



# Biomedical Waste Recycling Industry.

Start a Medical or Hospital  
Waste Management Business

[NPCS/4843/22947]

# Introduction

**Biomedical waste (BMW) is any waste produced during the diagnosis, treatment, or immunization of human or animal research activities pertaining thereto or in the production or testing of biological or in health camps. It follows the cradle to grave approach which is characterization, quantification, segregation, storage, transport, and treatment of BMW.**



**Biomedical waste is classified as a biohazard because of the disease that it might contain. Medical waste contains materials that have been contaminated by body fluids and may contain viruses, bacteria and even harmful drugs such as chemotherapy and radiation drugs. The importance of biomedical waste management should be high on any medical facility's training and safety procedures.**



## **Bio Medical waste consists of**

- **Human anatomical waste like tissues, organs and body parts**
- **Animal wastes generated during research from veterinary hospitals**
- **Microbiology and biotechnology wastes**
- **Waste sharps like hypodermic needles, syringes, scalpels and broken glass**
- **Discarded medicines and cytotoxic drugs**
- **Soiled waste such as dressing, bandages, plaster casts, material contaminated with blood, tubes and catheters**
- **Liquid waste from any of the infected areas**
- **Incineration ash and other chemical wastes**

**Biomedical waste can be disposed of through incineration or decontamination by heating with steam under pressure in an autoclave. Trash chutes must not be used for the transfer or disposal of biomedical waste.**



## ***Classification of Biomedical Waste***

**Approximately 75-90% of the biomedical waste is non-hazardous and as harmless as any other municipal waste. The remaining 10-25% is hazardous and can be injurious to humans or animals and deleterious to environment. It is important to realize that if both these types are mixed together then the whole waste becomes harmful.**

- **Non Hazardous Waste**

**This constitutes about 85% of the waste generated in most healthcare set-ups. This includes waste comprising of food remnants, fruit peels, wash water, paper cartons, packaging material etc.**

- **Hazardous Waste**

**Biohazard: Biological hazards, also known as biohazards, refer to biological substances that pose a threat to the health of living organisms, primarily that of humans. This can include medical waste or samples of a microorganism, virus or toxin (from a biological source) that can impact human health. It can also include substances harmful to animals. The term and its associated symbol is generally used as a warning, so that those potentially exposed to the substances will know to take precautions.**





# Market Outlook

**India is likely to generate about 775.5 tonnes of medical waste per day by 2022 from the current level of 550.9 tonnes daily.**

**Bio-medical waste in India is projected to grow at a rate higher than the overall healthcare services market driven by the expansion of the increasing awareness, improving efficiencies in the system, medical tourism, number of clinics, hospitals, rising of the ageing population and new BMW guidelines.**





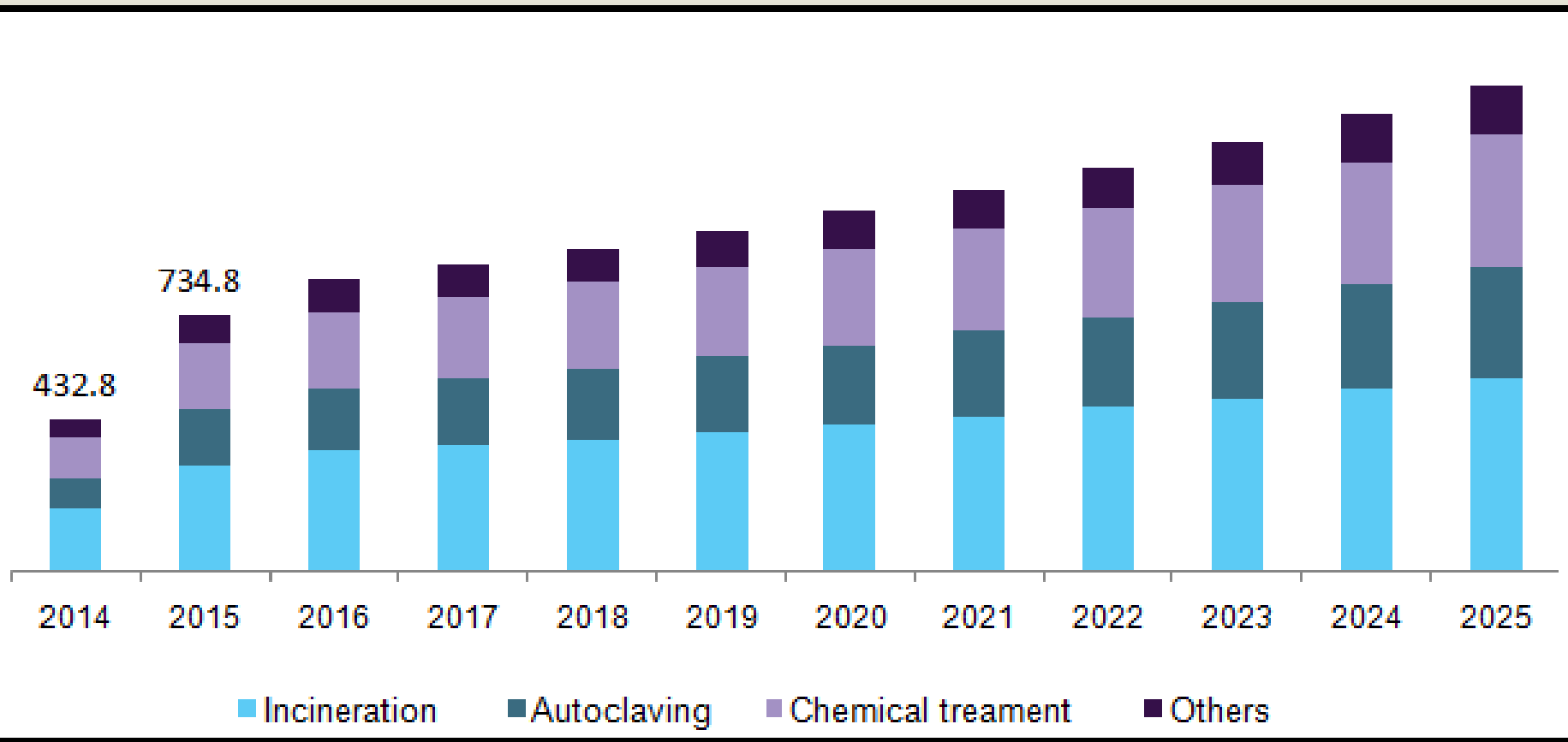
**Medical waste is the waste generated from hospitals, clinics, dental hospitals, veterinary hospitals, blood banks, and medical research institutes, laboratories .The waste may be generated during various treatments and surgeries, it may be generated during test, production or any biological research. Medical waste does not confine to used syringes and other surgical instruments but all the processes, testing and production of various biological operations.**

**Global Medical Waste Management Market is estimated to reach \$26.9 Billion by 2025; growing at a CAGR of 5.6% from 2017 to 2025.**



**Medical waste management states to the suitable processing of waste materials produced by the healthcare institutions. These waste materials are generated at, hospitals, research institutions, health care teaching institutes, clinics, laboratories, blood banks, animal houses and veterinary institutes. Health-care waste comprises all the wastes produced by medical activities. It holds activities of diagnosis, curative and palliative, preventive treatments in the field of veterinary medicine and human. In addition, it includes the same types of waste originating from minor and scattered sources, including waste produced in the course of health care undertaken in the home (e.g. home dialysis, self-administration of insulin, recuperative care).**

# China Medical Waste Management Market, By Treatment, 2014 - 2025 (USD Million)



**The development of innovative manufacturing techniques for drugs and medical devices in the pharmaceuticals industry is growing rapidly. Furthermore, the growth of market is also reflected by the efficient supply of inventories required in day-to-day functioning of hospitals, clinics, and diagnostic centers. This results in generation of more waste. These by products and residues need a proper system or service for collection, transportation, disposal, and recycling of specific materials or byproducts, if required.**



**Given the growing amount of all types of medical wastes, globally, and increasing regulatory pressure to properly dispose these wastes in a non-hazardous way, the global medical waste management market is expected to grow at a steady pace in the coming years. Medical waste refers to the waste originated within medical amenities, such as hospitals, clinics, veterinary hospitals/clinics, dental practices, physician's offices, laboratories, pharmaceutical industry, and blood banks. There are several types of medical wastes including hazardous (such as infectious, radioactive, or toxic), universal, bio hazardous (such as, red bag medical waste and sharps containers), and solid. The process of medical waste management includes transportation, treatment or destruction, disposal, and documentation of waste generated from the facility.**

**Growing volume of medical waste, increasing focus on the management of medical waste, and stringent regulatory framework to manage these wastes safely and in an ecofriendly way are some of the factors driving the medical waste management industry.**

**There are numerous factors driving, restraining and generating opportunities for the world medical waste management market. Rising concerns over employing eco-friendly and safe waste management and treatment process is likely to drive the market in years to come. In addition, the growing healthcare industry would generate more medical waste thereby, generating opportunity for the market. However, lack of awareness about the health hazards associated with medical waste, lack of training for proper disposal coupled with inadequate funds have hindered market growth of world medical waste management.**

**The market is segmented in terms of disposal or treatment site, type of waste, service, treatment and geography. The treatment site for medical waste disposal can either be offsite or onsite. On the other hand, waste materials are classified as hazardous and non-hazardous waste. The market is also bifurcated in terms of waste treatment services which include collection storage, recycling & transportation, recycling and disposal of the waste. These waste could be treated by chemical treatment, incineration & autoclaving and others. On the basis of geography, the report segments the world medical waste management market into North America, Europe, Asia Pacific and LAMEA.**



**Growing geriatric population requiring health care products and services, increasing incidence and prevalence of infectious and lifestyle diseases, expanding health care infrastructure, changing lifestyles, enforcement of various regulations for the management of biomedical waste, and increasing awareness about safety and security against the hazards caused by biomedical wastes are some factors driving the global biomedical waste management market. However, high cost of services provided by biomedical waste management players, lack of education to workers handling the waste and health care workers about importance of biomedical waste treatment and disposal are factors restraining the market.**

# Global Medical Waste Management Market Revenue, By Region, 2017 (US\$ Mn)



**Some of the major players operating in global medical waste management industry include, BioMedical Waste Solutions LLC, Clean Harbors Inc., Daniels Sharpsmart Inc., Hawaii Bio-Waste Systems Inc. (HBW), Healthcare Environmental Services Group, Medclean Technologies Inc., Medasend Biomedical Inc., Miller Group, Republic Services Inc., REMONDIS SE & Co. KG, Suez Environnement S.A., Sharps Compliance Inc., Waste Management Inc., Stericycle Inc., and Gamma Waste Systems.**

## Biomedical



# Machinery Photographs



**BIOMEDICAL WASTE TREATMENT  
AUTOCLAVES**



**PLASTIC WASTE RECYCLING UNIT**



**BOILER**



**AIR COMPRESSOR**

# Project at a Glance

PROJECT AT A GLANCE				(Rs. in lacs)			
COST OF PROJECT				MEANS OF FINANCE			
Particulars	Existing	Proposed	Total	Particulars	Existing	Proposed	Total
Land & Site Development Exp.	0.00	245.00	245.00	Capital	0.00	295.45	295.45
Buildings	0.00	449.00	449.00	Share Premium	0.00	0.00	0.00
Plant & Machineries	0.00	214.00	214.00	Other Type Share Capital	0.00	0.00	0.00
Motor Vehicles	0.00	25.00	25.00	Reserves & Surplus	0.00	0.00	0.00
Office Automation Equipments	0.00	158.50	158.50	Cash Subsidy	0.00	0.00	0.00
Technical Knowhow Fees & Exp.	0.00	25.00	25.00	Internal Cash Accruals	0.00	0.00	0.00
Franchise & Other Deposits	0.00	0.00	0.00	Long/Medium Term Borrowings	0.00	886.34	886.34
Preliminary & Pre-operative Exp	0.00	2.00	2.00	Debentures / Bonds	0.00	0.00	0.00
Provision for Contingencies	0.00	21.00	21.00	Unsecured Loans/Deposits	0.00	0.00	0.00
Margin Money - Working Capital	0.00	42.29	42.29				
<b>TOTAL</b>	<b>0.00</b>	<b>1181.79</b>	<b>1181.79</b>	<b>TOTAL</b>	<b>0.00</b>	<b>1181.79</b>	<b>1181.79</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				
	Rs	Rs	Rs	Rs	Rs	%	Rs	%	Rs	s	%
1-2	5.61	9.03	15.61	24.00	0.00	100.00	5.61	0.00	5.61	1.00	0.00
2-3	8.57	11.60	24.18	18.00	0.00	100.00	8.57	0.00	8.57	1.00	0.00
3-4	11.51	14.19	35.69	12.00	0.00	100.00	11.51	0.00	11.51	1.00	0.00
4-5	14.38	16.76	50.07	6.00	0.00	100.00	14.38	0.00	14.38	1.00	0.00
5-6	17.19	19.29	67.26	0.00	0.00	100.00	17.19	0.00	17.19	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	1.33	1.33		1.54	1.54	1.84	25.19%	16.20%	10.83%	1017.63	66.51%	1.19	0.86	
2-3	1.65	1.48		0.74	0.74	0.97	28.75%	21.96%	14.19%	1183.37	66.30%	1.29	1.36	
3-4	2.04	1.65	2.04	0.34	0.34	0.51	31.24%	26.13%	16.67%	1352.33	66.29%	1.30	2.02	
4-5	2.50	1.84		0.12	0.12	0.25	33.01%	29.19%	18.52%	1521.29	66.29%	1.25	2.81	
5-6	3.06	2.04		0.00	0.00	0.11	34.28%	31.48%	19.91%	1690.25	66.28%	1.16	6.70	

# Project at a Glance

## BEP

BEP - Maximum Utilisation Year	5
Cash BEP (% of Installed Capacity)	48.79%
Total BEP (% of Installed Capacity)	52.47%
IRR, PAYBACK and FACR	
Internal Rate of Return .. ( In %age )	26.65%
Payback Period of the Project is ( In Years )	2 Years 6 Months
Fixed Assets Coverage Ratio ( No. of times )	3.380

# Major Queries/Questions Answered in the Report?

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

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

**9. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up Biomedical Waste Recycling plant ?**

**10. What are the requirements of raw material for setting up Biomedical Waste Recycling plant ?**

**11. Who are the Suppliers and Manufacturers of Raw materials for setting up Biomedical Waste Recycling Business?**

**12. What is the Plant Layout for setting up Biomedical Waste Recycling Business?**

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

**18. What are the Personnel (Manpower) Requirements for setting up Biomedical Waste Recycling Business?**

**19. What is the Market Study and Assessment for setting up Biomedical Waste Recycling Business?**

**20. What is the time required to break-even of Biomedical Waste Recycling Business?**

**21. What is the Break-Even Analysis of Biomedical Waste Recycling plant?**

**22. What are the Project financials of Biomedical Waste Recycling Business?**



- 23. What are the Profitability Ratios of Biomedical Waste Recycling Project?**
- 24. What is the Sensitivity Analysis-Price/Volume of Biomedical Waste Recycling plant?**
- 25. What are the Projected Pay-Back Period and IRR of Biomedical Waste Recycling plant?**
- 26. What is the Process Flow Sheet Diagram of Biomedical Waste Recycling project?**
- 27. What are the Market Opportunities for setting up Biomedical Waste Recycling plant?**

# Table of Contents of the Project Report



## **1. DISTRICT PROFILE & GEOTECHNICAL SITE CHARACTERIZATION**

- 1.1. GENERAL CHARACTERISTICS OF THE DISTRICT:
- 1.2. LOCATION & GEOGRAPHICAL AREA:
- 1.3. TOPOGRAPHY:
- 1.4. MAP
- 1.5. INDUSTRIAL SCENERIO
- 1.6. LARGE SCALE INDUSTRIES/PUBLIC SECTOR UNDERTAKINGS
- 1.7. MEDIUM SCALE ENTERPRISES
- 1.8. TRANSPORTATION AND COMMUNICATIONS
- 1.9. ECONOMY & INDUSTRY

## **2. INTRODUCTION**

- 2.1. CLASSIFICATION OF BIO-MEDICAL WASTE
- 2.2. PROVISIONS OF THE LAW

## **3. OBJECTIVES OF BIO MEDICAL WASTE MANAGEMENT**

## **4. EFFECTS OF BIOMEDICAL WASTE**

- 5. MARKET SURVEY
- 5.1. STATE-WISE STATUS OF COMMON BIO-MEDICAL WASTE TREATMENT FACILITIES (CBWTFS)

## **6. COLLECTION AND TRANSPORTATION OF BIO-MEDICAL WASTES**

- 6.1. COLLECTION OF BIO-MEDICAL WASTE:
- 6.2. TRANSPORTATION OF THE COLLECTED BIO-MEDICAL WASTE TO THE CBWTF:

## **7. BIMEDICAL WASTE MANAGEMENT PROCESS**

- 7.1. PROCEDURE FOR WASTE COLLECTION
- 7.2. CENTRAL STORAGE
- 7.3. DISPOSAL OF BIO MEDICAL WASTE PRETREATMENT

## **8. PROCESS FLOW DIAGRAM FOR BIOMEDICAL WASTE**

## **9. TREATMENT METHODS OF BIOMEDICAL WASTE**

## **10. WASTE PLASTIC RECYCLING**

## **11. PROCESSING PLANT OF RECYCLED PLASTIC**

## **12. PROCESS FLOW DIAGRAM**

## **13. WASTE PAPER RECYCLING**

## **14. PROCESS FLOW DIAGRAM**

## **15. WASTE GLASS RECYCLING**

- 15.1. PRODUCTION STAGE

## **16. PROCESS FLOW DIAGRAM**

## **17. WASTE METAL RECYCLING**

- 17.1. ENVIRONMENTAL BENEFITS
- 17.2. ENERGY CONSERVATION

17.3. ECONOMIC BENEFITS

## **18. PROCESS FLOW DIAGRAM**

## **19. WASTE RUBBER RECYCLING**

19.1. MICROWAVE RECYCLING

19.2. ULTRASOUND RECYCLING

19.3. RECLAIMING BY ORGANIC REAGENTS

## **20. PROCESS FLOW DIAGRAM**

## **21. BIO-MEDICAL WASTE RULES (MANAGEMENT & HANDLING)**

21.1. DRAFT RULES

21.2. LABEL FOR BIO-MEDICAL WASTE CONTAINERS/BAGS

21.3. STANDARDS FOR TREATMENT AND DISPOSAL OF BIO-MEDICAL WASTES

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

22.1. BIOMEDICAL WASTE PROCESSING MACHINERY

22.2. PAPER RECYCLING MACHINERY

22.3. PLASTIC WASTE RECYCLING UNIT

22.4. EFFLUENT TREATMENT PLANT

22.5. PIPELINE AND FITTINGS

22.6. LABORATORY EQUIPMENT

## **23.SUPPLIERS OF RAW MATERIAL**

23.1. PROCESSED CHEMICAL

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

- 24.1. RECYCLED PLASTIC GRANULES
- 24.2. RECYCLED PAPER
- 24.3. RECYCLED RUBBER
- 24.4. RECYCLED GLASS
- 24.5. RECYCLED GLASS TILE
- 24.6. BIOMEDICAL WASTE
- 24.7. PLASTIC WASTE RECYCLING UNIT

## **25.PLANT LAYOUT**

# *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 Biomedical Waste Recycling.” provides an insight into Biomedical Waste Recycling market in India with focus on uses and applications, Manufacturing Process, Process Flow Sheets, Plant Layout and Project Financials of Biomedical Waste Recycling project. The report assesses the market sizing and growth of the Indian Biomedical Waste Recycling 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 Biomedical Waste Recycling sector in India along with its business prospects. Through this report we have identified Biomedical Waste Recycling project as a lucrative investment avenue.**

# Tags

#Biomedical\_Waste, #Medical\_Waste\_Disposal,  
#Biomedical\_Waste\_Management\_in\_India, #Biomedical\_Waste\_Disposal,  
#Bio\_Medical\_Waste\_Management\_Pdf, Bio Medical Waste Management PPT, Medical  
Waste Recycling, Solid Medical Waste and Recycling, Biomedical Waste Management,  
Industrial Waste, Hospital Waste Management, #Biomedical\_Waste\_and\_Collection,  
Medical Waste Treatment, Medical & Biomedical Waste Disposal, Bio-Medical Waste  
Management, Biomedical Waste Treatment and Disposal, Biomedical Waste and Solid  
Waste Management, Hazardous and Biomedical Waste Management, Disposal of  
Medical Waste, Biomedical Waste Recycling, Hospital Bio-Waste Management,  
Hazardous Waste Management, How to Dispose of or Recycle Bio-Medical Waste,  
Project Report on Biomedical Waste Management Industry,  
#Detailed\_Project\_Report\_on\_Biomedical\_Waste\_Management, Project Report on  
Biomedical Waste Management,  
#Pre\_Investment\_Feasibility\_Study\_on\_Biomedical\_Waste\_Management, Techno-  
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## Reports:

### ▪ Detailed Project Reports

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

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



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

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

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





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

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



# Contact us

## **NIIR PROJECT CONSULTANCY SERVICES**

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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

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