Production of Carbon Black.

Profitable Opportunities in Carbon Black Business.

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Introduction

Carbon black is a generic term for a particulate form of elemental carbon manufactured by the gas-phase pyrolysis and partial combustion of hydrocarbons. Carbon black is virtually pure elemental carbon in the form of colloidal particles that are produced by incomplete combustion or thermal decomposition of gaseous or liquid hydrocarbons under controlled conditions. Its physical appearance is that of a black, finely divided pellet or powder.
Carbon black is not soot or black carbon, which are the two most common, generic terms applied to various unwanted carbonaceous by-products resulting from the incomplete combustion of carbon-containing materials, such as oil, fuel oils or gasoline, coal, paper, rubber, plastics and waste material. Soot and black carbon also contain large quantities of dichloromethane- and toluene extractable materials, and can exhibit an ash content of 50% or more.
In most furnace reactors, the reaction rate is controlled by steam or water sprays. The carbon black produced is conveyed through the reactor, cooled, and collected in bag filters in a continuous process. Residual gas, or tail gas, from a furnace reactor includes a variety of gases such as carbon monoxide and hydrogen. Most furnace black plants use a portion of this residual gas to produce heat, steam, or electric power.

Carbon black is elemental carbon that is produced by partial combustion or decomposition of hydrocarbons such as oil and natural gas under controlled temperature and pressure. It mainly consists of carbon along with small amounts of hydrogen, oxygen, sulfur and nitrogen.
**Market Outlook**

The demand for carbon black in India stood at 984.63 thousand tonnes in 2018 and is projected to grow at a CAGR of 5.82% during 2019-2030 to reach 1853.84 thousand tonnes by 2030. Growth in the Indian packaging industry has increased the demand for carbon black in food packaging, industrial film, lamination and carrier bags and high-quality protective packaging applications. Furthermore, the Indian government's mission to make India a 100% electric vehicle nation by 2030 under the new National Electric Mobility Mission Plan is expected to push the demand for automobiles in the coming years.
This demand in turn would aid growth in ancillary industries such as tire industry, which use carbon black as their primary raw material. Moreover, the demand for industrial rubber such as in conveyor belts and hoses is anticipated to positively influence the demand for carbon black in India during 2019-2030.

Carbon black is elemental carbon that is produced by partial combustion or decomposition of hydrocarbons such as oil and natural gas under controlled temperature and pressure. It mainly consists of carbon along with small amounts of hydrogen, oxygen, sulfur and nitrogen. Carbon black is most commonly produced by the furnace method that provides high yield and substantial control over the particle structure and size of the output, making it ideal for mass production. It finds wide application across various industries such as automotive and paint. It is also used as a filler and a strengthening agent in tires and several rubber products.
The Indian carbon black market will intensify as the market comprises a small number of players and the growth is very high, which supplements rivalry. Also, there is possible threat of backward integration by tyre and automobile manufacturers which could diversify into carbon black manufacturing in near future. The rising imports from China also pose a big threat before the Indian manufacturers which could cause disruption of domestic industry.
The growing automotive industry is one of the key factors driving the market growth. Carbon black is extensively used in the inner liners, sidewalls and treads of tires as it increases their strength and longevity. It is also applied in various extruded and molded industrial rubber products such as air springs, belts, hoses, gaskets and types of conveyor wheels and grommets. Furthermore, the flourishing construction and manufacturing sectors are also driving the market growth. These sectors extensively utilize industrial rubber and other related equipment in which carbon black forms an integral part. Moreover, in the paints and coatings industry it is used in jet black paints which act as a protective coating to various products.
There has been an increase in the demand for carbon black in the construction industry. The global carbon black market to reach a value of US$ 14.5 Billion by 2024 registering a CAGR of around 3.6% during 2019-2024. The growing automotive industry is one of the key factors driving the market growth. Carbon black is extensively used in the inner liners, sidewalls and treads of tires as it increases their strength and longevity. It is also applied in various extruded and molded industrial rubber products such as air springs, belts, hoses, gaskets and types of conveyor wheels and grommets. Furthermore, the flourishing construction and manufacturing sectors are also driving the market growth. Increasing demand for specialty carbon black has prompted leading carbon black manufacturers to either increase their production capacity in the segment or convert the production line for standard carbon black to specialty carbon black. Increasing investment in tyre industry coupled with rising demand for specialty products is anticipated to propel growth in global carbon black market.
Carbon black is one of (the reinforces) that frequently used in tire industry owing to its effect on mechanical and dynamic properties of tires. It is used in various formulations with different rubber types to customize the performance properties of tires. It is used in various formulations with different rubber types to customize the performance properties of tires. Growth in the adoption of electric cars and self-driving cars is likely to act as an opportunity in the future. The market across the globe with the largest consumption from the countries such as China and India.
Key Players

- Phillips Carbon Black Limited,
- SKI Carbon Black India Private Limited,
- Continental Carbon India Limited,
- Ralson Carbon Black Limited,
- Birla Carbon
- Orion Engineered Carbon
- Cabot Corporation
- Jiangxi Black Cat Carbon Black Co. Ltd
- Aditya Birla Group,
- Omsktechuglerod OOO,
- OCI Company Ltd.
- China Synthetic Rubber Corporation (CSRC),
- Orion Engineered Carbons GmbH,
- Sid Richardson Carbon Co.,
- Shandong Huadong Rubber Materials Co., Ltd.
- Jiangxi Black Cat Carbon Black Co., Ltd.
Major Queries/Questions Answered in the Report?

1. What is Carbon Black Manufacturing industry?

2. How has the Carbon Black Manufacturing industry performed so far and how will it perform in the coming years?

3. What is the Project Feasibility of Carbon Black Manufacturing Plant?

4. What are the requirements of Working Capital for setting up Carbon Black Manufacturing plant?
5. What is the structure of the Carbon Black Manufacturing Business and who are the key/major players?

6. What is the total project cost for setting up Carbon Black Manufacturing Business?

7. What are the operating costs for setting up Cement Manufacturing plant?

8. What are the machinery and equipment requirements for setting up Carbon Black Manufacturing plant?
9. **Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Carbon Black Manufacturing plant?**

10. **What are the requirements of raw material for setting up Carbon Black Manufacturing plant?**

11. **Who are the Suppliers and Manufacturers of Raw materials for setting up Carbon Black Manufacturing Business?**

12. **What is the Manufacturing Process of Carbon Black?**
13. What is the total size of land required for setting up Carbon Black Manufacturing plant?

14. What will be the income and expenditures for Carbon Black Manufacturing Business?

15. What are the Projected Balance Sheets of Carbon Black Manufacturing plant?

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

17. What is the Built up Area Requirement and cost for setting up Carbon Black Manufacturing Business?
18. What are the Personnel (Manpower) Requirements for setting up Carbon Black Manufacturing Business?

19. What are Statistics of Import & Export for Carbon Black?

20. What is the time required to break-even of Carbon Black Manufacturing Business?

21. What is the Break-Even Analysis of Carbon Black Manufacturing plant?

22. What are the Project financials of Carbon Black Manufacturing Business?
23. What are the Profitability Ratios of Carbon Black Manufacturing Project?

24. What is the Sensitivity Analysis-Price/Volume of Carbon Black Manufacturing plant?

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

26. What is the Process Flow Sheet Diagram of Carbon Black Manufacturing project?
27. What are the Market Opportunities for setting up Carbon Black Manufacturing plant?

28. What is the Market Study and Assessment for setting up Carbon Black Manufacturing Business?

29. What is the Plant Layout for setting up Carbon Black Manufacturing Business?
Table of Contents of the Project Report
Our Detailed Project Report contains

- Introduction
- Properties
- Uses & Applications
- List of Plant & Machineries
- Miscellaneous Items and Accessories
- Instruments, Laboratory Equipments and Accessories
- Electrification, Electric Load and Water
- Maintenance, Suppliers/Manufacturers of Plant and Machineries
- Process of Manufacture
- Flow Sheet Diagram
➢ List of Raw Materials
➢ Availability of Raw Materials
➢ Requirement of Staff & Labour
➢ Skilled & Unskilled Labour
➢ Requirement of Land Area
➢ Built up Area
➢ Plant Layout.
➢ **Along with financial details as under:**

➢ **Assumptions for Profitability workings**
➢ Plant Economics
➢ Production Schedule
- Land & Building
- Factory Land & Building
- Site Development Expenses

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

- **Other Fixed Assets**
  - Furniture & Fixtures
  - Pre-operative and Preliminary Expenses
  - Technical Knowhow
  - Provision of Contingencies
Working Capital Requirement Per Month
- Raw Material
- Packing Material
- Lab & ETP Chemical Cost
- Consumable Store

Overheads Required Per Month And Per Annum
- Utilities & Overheads (Power, Water and Fuel Expenses etc.)
- Royalty and Other Charges
- Selling and Distribution Expenses
- Salary and Wages
- Turnover Per Annum
- Share Capital
- 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-Var./Semi-Fixed Exp.
- 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.

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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
Project Financials

- Project at a Glance
- Assumptions for Profitability workings
- Plant Economics
- Production Schedule
- Land & Building
  - Factory Land & Building
  - Site Development Expenses

Annexure
• 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
<table>
<thead>
<tr>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overheads Required Per Month and Per Annum</td>
<td>8</td>
</tr>
<tr>
<td>Utilities &amp; Overheads (Power, Water and Fuel Expenses etc.)</td>
<td></td>
</tr>
<tr>
<td>Royalty and Other Charges</td>
<td></td>
</tr>
<tr>
<td>Selling and Distribution Expenses</td>
<td></td>
</tr>
<tr>
<td>Salary and Wages</td>
<td>9</td>
</tr>
<tr>
<td>Turnover Per Annum</td>
<td>10</td>
</tr>
<tr>
<td>Share Capital</td>
<td>11</td>
</tr>
<tr>
<td>Equity Capital</td>
<td></td>
</tr>
<tr>
<td>Preference Share Capital</td>
<td></td>
</tr>
</tbody>
</table>
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- 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 its characteristics and segmentation.

• This report helps you market and place the product correctly by identifying the target customer group of the product.

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• 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.

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Scope of the Report

The report titled “Market Survey cum Detailed Techno Economic Feasibility Report on Carbon Black.” provides an insight into Carbon Black market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Carbon Black project. The report assesses the market sizing and growth of the Indian Carbon Black 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 Carbon Black sector in India along with its business prospects. Through this report we have identified Carbon Black project as a lucrative investment avenue.
Niir Project Consultancy Services (NPCS) can provide Detailed Project Report on Production of Carbon Black. Profitable Opportunities in Carbon Black Business.

See more

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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
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.
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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
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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

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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.
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- 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

1. Requirement collection
2. Thorough analysis of the project
3. Economic feasibility study of the Project
4. Market potential survey/research
5. Report Compilation
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