Production of Silk Braided Non-Absorbable Sutures.

Silk Surgical Sutures.

Black Braided Silk Sutures.

Nonabsorbable Surgical Suture Manufacturing Project.

Disposable Medical Surgical Sutures Production.
Silk Surgical Sutures
Introduction

Silk sutures are entwined thread from silk worm larva. Silk sutures are coated and braided non-absorbable sutures. Silk sutures are specially treated with silicone to give strength and smoothen the surface which provides easy passage through tissues.

Silk sutures are widely used as ligature and are also used for other applications like skin, ophthalmic, GI tract, etc. and are not indicated for use in biliary and urinary tract surgery. Silk sutures have moderate tissue reaction.
Black Braided Silk is a suture of natural origin, multifilament that meets the USP requirements. It is composed of an organic protein called fibroin. The high technology used in braided threads ensures high tensile compact strength, which provides longer time to support the tissue. It is available in black. It is sterilized by Ethylene Oxide.

Black Braided Silk Suture that is coated with silicon to allow easy passage through tissue, limit absorption and increase ductility. This type of suture has great knot pull strength and needle swage strength greater than USP limits.
Black Braided Silk is indicated in General Surgery, Dental Surgery, Plastic Surgery, Ophthalmic Cuticle Closure, Skin Closure, Closure General, Cardiovascular, Gastroenterology, Gastrointestinal, Gynecology/Obstetrics, Episiotomy, Neurosurgery and Bonding. Surgical Sutures are medical devices used to repair damaged tissue by closing the edges of a wound, holding body tissues together after an injury or surgery. A surgical suture made from a material unaffected by the biological activities of the body tissues, and therefore permanent unless removed.
Nonabsorbable sutures are designed to provide the maximum duration of the suture in the body without any tension reduction. This allows the wound to heal without any stress that can lead to tearing and subsequent scarring of the tissue. Like all types of sutures they have to be sterile and cause a minimum amount of tissue reaction. They also have to be uniform in diameter and size, resistant to fraying, and have the flexibility needed to remain knotted and in place. In the case of nonabsorbable sutures the material also has to be highly resistant to the natural biological response of the body to a foreign material. Instead of being absorbed by the body these sutures are encapsulated by fibroblasts to help retain the sutures in place for optimum wound healing.
Market Outlook

In 2016, Indian surgical suture Market was 1,052 Crore and is expected to grow at a CAGR of 5-6% in next five years. Many factors such as increasing number of surgical procedures, the rise in medical tourism and oncology surgeries have helped suture market grow in India, but it expected that advanced wound care techniques might replace suture up to certain extent.

Currently, Absorbable suture occupy ~60-65% of market share in entire suture market and will show high growth of ~7% whereas non-absorbable suture of ~4% during 2016-2021.
The Global Surgical Sutures Market size is projected to reach $5,255 million by 2022 from $3,360 million in 2015, growing at a CAGR of 6.4% during the forecast period.

The market growth is driven by the global surge in surgical procedures due to increased incidences of various chronic diseases and technological advancements in surgical suture products. However, lack of proper sterilization system in healthcare organizations and unfavorable taxation policies are expected to hinder the surgical sutures market growth.
The surgical sutures market is segmented by product type, application, and region. Based on product type, the market is broadly segmented into automated suturing devices and sutures. The sutures market dominated the market with 85.4% share in 2015 and is estimated to continue its dominance during the forecast period. By type, the global sutures market is bifurcated into absorbable sutures & non-absorbable sutures. Absorbable sutures are widely used in multiple surgeries, especially for surgeries performed on internal organs, as they are biodegradable and get hydrolyzed in the body tissue after a certain period of time. This segment accounts for the largest share of the sutures market in 2015 and is expected to be the fastest-growing market during the forecast period.
EQUIPMENTS IN LAB
Few Indian Major Players are as under

- Centenial Surgical Suture Ltd.
- HLL Lifecare Ltd.
- Johnson & Johnson Pvt. Ltd.
- TTK Medical Devices Ltd.
## Project at a Glance

### PROJECT AT A GLANCE

<table>
<thead>
<tr>
<th>COST OF PROJECT</th>
<th>MEANS OF FINANCE</th>
<th>(Rs. in lacs)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Particulars</strong></td>
<td><strong>Existing</strong></td>
<td><strong>Proposed</strong></td>
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<td>Buildings</td>
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<td>Plant &amp; Machineries</td>
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## Project at a Glance

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<th>Annualised</th>
<th>Book Value</th>
<th>Debt</th>
<th>Dividend</th>
<th>Retained Earnings</th>
<th>Payout</th>
<th>Probable Market Price</th>
<th>P/E Ratio</th>
<th>Yield</th>
<th>Price/Book Value</th>
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<tr>
<td></td>
<td>EPS (Rs)</td>
<td>CEPS (Rs)</td>
<td>Per Share (Rs)</td>
<td>Per Share (Rs)</td>
<td>Per Share %</td>
<td>Rs</td>
<td>%</td>
<td>Rs</td>
<td>No.of Times</td>
<td>%</td>
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## Project at a Glance

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<th>D. S. C. R.</th>
<th>Debt / Deposits Debt</th>
<th>Equity as Equity</th>
<th>Total Net Worth</th>
<th>Return on Net Worth</th>
<th>Profitability Ratio</th>
<th>Assets Turnover Ratio</th>
<th>Current Ratio</th>
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<tr>
<td>Individ Cumulative</td>
<td>Overall</td>
<td>(Number of times)</td>
<td>(Number of times)</td>
<td>%</td>
<td>%</td>
<td>%</td>
<td>%</td>
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<td>28.19%</td>
<td>13.49%</td>
<td>10.05%</td>
<td>113.6%</td>
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<td>1.63</td>
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<td>1.90</td>
<td>32.10%</td>
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<td>1.02</td>
<td>34.73%</td>
<td>24.78%</td>
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<td>1.91</td>
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<td>0.11</td>
<td>37.67%</td>
<td>30.44%</td>
<td>19.26%</td>
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# Project at a Glance

<table>
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<th>BEP</th>
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<tr>
<td>BEP - Maximum Utilisation Year</td>
<td>5</td>
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<tr>
<td>Cash BEP (% of Installed Capacity)</td>
<td>49.46%</td>
</tr>
<tr>
<td>Total BEP (% of Installed Capacity)</td>
<td>54.09%</td>
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<tr>
<td>IRR, PAYBACK and FACR</td>
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<tr>
<td>Internal Rate of Return .. ( In %age )</td>
<td>24.20%</td>
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<tr>
<td>Payback Period of the Project is ( In Years )</td>
<td>2 Years 4 Months</td>
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<tr>
<td>Fixed Assets Coverage Ratio ( No. of times )</td>
<td>3.356</td>
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Major Queries/Questions Answered in the Report?

1. **What is Black Braided Silk Sutures (Non–Absorbable Surgical Suture) Manufacturing industry?**

2. **How has the Black Braided Silk Sutures (Non–Absorbable Surgical Suture) Manufacturing industry performed so far and how will it perform in the coming years?**

3. **What is the Project Feasibility of Black Braided Silk Sutures (Non–Absorbable Surgical Suture) Manufacturing Plant?**

4. **What are the requirements of Working Capital for setting up Black Braided Silk Sutures (Non–Absorbable Surgical Suture) Manufacturing plant?**
5. What is the structure of the Black Braided Silk Sutures (Non–Absorbable Surgical Suture) Manufacturing Business and who are the key/major players?

6. What is the total project cost for setting up Black Braided Silk Sutures (Non–Absorbable Surgical Suture) Manufacturing plant?

7. What are the operating costs for setting up Black Braided Silk Sutures (Non–Absorbable Surgical Suture) Manufacturing plant?

8. What are the machinery and equipment requirements for setting up Black Braided Silk Sutures (Non–Absorbable Surgical Suture) Manufacturing plant?
9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Black Braided Silk Sutures (Non–Absorbable Surgical Suture) Manufacturing plant?

10. What are the requirements of raw material for setting up Black Braided Silk Sutures (Non–Absorbable Surgical Suture) Manufacturing plant?

11. Who are the Suppliers and Manufacturers of Raw materials for setting up Black Braided Silk Sutures (Non–Absorbable Surgical Suture) Manufacturing plant?

12. What is the Manufacturing Process of Black Braided Silk Sutures (Non–Absorbable Surgical Suture)?
13. What is the total size of land required for setting up Black Braided Silk Sutures (Non-Absorbable Surgical Suture) Manufacturing plant?

14. What will be the income and expenditures for Black Braided Silk Sutures (Non-Absorbable Surgical Suture) Manufacturing plant?

15. What are the Projected Balance Sheets of Black Braided Silk Sutures (Non-Absorbable Surgical Suture) Manufacturing plant?

16. What are the requirement of utilities and overheads for setting up Black Braided Silk Sutures (Non-Absorbable Surgical Suture) Manufacturing plant?

17. What is the Built up Area Requirement and cost for setting up Black Braided Silk Sutures (Non-Absorbable Surgical Suture) Manufacturing Business?
18. What are the Personnel (Manpower) Requirements for setting up Black Braided Silk Sutures (Non–Absorbable Surgical Suture) Manufacturing Business?

19. What are Statistics of Import & Export for Black Braided Silk Sutures (Non–Absorbable Surgical Suture)?

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23. What are the Profitability Ratios of Black Braided Silk Sutures (Non–Absorbable Surgical Suture) Manufacturing plant?

24. What is the Sensitivity Analysis-Price/Volume of Black Braided Silk Sutures (Non–Absorbable Surgical Suture) Manufacturing plant?

25. What are the Projected Pay-Back Period and IRR of Black Braided Silk Sutures (Non–Absorbable Surgical Suture) Manufacturing plant?

26. What is the Process Flow Sheet Diagram of Black Braided Silk Sutures (Non–Absorbable Surgical Suture) Manufacturing project?
27. What are the Market Opportunities for setting up Black Braided Silk Sutures (Non–Absorbable Surgical Suture) Manufacturing plant?

28. What is the Market Study and Assessment for setting up Black Braided Silk Sutures (Non–Absorbable Surgical Suture) Manufacturing plant?

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- Plant Economics
- Production Schedule
- Land & Building

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<table>
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<td>Other Manufacturing Expenses</td>
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<td>27</td>
<td>Administration Expenses</td>
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<td>28</td>
<td>Selling Expenses</td>
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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 Black Braided Silk Sutures (Non–Absorbable Surgical Suture)” provides an insight into the Black Braided Silk Sutures (Non–Absorbable Surgical Suture) market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Black Braided Silk Sutures (Non–Absorbable Surgical Suture) project. The report assesses the market sizing and growth of the Indian Black Braided Silk Sutures (Non–Absorbable Surgical Suture) 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 Black Braided Silk Sutures (Non–Absorbable Surgical Suture) sector in India along with its business prospects. Through this report we have identified Black Braided Silk Sutures (Non–Absorbable Surgical Suture) project as a lucrative investment avenue.
Silk Braided Surgical Sutures, Silk Surgical Suture, Silk Suture Manufacturing Technology, Surgical Sutures Manufacturing Company, Silk Suture Manufacturing Plant, Black Braided Silk Nonabsorbable Surgical Sutures, Nonabsorbable Surgical Suture, Black Braided Silk Surgical Suture Manufacture, Nonabsorbable Surgical Silk Sutures, Silk Braided Non-Absorbable Sutures, Production of Surgical Sutures, Disposable Medical Surgical Sutures Production, Manufacture of Surgical Suture, How Suture is Made?, Production of Sutures, Production of Absorbable Surgical Sutures, Surgical Suture Production, Process for Manufacture of Silk Surgical Suture, Surgical Suture Industry, Surgical Sutures Manufacturing Project, Medical Sutures, Silk Non-Absorbable Suture, Antibacterial Surgical Silk Sutures, Silk Braided Suture, Black Braided Silk Surgical Suture processing project ideas, Projects on Small Scale Industries, Small scale industries projects ideas, Black Braided Silk Surgical Suture Based Small Scale Industries Projects, Project profile on small scale industries, How to Start Black Braided Silk Surgical Suture Processing Industry in India, Non absorbable braided thread of Silk, Black Braided Silk Surgical Suture Processing Projects, New project profile on Black Braided Silk Surgical Suture processing industries, Project Report on Black Braided Silk Surgical Suture manufacturing Industry,
Niir Project Consultancy Services (NPCS) can provide Detailed Project Report on Production of Silk Braided Non-Absorbable Sutures. Silk Surgical Sutures. Black Braided Silk Sutures. Nonabsorbable Surgical Suture Manufacturing Project. Disposable Medical Surgical Sutures Production.

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- 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
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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

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