



# **Production of Disposable Surgical and Medical Face Mask.**

## **Single-Use Surgical and Procedure Masks Manufacturing Project**

# **Introduction**

***Surgical face masks are worn by health care professionals during surgery or while tending to patients in order to avoid contact with bacteria shed in the form of liquid droplets and aerosols from the mouth and nose or infectious blood and body fluids. Surgical face masks are used as a protective barrier to prevent cross-contamination among patients and surgeons. They are made mostly from non-woven fabric and are available in the two-layer and three-layer form.***



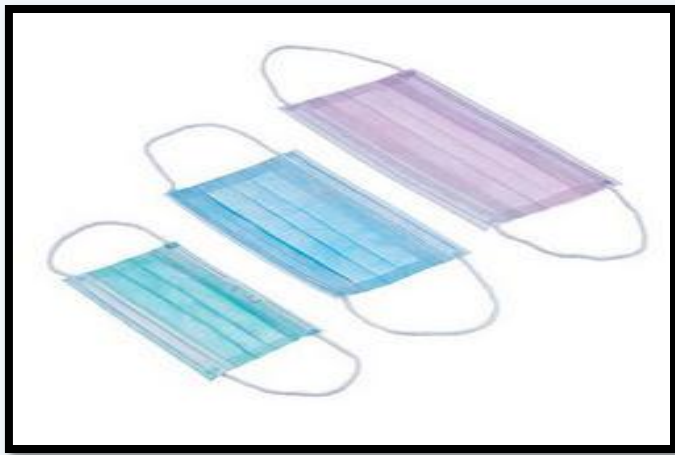
***The layers are ultrasonically welded for efficient bacterial filtration. Bacterial filtration efficiency (BFE) is the effectiveness of the surgical mask material to filter bacteria of a specified particle size. Particle filtration efficiency (PFE) is the effectiveness of a material to filter aerosol particles. Both BFE and PFE are expressed as a percentage of a quantity that does not pass through the material of the surgical mask.***



***Surgical face masks are used in operation theatres and every area of health care that requires patient inspection. Rise in awareness regarding airborne infections has led to an increase in usage of surgical face masks in not only large health care facilities but also smaller ones across the world. The usage of surgical face masks has increased among the general public owing to the rise in outbreaks of airborne diseases in recent times. The inevitable use of surgical face masks and lower threat of their substitutes are expected to propel the global surgical face masks market during the forecast period.***



***However, surgical face masks do not protect the wearer from inhaling airborne bacteria or viruses and are less effective than respirators. Respirators provide better protection than surgical face masks due to their design and tight sealing over the face. Substitution by respirators is estimated to restrain the global surgical face mask market during the forecast period.***



***A surgical mask, also known as a procedure mask, is intended to be worn by health professionals during surgery and during nursing to catch the bacteria shed in liquid droplets and aerosols from the wearer's mouth and nose. They are not designed to protect the wearer from inhaling airborne bacteria or virus particles and are less effective than respirators, such as N95 or NIOSH masks which provide better protection due to their material, shape and tight seal. Surgical masks are popularly worn by the general public in East Asian countries to reduce the chance of spreading airborne diseases.***

***Healthcare workers involved in treating and caring for individuals injured or sick as well as the patient can be exposed to biological aerosols capable of transmitting diseases. These diseases, which may be caused by a variety of microorganisms, can pose significant risks to life and health. Surgical face masks are used to cover the mouth and nose by doctors and other healthcare workers. It reduces the risk of contaminations from secretion of the mouth and nose in operation room or clinics. It is purposely to be worn by health care professionals during surgery and at same time to catch the bacteria shed in liquid droplets.***

***Surgical face masks (SFMs) provide a physical barrier between bacteria of oropharyngeal and nasopharyngeal origin and an open patient wound. Wearing a SFM in the OR is one of many long standing preventative practices, yet controversy exists as to the clinical effectiveness of SFMs in reducing the frequency of SSIs. Additionally, SFMs potentially protect OR staff by providing a physical barrier to infectious bodily fluid splashes from the patient. General purpose disposable SFMs however, are not specifically designed to protect the wearer from airborne infectious particulates. A review of clinical effectiveness and evidence-based guidelines for mask use in the OR can inform practice decisions to minimize the occurrence of SSIs and OR staph infections.***



***Increase in aging population, prevalence of hospital acquired infections (HAIs), and rise in demand of improved healthcare facilities in the developing economies drive the market. However, high cost associated with the preparation of different types of media culture restraint the market growth.***



***The global disposable medical masks market is segmented based on type, end user, and region. On the basis of type, the market is bifurcated into facemasks and respirators. Based on application, it is categorized into hospitals & clinics, industrial, individual and others. By region, the market is analyzed across North America, Europe, Asia-Pacific, and LAMEA.***



***The global surgical face mask market can be segmented based on distribution channel, end- user, and region. Healthcare professionals or the general public are the end users of surgical face masks. Surgical face masks are widely available through all distribution channels, and owing to the rise in number of outbreaks, the usage of surgical masks is expected to increase considerably in the near future. In terms of distribution channel, the global surgical face mask market can be segregated into independent pharmacies, online sales, hospital pharmacies, retail stores, and others.***

***Based on region, the global surgical face mask market can be segmented into North America, Europe, Asia Pacific, Latin America, and Middle East & Africa. North America, Europe, and Asia Pacific accounted for more than half the share of the global surgical face mask market in 2016. Asia Pacific is expected to account for a prominent share of the market in terms of volume during the forecast period, due to higher population, large number of airborne diseases, and awareness regarding postoperative surgical site infections in the region.***

***The surgical face mask market in Latin America and Middle East & Africa is anticipated to expand at a significant pace during the forecast period. Due to rise in requirement for cutting down health care costs, several health care professionals have begun to evaluate traditional methods of infection control, the prominent one of them being the usage of surgical face masks.***



# Machinery Photographs



**Face Mask Machine**



**Mask Inner Ear Loop Welding Machine**



**Non Woven Mask Blank Making Machine**



**Tie on Mask Making Machine**



# 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     | 102.00   | 102.00 | Capital                     | 0.00     | 48.56    | 48.56  |
| Buildings                      | 0.00     | 15.60    | 15.60  | Share Premium               | 0.00     | 0.00     | 0.00   |
|                                |          |          |        | Other Type Share            |          |          |        |
| Plant & Machineries            | 0.00     | 43.02    | 43.02  | Capital                     | 0.00     | 0.00     | 0.00   |
| Motor Vehicles                 | 0.00     | 4.00     | 4.00   | Reserves & Surplus          | 0.00     | 0.00     | 0.00   |
| Office Automation Equipments   | 0.00     | 14.00    | 14.00  | Cash Subsidy                | 0.00     | 0.00     | 0.00   |
| Technical Knowhow Fees & Exp.  | 0.00     | 5.00     | 5.00   | Internal Cash Accruals      | 0.00     | 0.00     | 0.00   |
| Franchise & Other Deposits     | 0.00     | 0.00     | 0.00   | Long/Medium Term Borrowings | 0.00     | 145.68   | 145.68 |
| Preliminary& Pre-operative Exp | 0.00     | 1.00     | 1.00   | Debentures / Bonds          | 0.00     | 0.00     | 0.00   |
| Provision for Contingencies    | 0.00     | 4.00     | 4.00   | Unsecured Loans/Deposits    | 0.00     | 0.00     | 0.00   |
| Margin Money - Working Capital | 0.00     | 5.62     | 5.62   |                             |          |          |        |
| TOTAL                          | 0.00     | 194.24   | 194.24 | TOTAL                       | 0.00     | 194.24   | 194.24 |



# Project at a Glance

| Year | Annualised |       | Book Value | Debt  | Divide nd | Retained Earnings |       | Payou t | Proba ble Marke t Price | P/E Ratio   | Yield Price/ Book Value |
|------|------------|-------|------------|-------|-----------|-------------------|-------|---------|-------------------------|-------------|-------------------------|
|      | EPS        | CEPS  | Per Share  |       | Per Share | Per Share         |       |         |                         | No.of Times |                         |
|      | `          | `     | `          | `     | `         | %                 | `     | %       | `                       |             | %                       |
| 1-2  | 4.00       | 6.23  | 14.00      | 24.00 | 0.00      | 100.00            | 4.00  | 0.00    | 4.00                    | 1.00        | 0.00                    |
| 2-3  | 6.25       | 8.18  | 20.25      | 18.00 | 0.00      | 100.00            | 6.25  | 0.00    | 6.25                    | 1.00        | 0.00                    |
| 3-4  | 8.43       | 10.12 | 28.68      | 12.00 | 0.00      | 100.00            | 8.43  | 0.00    | 8.43                    | 1.00        | 0.00                    |
| 4-5  | 10.54      | 12.02 | 39.22      | 6.00  | 0.00      | 100.00            | 10.54 | 0.00    | 10.54                   | 1.00        | 0.00                    |
| 5-6  | 12.56      | 13.85 | 51.78      | 0.00  | 0.00      | 100.00            | 12.56 | 0.00    | 12.56                   | 1.00        | 0.00                    |

# Project at a Glance

| Year    | D. S. C. R.       |            |         | Debt / Equity - Deposits Debt | 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     | 1.02              | 1.02       |         | 1.71                          | 1.71       | 1.85            |                     | 42.61 %             | 22.50 % | 15.65 % | 125.21           | 100.82 %  | 0.66                  | 0.42          |
| 2-3     | 1.25              | 1.13       |         | 0.89                          | 0.89       | 1.00            |                     | 47.39 %             | 31.94 % | 20.93 % | 141.79           | 97.86 %   | 0.75                  | 0.70          |
| 3-4     | 1.52              | 1.25       | 1.52    | 0.42                          | 0.42       | 0.51            |                     | 50.53 %             | 38.55 % | 24.73 % | 161.95           | 97.79 %   | 0.80                  | 1.20          |
| 4-5     | 1.84              | 1.38       |         | 0.15                          | 0.15       | 0.22            |                     | 52.57 %             | 43.25 % | 27.48 % | 182.10           | 97.75 %   | 0.81                  | 1.88          |
| 5-6     | 2.22              | 1.52       |         | 0.00                          | 0.00       | 0.06            |                     | 53.82 %             | 46.58 % | 29.47 % | 202.25           | 97.71 %   | 0.78                  | 8.04          |

# Project at a Glance

## BEP

|                                               |                  |
|-----------------------------------------------|------------------|
| BEP - Maximum Utilisation Year                | 5                |
| Cash BEP (% of Installed Capacity)            | 48.88%           |
| Total BEP (% of Installed Capacity)           | 51.98%           |
| IRR, PAYBACK and FACR                         |                  |
| Internal Rate of Return .. ( In %age )        | 14.60%           |
| Payback Period of the Project is ( In Years ) | 3 Years 2 Months |
| Fixed Assets Coverage Ratio ( No. of times )  | 1.407            |

# Major Queries/Questions Answered in the Report?

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

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

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

- 13. What is the total size of land required for setting up Disposable Surgical Masks Manufacturing plant ?**
- 14. What will be the income and expenditures for Disposable Surgical Masks Manufacturing Business?**
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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 Disposable Surgical Masks.” provides an insight into Disposable Surgical Masks market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Disposable Surgical Masks project. The report assesses the market sizing and growth of the Indian Disposable Surgical Masks 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 Disposable Surgical Masks sector in India along with its business prospects. Through this report we have identified Disposable Surgical Masks project as a lucrative investment avenue.**

## Tags

Surgical Face Masks Manufacturing, How to Manufacture Disposable Surgical Mask, Disposable Face Mask Making Unit, Surgical Mask Making Business, Surgical Mask Manufacturing Process, Disposable Surgical Face Mask Manufacture, Medical and Surgical Disposable Products, Disposable Masks Manufacture, Manufacturing Process of Surgical Mask, Surgical Mask Production, Manufacturing of Surgical Masks, Medical Mask Manufacture, Production of Surgical and Medical Mask, Disposable Surgical Face Mask Production, Surgical Masks Manufacturing Plant, Medical Mask Manufacture, Disposable Surgical Face Mask Manufacturing Unit, Surgical Face Mask Manufacturing Process, Production of Surgical Mask, Surgical Face Mask Making Plant, Surgical Mask Manufacturing Plant, Surgical Mask Manufacturing Business, How to Start Production of Surgical Mask Manufacturing Business, Production of Non-Woven Surgical Face Mask, Face Mask Production Unit, Surgical Mask Production, Automatic Surgical Mask Production, Medical Surgical Mask Production, Surgical Face Masks Manufacturing project ideas, Projects on Small Scale Industries,



Small scale industries projects ideas, Surgical Face Masks Manufacturing Based Small Scale Industries Projects, Project profile on small scale industries, How to Start Surgical Face Masks Manufacturing Industry in India, Surgical Face Masks Manufacturing Projects, New project profile on Surgical Face Masks Manufacturing industries, Project Report on Surgical Face Masks Manufacturing Industry, Detailed Project Report on Medical Surgical Mask Production, Project Report on Medical Surgical Mask Production, Pre-Investment Feasibility Study on Medical Surgical Mask Production, Techno-Economic feasibility study on Surgical Mask Production, Feasibility report on Medical Surgical Mask Production, Free Project Profile on Surgical Mask Production, Project profile on Medical Surgical Mask Production, Download free project profile on Surgical Mask Production, Startup Project for Medical Surgical Mask Production, Project report for bank loan, Project report for bank finance, Project report format for bank loan in excel, Excel Format of Project Report and CMA Data, Project Report Bank Loan Excel, Production of Disposable Surgical Face Mask, Medical Surgical Mask (Procedure Mask) Manufacturing Plant

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**and Medical Face Mask.**  
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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.**

**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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- *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

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