

# **Bicycle Tyre & Tubes Production from Natural Rubber.**

## **How to Start a Tire and Tubes Manufacturing Business**



[NPCS/4879/23005]

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# ***Introduction***

**Tyres are one of the most important components of a bicycle build. Bicycle tires perform an important function of eliminating the shock transferred through the front and rear wheels as they travel on uneven and rough surfaces; effectively gaining traction on the road so that the bicycle can travel properly and doesn't slip. It is also used for hand cycles and specially designed wheelchairs for racing purposes. The complete tire system provides ideal suspension, produces the longitudinal force essential for propulsion and braking, and creates the lateral force required for turning and balancing.**



**A bicycle tire is a tire that fits on the wheel of a bicycle, unicycle, tricycle, quadracycle, bicycle trailer, or trailer bike. They may also be used on wheelchairs and handcycles, especially for racing. Bicycle tires provide an important source of suspension, generate the lateral forces necessary for balancing and turning, and generate the longitudinal forces necessary for propulsion and braking. They are the second largest source, after air drag, of power consumption on a level road. The modern detachable pneumatic bicycle tire contributed to the popularity and eventual dominance of the safety bicycle.**



**There are various grips offered in the market, which enhance traction between the wheels and the road and increase performance at high speeds and on uneven and rough terrains. The recent removable pneumatic bicycle tire contributed to the acceptance and enhanced safety operation of bicycle. Over the years, with bicycles becoming more advanced and efficient, advanced bicycle tires have been developed to improve riding performance and capability. Over the several years manufacturers were keen on reducing the bicycle's body weight and enhancing strength, so it may travel at a desirable speeds.**



## **Tube**

**Bicycle tubes are the backbone of the bicycle industries. Few numbers of companies in organized sector are engaged in the quality grade cycles tyres and tubes and few unorganized sector also engaged to manufacturing bicycle tyre and tubes. An inner tube is basically a doughnut-shaped balloon, with a valve for inflation. The only requirement for an inner tube is that it should not leak. Being rubber, they have no rigid structure. If an inner tube is inflated outside of a tyre, it will expand to 2 or 3 times its nominal size, if it doesn't explode first. Without being surrounded by a tyre, an inner tube can't withstand any significant air pressure.**

## **Market Outlook**

**The bicycle tires market possesses a lot of potential for growth in the research and development division. Also, the market for bicycle tires has increased due to development in the overall bicycle market, as consumers are more attracted towards safety and riding comfort. In a bicycle, tires are the most important component and the replacement rate of the tires is high, owing to the high rate of friction between the tire and road. The aftermarket for replacement and services is projected to remain healthy over the forecast period as consumers will try to keep their bikes up to the mark. Moreover, in developed nations, the ability to ride at faster speeds with comfort is estimated to drive growth of the bicycle tires market in the near future.**

**Furthermore, growth in racing and adventure sports, such as dirt biking and off-road riding will fuel growth of the overall bicycle tires market in the coming future. Events, such as the Tour de France, Olympics and other bicycle professional races will propel growth in the bicycle tires market and force manufacturers to come up with new product and goods, which are more capable for ideal riding.**

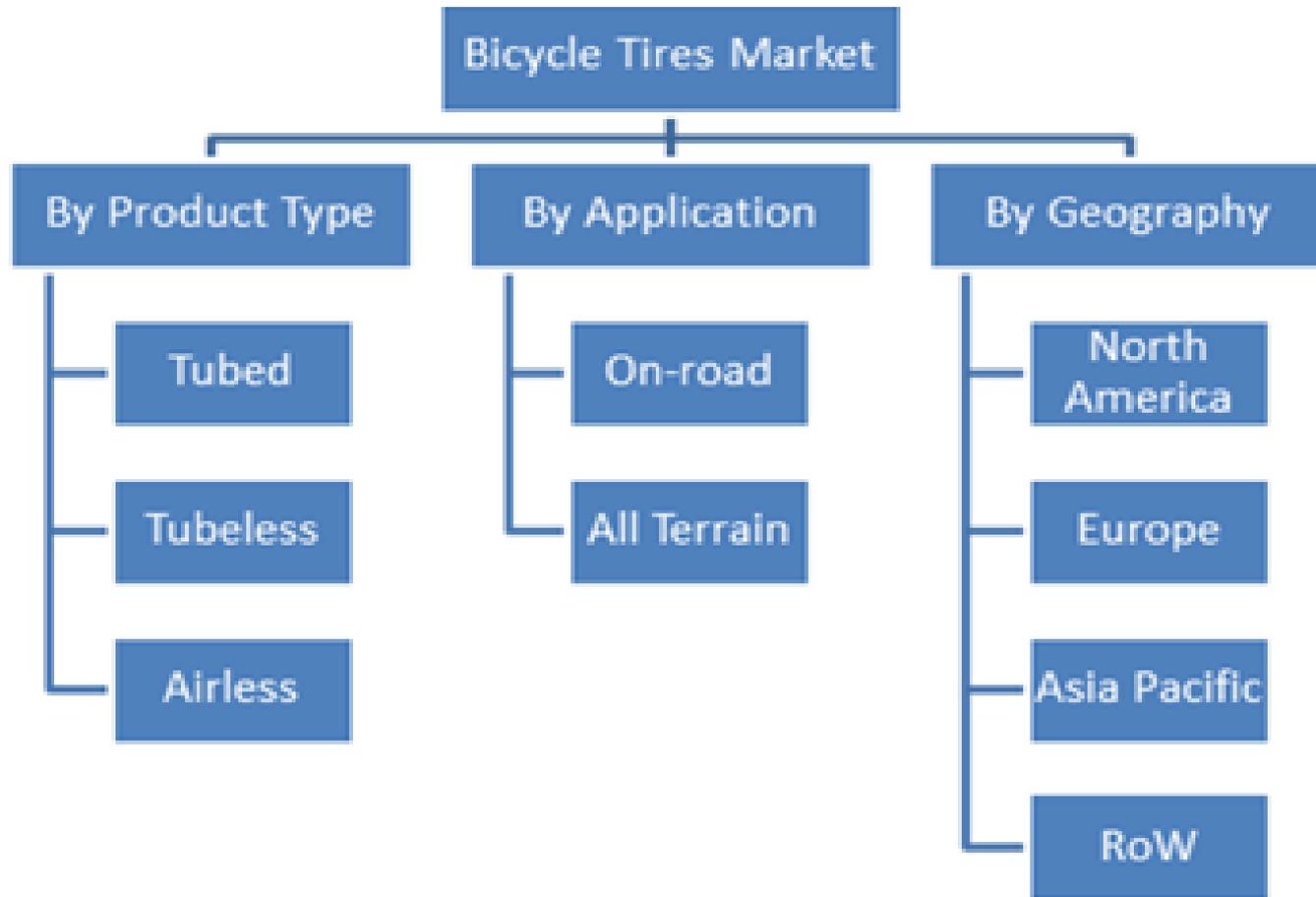
**The emergence of eco-friendly bicycle tires is one of the major trends being witnessed in the global bicycle tires market 2019-2023. The products used in manufacturing rubber compounds are polluting the environment.**



**The increasing air pollution is pushing manufacturers to reduce the emission from the manufacturing process. Thus, such environmental concerns have paved the way for innovation in terms of eco-friendly tires that are manufactured using pure rubber compounds and low-aromatic oils. Low-aromatic oils have low levels of harmful compounds, which makes them highly durable and non-carcinogenic.**



# Global Bicycle Tires Market Segmentation



**The bicycle tires market has been majorly driven by increasing users of bicycles in the recent years. Various factors such as environmental concerns, health and fitness, among others have compelled pedestrians to make use of bicycles for their regular commute. Thereby, the market has witnessed an increasing demand for new bicycles for various applications such as regular on-road use, off-road biking and sports. As a result, the bicycle tire market has been witnessing an increased demand for various types of on-road and off-road tires. Moreover, with ongoing product innovation in the tubeless and airless tires segments, the market is expected to witness significant growth during the forecast period.**

**The Growing popularity of premium bicycles around the world is attributable to the increasing acceptance of premium bicycle that provide better riding and safety features. These bicycles are built using advanced technologies and modern designs by incorporating high- end materials to offer comfort and durability. The major reason for the growth of premium bicycle is increasing average disposable income and increasing dual household income. The increasing demand for premium bicycles is increasing the demand for the high- quality components and uniqueness in the bicycle tire. Such factors increase the revenue of the bicycle tire manufactures. Therefore, the growing demand for premium bicycles is expected to drive the demand for the market.**



## Indian Tyre Industry

**The Indian Tyre industry is expected to show a healthy growth rate of 9-10% over the next five years. The domestic tyre industry is expected to post volumes growth of 7-8 per cent to 1,805 lakh tyres during FY2018.**

**Indian tyre industry has been reporting good growth figures over the past few years, spurred by the growing passenger vehicle and two-wheeler market. It has emerged as one of the most competitive markets in the world and with the emergence of new technology, ultra-modern production facilities and availability of raw materials, the sector is poised to grow further.**

# Two-Wheeler Tyres

## Demand : Past and Future

Year	(In Million No.)
1990-91	7.00
2000-01	20.70
2001-02	20.96
2002-03	25.70
2003-04	26.13
2004-05	28.25
2005-06	30.63
2006-07	35.90
2007-08	37.50
2008-09	41.25
2009-10	50.20
2010-11	63.75
2011-12	67.10
2012-13	65.50
2013-14	72.60
2014-15	76.25
2015-16	84.20
2016-17	91.50
2017-18	102.50
2018-19	115.00
2019-20	125.00
2024-25	195.00

## **Tyre Inner Tubes**

**Tyre inner tubes are the internal components of the primary tyre which are designed to sustain air pressure. Majority of the tyres which are used in motorcycles, bicycle and large vehicles such as tractors, heavy trucks, cars, and buses are designed for their application with inner tubes. These are made from impermeable materials such as synthetic, elastic, soft rubber for the purpose of avoiding air leakage and are torus shaped in nature. In addition, inner tubes which are larger in size possess the ability to be re used for other applications such as rafting and swimming. These tubes are large inflatable toruses which are manufactured for these applications while also offering a choice of decks, handles, fabric covering, colors and other various accessories, eliminating the protruding valve stem.**

**The global inner tube industry is dependent on raw materials such as rubber suppliers as well as the buyers which mainly include automotive manufacturers. More than half of the global rubber production goes into the manufacturing of automotive tyres. In addition, the inner tube and tyre industry serve as the largest application segment in the overall rubber industry.**



## **Few Indian Major Players are as under:**

- **MRF Limited Ltd.**
- **Apollo Tyres JK Tyre & Industries Ltd.**
- **Balkrishna Industries Ltd.**
- **TVS Srichakra Ltd Goodyear**
- **Govind Rubber Ltd.**
- **PTL Enterprises Ltd.**
- **Falcon Tyres Ltd.**

# Machinery Photographs



**RUBBER KNEADER**



**OPEN MIXING MILL**



**OPEN MIXING MILL**



**RUBBER EXTRUDER  
(EXTRUDER DIE)**

# Project at a Glance

## PROJECT AT A GLANCE

(` in lacs)

COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	5.60	5.60	Capital	0.00	161.42	161.42
Buildings	0.00	66.90	66.90	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	405.11	405.11	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	8.00	8.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	77.75	77.75	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	15.00	15.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	484.26	484.26
Preliminary & Pre-operative Exp	0.00	1.50	1.50	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	40.00	40.00	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	25.82	25.82				
<b>TOTAL</b>	<b>0.00</b>	<b>645.69</b>	<b>645.69</b>	<b>TOTAL</b>	<b>0.00</b>	<b>645.69</b>	<b>645.69</b>

# Project at a Glance

Year	Annualised		Book Value	Debt	Dividend	Retained Earnings		Payout	Probable Market Price	P/E Ratio	Yield Price/Book Value
	EPS	CEPS	Per Share		Per Share	Per Share		%		No.of Times	%
1-2	4.66	9.88	14.66	24.00	0.00	100.00	4.66	0.00	4.66	1.00	0.00
2-3	7.29	11.78	21.95	18.00	0.00	100.00	7.29	0.00	7.29	1.00	0.00
3-4	9.92	13.78	31.86	12.00	0.00	100.00	9.92	0.00	9.92	1.00	0.00
4-5	12.50	15.83	44.36	6.00	0.00	100.00	12.50	0.00	12.50	1.00	0.00
5-6	15.01	17.89	59.37	0.00	0.00	100.00	15.01	0.00	15.01	1.00	0.00

# Project at a Glance

Year	D. S. C. R.			Debt / Equity - Deposits Debt	Equity as-Equity	Total Net Worth	Return on Net Worth	Profitability Ratio					Assets Turnover Ratio	Current Ratio
	Individual	Cumulative	Overall					GPM	PBT	PAT	Net Contribution	P/V Ratio		
	(Number of times)			(Number of times)		%	%	%	%	%	%			
Initial				3.00	3.00									
1-2	1.42	1.42		1.64	1.64	1.98		21.74%	11.70%	9.44%	490.49	61.58%	1.15	0.95
2-3	1.67	1.54		0.82	0.82	1.08		26.05%	18.35%	12.66%	558.09	60.06%	1.28	1.45
3-4	1.99	1.68	1.99	0.38	0.38	0.58		28.97%	23.05%	15.07%	637.48	60.03%	1.32	2.05
4-5	2.37	1.83		0.14	0.14	0.30		30.97%	26.41%	16.89%	716.87	60.00%	1.30	2.73
5-6	2.84	1.99		0.00	0.00	0.13		32.34%	28.84%	18.25%	796.26	59.98%	1.23	6.10

# Project at a Glance

## BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	45.78%
Total BEP (% of Installed Capacity)	51.62%
IRR, PAYBACK and FACR	
Internal Rate of Return .. ( In %age )	26.47%
Payback Period of the Project is ( In Years )	2 Years 3 Months
Fixed Assets Coverage Ratio ( No. of times )	4.211

# Major Queries/Questions Answered in the Report?

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

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

- 9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Bicycle Tyre & Tubes Manufacturing plant ?**
- 10. What are the requirements of raw material for setting up Bicycle Tyre & Tubes Manufacturing plant ?**
- 11. Who are the Suppliers and Manufacturers of Raw materials for setting up Bicycle Tyre & Tubes Manufacturing Business?**
- 12. What is the Manufacturing Process of Bicycle Tyre & Tubes?**

- 13. What is the total size of land required for setting up Bicycle Tyre & Tubes Manufacturing plant ?**
- 14. What will be the income and expenditures for Bicycle Tyre & Tubes Manufacturing Business?**
- 15. What are the Projected Balance Sheets of Bicycle Tyre & Tubes Manufacturing plant ?**
- 16. What are the requirement of utilities and overheads for setting up Bicycle Tyre & Tubes Manufacturing plant?**
- 17. What is the Built up Area Requirement and cost for setting up Bicycle Tyre & Tubes Manufacturing Business?**

**18. What are the Personnel (Manpower) Requirements for setting up Bicycle Tyre & Tubes Manufacturing Business?**

**19. What are Statistics of Import & Export for Bicycle Tyre & Tubes?**

**20. What is the time required to break-even of Bicycle Tyre & Tubes Manufacturing Business?**

**21. What is the Break-Even Analysis of Bicycle Tyre & Tubes Manufacturing plant?**

**22. What are the Project financials of Bicycle Tyre & Tubes Manufacturing Business?**

- 23. What are the Profitability Ratios of Bicycle Tyre & Tubes Manufacturing Project?**
- 24. What is the Sensitivity Analysis-Price/Volume of Bicycle Tyre & Tubes Manufacturing plant?**
- 25. What are the Projected Pay-Back Period and IRR of Bicycle Tyre & Tubes Manufacturing plant?**
- 26. What is the Process Flow Sheet Diagram of Bicycle Tyre & Tubes Manufacturing project?**

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

# Table of Contents of the Project Report



## **1. PROJECT LOCATION**

- 1.1. DISTRICT PROFILE & GEOTECHNICAL SITE CHARACTERIZATION
  - 1.1.1. Introduction
  - 1.1.2. Geography
  - 1.1.3. Topography
  - 1.1.4. Demographics
  - 1.1.5. Map
  - 1.1.6. Road Infrastructure and Connectivity
  - 1.1.7. Education
  - 1.1.8. Industry At a Glance
  - 1.1.9. Economy

## **2. INTRODUCTION**

- 2.1. TYRE
- 2.2. TUBE
- 2.3. NATURAL RUBBER

## **3. USES OF NATURAL RUBBER**

## **4. PHYSICAL & MECHANICAL PROPERTIES**

## **5. COMPONENTS OF TYRE**

- 5.1. TYRE PRESSURE MONITORING SYSTEM

## **6. USES & APPLICATION OF TUBE & TYRES**

- 6.1. LABEL PLACEMENT

## **7. B.I.S. STANDARD**

- 7.1. IS 532:2006 BICYCLE TUBE VALVES AND VALVE – TUBING —SPECIFICATION (THIRD REVISION)
- 7.2. IS 2414: 2005 CYCLE AND RICKSHAW PNEUMATIC TYRES – SPECIFICATION (FOURTH REVISION)
- 7.3. IS 2415: 2004 CYCLE – RUBBER TUBE – SPECIFICATION (THIRD REVISION)
- 7.4. IS 2562: 1979 SPECIFICATION FOR RUBBER-BASED ADHESIVES FOR TYRES AND TUBES, CURING
- 7.5. IS 4824:2006 BEAD WIRE FOR TYRES — SPECIFICATION (SECOND REVISION)
- 7.6. IS 7133: 1985 SPECIFICATION FOR COTTON TYRE CORD AND WARP SHEET FOR CYCLE AND RICKSHAW
- 7.7. IS 11573: 1986 SPECIFICATION FOR POLYAMIDE YARN FOR CYCLE AND RICKSHAW TYRES

## **8. MARKET SURVEY**

- 8.1. TYRES
- 8.2. NEWLY EMERGING INDICATORS
- 8.3. CAR, JEEP AND TWO-WHEELER TYRES
- 8.4. LIGHT AND HEAVY COMMERCIAL VEHICLE TYRES
- 8.5. MARKET STRUCTURE
- 8.6. LEADING BRANDS
- 8.7. NYLON TYRE YARN

## **9. FINANCIALS & COMPARISON OF MAJOR INDIAN PLAYERS/COMPANIES**

- 9.1. ABOUT FINANCIAL STATEMENTS OF CMIE DATABASE
- 9.2. PROFITS & APPROPRIATIONS
- 9.3. TOTAL LIABILITIES
- 9.4. TOTAL ASSETS
- 9.5. NET CASH FLOW FROM OPERATING ACTIVITIES

- 9.6. SECTION – I
- 9.6.1. Name of Company with Contact Details
- 9.6.2. Name of Director(S)
- 9.6.3. Plant Capacity
- 9.6.4. Location of Plant
- 9.6.5. Name of Raw Material(S) Consumed With Quantity & Cost

9.7. SECTION – II

- 9.7.1. Assets
- 9.7.2. Cash Flow
- 9.7.3. Cost as % Ge of Sales
- 9.7.4. Forex Transaction
- 9.7.5. Growth in Assets & Liabilities
- 9.7.6. Growth in Income & Expenditure
- 9.7.7. Income & Expenditure
- 9.7.8. Liabilities
- 9.7.9. Liquidity Ratios
- 9.7.10. Profitability Ratio
- 9.7.11. Profits
- 9.7.12. Return Ratios
- 9.7.13. Structure of Assets & Liabilities (%)
- 9.7.14. Working Capital & Turnover Ratios

**10. EXPORT & IMPORT STATISTICS DATA OF INDIA**

- 10.1. EXPORT STATISTICS DATA FOR BICYCLE TYRE
- 10.2. IMPORT STATISTICS DATA FOR BICYCLE TYRE
- 10.3. EXPORT STATISTICS DATA FOR BICYCLE TUBE
- 10.4. IMPORT STATISTICS DATA FOR BICYCLE TUBE

## **11. EXPORT DATA: ALL COUNTRIES**

- 11.1. MULTICELLULR POLYURETHANE (MCP) TUBES TYRE USED ON BICYCLES
- 11.2. OTHER TYRES USED ON BICYCLES
- 11.3. INNER TUBES OF RUBBER USED ON BICYCLES

## **12. IMPORT DATA: ALL COUNTRIES**

- 12.1. MULTICELLULR POLYURETHANE (MCP) TUBES TYRE USED ON BICYCLES
- 12.2. OTHER TYRES USED ON BICYCLES
- 12.3. INNER TUBES OF RUBBER USED ON BICYCLES

## **13. PRESENT MANUFACTURERS**

## **14. RAW MATERIAL FOR INNER TUBES**

## **15. MANUFACTURING PROCESS OF TUBES**

## **16. PROCESS FLOW DIAGRAM OF TUBES**

## **17. INNER TUBE MEASUREMENTS**

## **18. RAW MATERIAL FOR TYRES**

## **19. MANUFACTURING PROCESS OF TYRE**

## **21. PROCESS FLOW DIAGRAM OF TYRE**

## **22. LABORATORY TESTING OF TYRES**



- 22.1. TESTS ON UNVULCANIZED RUBBER STOCKS
- 22.2. TESTS ON VULCANIZED RUBBERS
- 22.3. CHEMICAL TESTS
- 22.4. HAZARDS AND PRECAUTIONS

### **23. ENVIRONMENTAL AND PUBLIC HEALTH ISSUES**

- 23.1. AIR POLLUTION
- 23.2. GROUND AND WATER POLLUTION
- 23.3. WASTE WATER TREATMENT PROCESS

### **24. BUYER'S LIST**

- 24.1. CONTACT DETAILS OF BUYER'S
- 24.2. NAME OF DIRECTOR(S)
- 24.3. PLANT CAPACITY
- 24.4. LOCATION OF PLANT
- 24.5. COMPANY WISE CONSUMPTION DETAIL OF THE RAW MATERIALS

### **25. SUPPLIERS OF RAW MATERIAL**

### **26. SUPPLIERS OF PLANT & MACHINERY**

### **27. MACHINERY, PRODUCT & RAW MATERIAL PHOTOGRAPHS**

- 27.1. MACHINERY PHOTOGRAPHS
- 27.2. PRODUCT PHOTOGRAPHS
- 27.3. RAW MATERIAL PHOTOGRAPHS

### **28. PLANT LAYOUT**

### **29. QUOTATION OF PLANT, MACHINERY AND EQUIPMENTS FROM SUPPLIER**

# *Project Financials*

<b>Project at a Glance</b>	<b>Annexure</b>
• 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 Wages .....9**
  
- **Turnover Per Annum .....10**
  
- **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 Bicycle Tyre & Tubes.” provides an insight into Bicycle Tyre & Tubes market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Bicycle Tyre & Tubes project. The report assesses the market sizing and growth of the Indian Bicycle Tyre & Tubes 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 NPCCS, 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 Bicycle Tyre & Tubes sector in India along with its business prospects. Through this report we have identified Bicycle Tyre & Tubes project as a lucrative investment avenue.**

# Tags

#Bicycle\_Tires, #How\_are\_Bicycle\_Tires\_made, #Tyre\_Manufacturing\_Process\_Pdf, #Tyre\_Manufacturing\_Process\_PPT, #Bicycle\_Tires\_Production, Tyre Manufacturing Process Flow Chart, #Bicycle\_Tyres\_&\_Tubes\_from\_Natural\_Rubber, How are Bicycle Tyres Made, Tyre Manufacturing, Tyres Manufacturing Plant, Bicycle Tube Production, Bicycle Natural Rubber Tube, Profile on Production of Inner Tubes and Tires, Inner Tube Manufacturing Process Pdf, Rubber Tube Manufacturing Process, Bicycle Tyre & Tubes Production, Cycle Tubes Manufacture, Natural Rubber Tube Manufacture, Manufacturing of Tyres and Tubes, How to Start a Bicycle Tyres Manufacturing Business, Bicycle Tyres Manufacturing Plant, Bicycle or Cycle Tyre and Tube Manufacturing Industry, #Project\_Report\_on\_Bicycle\_Tyre\_&\_Tubes\_Production\_Industry, Detailed Project Report on Bicycle Tyre & Tubes Production, Project Report on Bicycle Tires, #Pre\_Investment\_Feasibility\_Study\_on\_Rubber\_Tube\_Manufacturing, Techno-Economic feasibility study on Bicycle Tyre & Tubes Production, #Feasibility\_report\_on\_Bicycle\_Tyre\_&\_Tubes\_Production, #Free\_Project\_Profile\_on\_Bicycle\_Tires, Project profile on Bicycle Tyre & Tubes Production, Download free project profile on Bicycle Tires, Production of Bicycle Tyre & Tubes

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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.

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

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**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**
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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](#)**



# Contact us

## **NIIR PROJECT CONSULTANCY SERVICES**

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

New Delhi-110007, India.

Email: [npcs.ei@gmail.com](mailto:npcs.ei@gmail.com) , [info@entrepreneurindia.co](mailto:info@entrepreneurindia.co)

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

Mobile: +91-9811043595

Fax: +91-11-23845886

Website : [www.entrepreneurindia.co](http://www.entrepreneurindia.co) , [www.niir.org](http://www.niir.org)

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# **Niir PROJECT CONSULTANCY SERVICES**

**An ISO 9001:2015 Company**



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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*



*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](mailto:npcs.ei@gmail.com) , [info@entrepreneurindia.co](mailto:info@entrepreneurindia.co)

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

Mobile: +91-9811043595

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