



23. What are the Profitability Ratios of Concrete Admixtures Manufacturing plant?

24. What is the Sensitivity Analysis-Price/Volume of Concrete Admixtures Manufacturing plant?

25. What are the Projected Pay-Back Period and IRR of Concrete Admixtures Manufacturing plant?

26. What is the Process Flow Sheet Diagram of Concrete Admixtures Manufacturing project?

- 27. What are the Market Opportunities for setting up Concrete Admixtures Manufacturing plant?**
- 28. What is the Market Study and Assessment for setting up Concrete Admixtures Manufacturing plant?**
- 29. What is the Plant Layout for setting up Concrete Admixtures Manufacturing Business?**

Table of Contents of the Project Report



PROJECT LOCATION

District Profile & Geotechnical Site Characterization

- 1.1.1. General
- 1.1.2. Location & Geographical Area
- 1.1.3. Topography
- 1.1.4. Administrative set up
- 1.1.5. Map
- 1.1.6. Industry at a Glance

INTRODUCTION

USES

- 1.1. Physical Requirements

B.I.S. SPECIFICATIONS

MARKET SURVEY

FINANCIALS & COMPARISON OF MAJOR INDIAN PLAYERS/COMPANIES



- 1.2. About Financial Statements of CMIE Database
- 1.3. Profits & Appropriations
- 1.4. Total Liabilities
- 1.5. Total Assets
- 1.6. Net Cash Flow from Operating Activities
- 1.7. Section – I
 - 1.7.1. Name of Company with Contact Details
 - 1.7.2. Name of Director(S)
 - 1.7.3. Plant Capacity
 - 1.7.4. Location of Plant
 - 1.7.5. Capital Expenditure Projects
 - 1.7.6. Name of Raw Material(S) Consumed With Quantity & Cost
- 1.8. Section – II
 - 1.8.1. Assets
 - 1.8.2. Cash Flow
 - 1.8.3. Cost as % Ge of Sales
 - 1.8.4. Forex Transaction
 - 1.8.5. Growth in Assets & Liabilities
 - 1.8.6. Growth in Income & Expenditure
 - 1.8.7. Income & Expenditure
 - 1.8.8. Liabilities

- 1.8.9. Liquidity Ratios
- 1.8.10. Profitability Ratio
- 1.8.11. Profits
- 1.8.12. Return Ratios
- 1.8.13. Structure of Assets & Liabilities (%)
- 1.8.14. Working Capital & Turnover Ratios

EXPORT & IMPORT STATISTICS DATA OF INDIA

- 1.9. Export Statistics Data Admixture of Concrete
- 1.10. Import Statistics Data Admixture of Concrete

PRESENT MANUFACTURERS

MANUFACTURING PROCESS

PROCESS FLOW DIAGRAM

SUPPLIERS OF RAW MATERIAL

SUPPLIERS OF PLANT & MACHINERY

MACHINERY, PRODUCT & RAW MATERIAL PHOTOGRAPHS

Machinery Photographs

Product Photographs

Raw Material Photographs

PLANT LAYOUT



Project Financials

• Project at a Glance	Annexure
• Assumptions for Profitability workings	1
• Plant Economics.....	2
• Production Schedule.....	3
• Land & Building.....	4
Factory Land & Building	
Site Development Expenses	

- **Plant & Machinery.....5**
 - Indigenous Machineries**
 - Other Machineries (Miscellaneous, Laboratory etc.)**

- **Other Fixed Assets.....6**
 - Furniture & Fixtures**
 - Pre-operative and Preliminary Expenses**
 - Technical Knowhow**
 - Provision of Contingencies**

- **Working Capital Requirement Per Month.....7**
 - Raw Material**
 - Packing Material**
 - Lab & ETP Chemical Cost**
 - Consumable Store**

- **Overheads Required Per Month and Per Annum.....8**
Utilities & Overheads (Power, Water and Fuel Expenses etc.)
Royalty and Other Charges
Selling and Distribution Expenses

- **Salary and Wages9**

- **Turnover Per Annum10**

- **Share Capital.....11**
Equity Capital
Preference Share Capital

- **Annexure 1 :: Cost of Project and Means of Finance**
- **Annexure 2 :: Profitability and Net Cash Accruals**
 - **Revenue/Income/Realisation**
 - **Expenses/Cost of Products/Services/Items**
 - **Gross Profit**
 - **Financial Charges**
 - **Total Cost of Sales**
 - **Net Profit After Taxes**
 - **Net Cash Accruals**

- **Annexure 3 :: Assessment of Working Capital requirements**

- **Current Assets**
- **Gross Working Capital**
- **Current Liabilities**
- **Net Working Capital**
- **Working Note for Calculation of Work-in-process**

- **Annexure 4 :: Sources and Disposition of Funds**

- **Annexure 5 :: Projected Balance Sheets**

- **ROI (Average of Fixed Assets)**
- **RONW (Average of Share Capital)**
- **ROI (Average of Total Assets)**

- **Annexure 6 :: Profitability Ratios**

- **D.S.C.R**
- **Earnings Per Share (EPS)**
- **Debt Equity Ratio**

• **Annexure 7 :: Break-Even Analysis**

- **Variable Cost & Expenses**
- **Semi-Variable/Semi-Fixed Expenses**
- **Profit Volume Ratio (PVR)**
- **Fixed Expenses / Cost**
- **B.E.P**

- **Annexure 8 to 11 :: Sensitivity Analysis-Price/Volume**

- **Resultant N.P.B.T**
- **Resultant D.S.C.R**
- **Resultant PV Ratio**
- **Resultant DER**
- **Resultant ROI**
- **Resultant BEP**

- **Annexure 12 :: Shareholding Pattern and Stake Status**

- **Equity Capital**
- **Preference Share Capital**

- **Annexure 13 :: Quantitative Details-Output/Sales/Stocks**

- **Determined Capacity P.A of Products/Services**
- **Achievable Efficiency/Yield % of Products/Services/Items**
- **Net Usable Load/Capacity of Products/Services/Items**
- **Expected Sales/ Revenue/ Income of Products/ Services/ Items**

- **Annexure 14** :: **Product wise Domestic Sales Realisation**
- **Annexure 15** :: **Total Raw Material Cost**
- **Annexure 16** :: **Raw Material Cost per unit**
- **Annexure 17** :: **Total Lab & ETP Chemical Cost**
- **Annexure 18** :: **Consumables, Store etc.**
- **Annexure 19** :: **Packing Material Cost**
- **Annexure 20** :: **Packing Material Cost Per Unit**

- **Annexure 21** :: **Employees Expenses**
- **Annexure 22** :: **Fuel Expenses**
- **Annexure 23** :: **Power/Electricity Expenses**
- **Annexure 24** :: **Royalty & Other Charges**
- **Annexure 25** :: **Repairs & Maintenance Expenses**
- **Annexure 26** :: **Other Manufacturing Expenses**
- **Annexure 27** :: **Administration Expenses**
- **Annexure 28** :: **Selling Expenses**

- **Annexure 29 :: Depreciation Charges – as per Books (Total)**
- **Annexure 30 :: Depreciation Charges – as per Books (P & M)**
- **Annexure 31 :: Depreciation Charges - as per IT Act WDV (Total)**
- **Annexure 32 :: Depreciation Charges - as per IT Act WDV (P & M)**
- **Annexure 33 :: Interest and Repayment - Term Loans**
- **Annexure 34 :: Tax on Profits**
- **Annexure 35 :: Projected Pay-Back Period and IRR**

Reasons for Buying our Report:

- **This report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product**
- **This report provides vital information on the product like it's characteristics and segmentation**
- **This report helps you market and place the product correctly by identifying the target customer group of the product**

- **This report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials**
- **The report provides a glimpse of government regulations applicable on the industry**
- **The report provides forecasts of key parameters which helps to anticipate the industry performance and make sound business decisions**

Our Approach:

- **Our research reports broadly cover Indian markets, present analysis, outlook and forecast for a period of five years.**
- **The market forecasts are developed on the basis of secondary research and are cross-validated through interactions with the industry players**
- **We use reliable sources of information and databases. And information from such sources is processed by us and included in the report**

Scope of the Report

The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on Concrete Admixtures ” provides an insight into the Concrete Admixtures market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Concrete Admixtures project. The report assesses the market sizing and growth of the Indian Concrete Admixtures Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line. And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

- **Good Present/Future Demand**
- **Export-Import Market Potential**
- **Raw Material & Manpower Availability**
- **Project Costs and Payback Period**

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in the Concrete Admixtures sector in India along with its business prospects. Through this report we have identified Concrete Admixtures project as a lucrative investment avenue.

Tags

Concrete Admixtures, Admixtures for Concrete, Production of Concrete Admixtures, Manufacturing Cost of Production of Concrete Admixtures, Concrete Admixture Manufacture, Concrete Admixtures Production Line, Concrete Admixtures Equipment, Concrete Admixtures Production Plant, Report on Concrete Admixtures Production, Concrete Admixture Production Plant, Concrete Admixture Manufacturing Process in India, Concrete Admixture Formulation, Formulation of Concrete Admixture, Manufacturing Process of Concrete Mixture, Concrete Admixture Manufacture in India, Manufacturing of Concrete Admixture, How to Start Manufacturing Company of Concrete Admixture, Raw Material of Concrete Admixture, Concrete Formulations and Admixtures, Concrete Admixture Formulation and Preparation, Admixtures for Construction Industry, Production Plant of Concrete Admixture, Concrete Admixtures Production project ideas, Projects on Small Scale Industries, Small scale industries projects ideas,

Concrete Admixtures Production Based Small Scale Industries Projects, Project profile on small scale industries, How to Start Concrete Admixtures Production Industry in India, Concrete Admixtures Production Projects, New project profile on Concrete Admixtures Production industries, Project Report on Concrete Admixtures Production Industry, Detailed Project Report on Concrete Admixtures Production, Project Report on Concrete Admixtures Production, Pre-Investment Feasibility Study on Concrete Admixtures Production, Techno-Economic feasibility study on Concrete Admixtures Production, Feasibility report on Concrete Admixtures Production , Free Project Profile on Concrete Admixtures Production, Project profile on Concrete Admixtures Production, Download free project profile on Concrete Admixtures Production, Industrial Project Report, Business guidance to clients, Startup Project for Concrete Admixtures Production, Concrete Admixtures (Additives), Chemical admixtures, Construction Chemicals, Admixture, Chemical Admixtures used in Concrete, Chemical Concrete Admixture

Niir Project Consultancy Services (NPCS)
can provide Detailed Project Report on
Production of Concrete Admixtures (Additives).
Construction Chemicals.
Admixture. Chemical Admixtures used in
Concrete.

See more

<https://goo.gl/mhqB2g>

<https://goo.gl/nTFSzX>

<https://goo.gl/JADPgW>



Visit us at

www.entrepreneurindia.co



www.entrepreneurindia.co

**Take a look at
Niir Project Consultancy Services
on #Street View**

<https://goo.gl/VstWkd>

*Locate us on
Google Maps*

<https://goo.gl/maps/BKkUtq9gevT2>

OUR CLIENTS

Our inexhaustible Client list includes public-sector companies, Corporate Houses, Government undertaking, individual entrepreneurs, NRI, Foreign investors, non-profit organizations and educational institutions from all parts of the World. The list is just a glimpse of our esteemed & satisfied Clients.

Click here to take a look

<https://goo.gl/G3ICjV>



Free Instant Online Project

Identification and Selection Service

Our Team has simplified the process for you by providing a "Free Instant Online Project Identification & Selection" search facility to identify projects based on multiple search parameters related to project costs namely: Plant & Machinery Cost, Total Capital Investment, Cost of the project, Rate of Return% (ROR) and Break Even Point % (BEP). You can sort the projects on the basis of mentioned pointers and identify a suitable project matching your investment requisites.....[Read more](#)



Download Complete List of Project

Reports:

▪ Detailed Project Reports

NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.

Our Market Survey cum Detailed Techno Economic Feasibility Report provides an insight of market in India. The report assesses the market sizing and growth of the Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line.



And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

- **Good Present/Future Demand**
- **Export-Import Market Potential**
- **Raw Material & Manpower Availability**
- **Project Costs and Payback Period**

The detailed project report covers all aspect of business, from analyzing the market, confirming availability of various necessities such as Manufacturing Plant, Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing Process, Machinery, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Production Schedule,



Working Capital Requirement, uses and applications, Plant Layout, Project Financials, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis. The DPR (Detailed Project Report) is formulated by highly accomplished and experienced consultants and the market research and analysis are supported by a panel of experts and digitalized data bank.

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in India along with its business prospects.....[Read more](#)



Contact us

NIIR PROJECT CONSULTANCY SERVICES

106-E, Kamla Nagar, Opp. Spark Mall,

New Delhi-110007, India.

Email: npcs.ei@gmail.com , info@entrepreneurindia.co

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595

Fax: +91-11-23845886

Website : www.entrepreneurindia.co , www.niir.org

Take a look at NIIR PROJECT CONSULTANCY SERVICES on #StreetView

<https://goo.gl/VstWkd>



Niir PROJECT CONSULTANCY SERVICES

An ISO 9001:2015 Company



www.entrepreneurindia.co

Who are we?

- *One of the leading reliable names in industrial world for providing the most comprehensive technical consulting services*
- *We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad*



We at NPCS want to grow with you by providing solutions scale to suit your new operations and help you reduce risk and give a high return on application investments. We have successfully achieved top-notch quality standards with a high level of customer appreciation resulting in long lasting relation and large amount of referral work through technological breakthrough and innovative concepts. A large number of our Indian, Overseas and NRI Clients have appreciated our expertise for excellence which speaks volumes about our commitment and dedication to every client's success.



We bring deep, functional expertise, but are known for our holistic perspective: we capture value across boundaries and between the silos of any organization. We have proven a multiplier effect from optimizing the sum of the parts, not just the individual pieces. We actively encourage a culture of innovation, which facilitates the development of new technologies and ensures a high quality product.



What do we offer?

- *Project Identification*
- *Detailed Project Reports/Pre-feasibility Reports*
- *Market Research Reports*
- *Business Plan*
- *Technology Books and Directory*
- *Industry Trend*
- *Databases on CD-ROM*
- *Laboratory Testing Services*
- *Turnkey Project Consultancy/Solutions*
- *Entrepreneur India (An Industrial Monthly Journal)*



How are we different ?

- *We have two decades long experience in project consultancy and market research field*
- *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

Contact us

NIIR PROJECT CONSULTANCY SERVICES

106-E, Kamla Nagar, Opp. Spark Mall,
New Delhi-110007, India.

Email: npcs.ei@gmail.com , info@entrepreneurindia.co

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595

Fax: +91-11-23845886

Website : www.entrepreneurindia.co , www.niir.org

Take a look at NIIR PROJECT CONSULTANCY SERVICES on #StreetView

<https://goo.gl/VstWkd>



Follow us



➤ <https://www.linkedin.com/company/niir-project-consultancy-services>



➤ <https://www.facebook.com/NIIR.ORG>



➤ <https://www.youtube.com/user/NIIRproject>



➤ <https://plus.google.com/+EntrepreneurIndiaNewDelhi>



➤ https://twitter.com/npcs_in



➤ <https://www.pinterest.com/npcsindia/>





For more information, visit us at:

www.niir.org

www.entrepreneurindia.co



www.entrepreneurindia.co