
Introduction

Waste recycling is the key focus area within the waste management services market in India. Increasing population, growing consumerism, and high use of electrical and electronic equipment are increasing waste volumes across different types of waste streams. India being the 7th largest country in terms of area and 2nd largest in terms of population constitute immense business opportunities for domestic and international solid waste management players. The country has seen some dramatic economic and social developments in the last decade.
India’s waste management sector is expected to be worth US$13.62 billion with an annual growth rate of 7.17 percent. Much of the waste India produces simply ends up in landfills without proper processing or treatment – redirecting this untapped waste to proper treatment and processing facilities will open up new investment possibilities.
Waste management is a global problem that continues to increase with rapid industrialization, population growth, and economic development. As the world hurtles towards the urban future, the amount of Municipal Solid Waste (MSW) is growing very fast. Waste includes any solid material or material that is suspended dissolved or transported in water or deposited on land. Wastes are generally classified into solid, liquid, & gaseous and are broadly classified as household waste; municipal waste; commercial and non-hazardous industrial wastes; e- waste, hazardous (toxic) industrial wastes; construction and demolition waste; health care wastes – waste generated in health care facilities (e.g. hospitals, medical research facilities); human and animal wastes; and incinerator wastes.
In the recent years, modern society has become more responsible when it comes to waste management. The fast industrialization, urbanization, modern technology, and rapidly growing population in India have posed a serious challenge to the waste management. In India, per capita generation rate of municipal solid waste ranges from 0.2 to 0.5 kg/day. At present, the daily generation rate in South Asia, East Asia and the Pacific combined is approximately 1.0 million tons per day.
The waste management market in India is expected to be worth US$ 13.62 billion by 2025. Indian municipal solid waste (MSW) management market is expected to grow at a CAGR of 7.14% by 2025 while e-waste management market is expected to grow at a CAGR of 10.03% during the same period. India has planned to achieve a capacity of 2.9 million hospital beds by 2025 which will help bio medical waste management market to grow at a CAGR of 8.41%.
Industrial Waste Management: Market Share (Value), by Geography, 2013
**Bio-medical waste (BM)** includes all refuse used in the healthcare industry such as syringes and biological materials. The total bio-medical waste generated in India is approximately 484 tons per day (TPD) from over 160,000 healthcare facilities (HCF). An estimated 447 tons of this biomedical waste is treated in India daily. India’s bio-medical waste management market will grow at a compounded annual growth rate of 8.41 percent – higher than the projected growth rate for waste in general.

Waste volumes are expected to grow at a year-over-year (YoY) rate of 5.3%, to reach 87.6 million metric tonnes (MT) in 2017, which will increase the recycling potential.

- eWASTE, 2.4%: 2.1 million MT
- C&D, 19.5%: 17.1 million MT
- MSW, 78.1%: 68.4 million MT

High population growth and changing lifestyles are expected to be responsible for the highest MSW volumes in 2017.

Though low in terms of volume, eWASTE is the fastest growing waste category, forecast to grow at a YoY rate of 20.6% from 2016 to 2017.
India is a growing market for plastics and consumes about 12.8 Million Metric Tonnes (MMT) of plastics annually against global consumption of 285 MMT per year.

Plastic products have become an integral part in our daily life as a basic need. It produced on a massive scale worldwide and its production crosses the 150 million tonnes per year globally.
India has witnessed a substantial growth in the production of plastics and an increased consumption of plastic. In the absence of adequate waste collection and segregation process, the management of the waste created by discarded used plastics items, especially ones used for packaging applications has become a challenging task. This article provides an overview of the resource recovery from plastic waste with consideration of integrated waste management, to evaluate the best possible option for tackling waste in Indian circumstances.
Recycling of electronic waste is an upcoming trend which is growing immensely as there is a severe need to protect human and environmental health. Electronic wastes have a very high impact on the environment, the pollution due to the increasing electronic wastes as led to the recycling of electronic waste on a larger scale.

Electronic waste recycling is the reprocessing of electrical and electronic equipment of different types which have been discarded so as to reuse it.
The Electronic Waste Recycling Market has been segmented on the basis of components of processed materials and sources of equipment processed. The components of processed materials segment consists of plastic, glass, mercury, metals, printed circuit boards, hard drives, batteries and others.
Growth of E-Waste in India

![Growth of E-waste in India](https://www.entrepreneurindia.co)
Niir Project Consultancy Services (NPCS) can provide Detailed Project Report on Required Project.

**List of Profitable Business Ideas in Waste Management, Disposal and Recycling Industry.**

- Industrial Waste
- Medical Waste
- Municipal Solid Waste
- Biomedical Waste
- E-Waste (Electronic Waste)
- Plastic Waste
- Agro Waste
- Municipal Garbage
- Paper
- Metal
- Iron
- Glass
- Rubber
- Wood Waste and Residue Processing
List of Few Business Ideas That Will Really Help You Out

- **WASTE MANAGEMENT AND RECYCLING**

Lead acid batteries are rechargeable batteries made of lead plates situated in a bath of sulfuric acid within a plastic casing. They are used in every country in the world, and can commonly be recognized as car batteries. The batteries can be charged many times, [Read more](#).
E WASTE RECYCLING PLANT (ELECTRONIC WASTE, E-WASTE, E-SCRAP, OR WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE))

E-waste is a popular informal name for electronic product nearing the end of their useful life. Computers, televisions, VCR, stereos, copier, and fax machine are common electronic product. Many of these product can be reused, refurbished and recycled.

Read more
MUNICIPAL SOLID WASTE MANAGEMENT

Due to rapid increase in the production and consumption processes, societies generate as well as reject solid materials regularly from various sectors agricultural, commercial, domestic, industrial and institutional. The considerable volume of wastes thus generated and rejected is called solid wastes. Read more
PLASTIC WASTE RECYCLING PLANT

Waste is now a global problem, and one that must be addressed in order to solve the world's resource and energy challenges. Plastics are made from limited resources such as petroleum, and huge advances are being made in the development of technologies to recycle plastic waste among other resources. Read more
SOLID WASTE MANAGEMENT

Due to rapid increase in the production and consumption processes, societies generate as well as reject solid materials regularly from various sectors – agricultural, commercial, domestic, industrial and institutional. The considerable volume of wastes thus generated and rejected is called solid wastes. Read more
**BIOMEDICAL WASTE RECYCLING**

Biomedical waste is waste that is either putrescible or potentially infectious. Biomedical waste may also include waste associated with the generation of biomedical waste that visually appears to be of medical or laboratory origin (e.g., packaging, unused bandages, infusion kits, etc.), [Read more](#)
PET BOTTLE RECYCLING

Polyethylene terephthalate or PET (also known as PETE) is one of the most common types of plastic. Most single serve plastic bottles, including those for water, soft drinks and juices, are made with PET. Designated by the recycling code 1. This symbol is nothing to do with the single use or repeated use of PET bottle. Read more
RECOVERY OF ZINC METAL FROM ZINC ASH

Indian has an ancient and impressive heritage in zinc production and their usage. There was at one time a thriving lead and zinc industry in the state of Rajasthan. It remains the ancient zinc smelter, located near the modern unit of Hindustan zinc ltd., at debari, udaipur, are of great historical archeology. Read more
WASTE OIL RECYCLING

Lubricating oils are widely used in industries to reduce friction and wear by interposing a thin film of oil between metallic surfaces. During normal use, impurities such as water, salt, dirt, metal scrapings, broken down additive components, Read more
RECYCLING OF WASTE COMPUTER

Computer is an electronic device. All the parts of the computer has certain period of life after that these are unable to work. Waste parts can reuse for further production of new products. To development of new variety of computers there is large amount of computer waste available. Waste parts of the computer can be used in various ways. Read mor
STEEL TUBES FROM SCRAPS AND PVC PIPE WITH 5MW HR CAPTIVE POWER PLANT

Steel tube and P.V.C. pipes are largely used in the commercial, industrial and agricultural field. In agricultural field PVC pipes are largely used when M.S. tubes have slightly uses. These pipes has very good demand not only in India but globally. Adding the captive power plant with this unit will be beneficial. Read more
RECOVERY OF LEAD

Lead is a material very easy to recycle and, provided that adequate procedures are implemented; the final product (secondary lead) is indistinguishable from the primary lead produced from ores. About 50% of the lead consumed worldwide is derived from recycled and reused materials. Read more
KRAFT PAPER FROM WASTE CARTON BOXES

Kraft paper is one of the important papers for wrapping heavy bundles. It is used mostly in all types of packaging. Kraft paper is made from waste paper or discarded carton boxes, which are found abundantly in India, especially in metropolitan cities where consumption of paper and paper products are rated high. Read more
WASTE TYRE PYROLYSIS

With the phenomenal increase in number of automobiles in India during recent years the demand of tyres as original equipment and as replacement has also increased. As every new tyre produced is destined to go to waste stream for disposal or recycling or reclamation, Read more
KRAFT PAPER FROM BAGASSE

Kraft paper is paper produced by the Kraft process from wood pulp or waste or agriculture residue. It is strong and relatively coarse. Kraft paper is usually a brown colour but can be bleached to produce white paper. It is used for paper grocery bags, multi wall sacks, Read more
BILLETS FROM STEEL SCRAP BY ELECTRIC FURNACE

Steel is the most widely used materials in a large variety of applications. Steel is one of the most recyclable material available-40% produced in the world is from recycling techniques. Carbon steel of many large cross-sections are used as structural steels while flats of steel corner the rest of the engineering uses hot rolled sheets Read more
HARD BOARD FROM BAGASSE

Soft and hard boards, which are the most basic among paper boards, are used for a wide range of purposes including folding boxes, back board for flat files, for making registers etc. As the board is made from bagasse and treated with small amounts of lime milk, soda ash etc. Read more
BIOMASS BRIQUETTES FROM BIO WASTE

Energy is the key factor in economic development of country. Biomass is a natural product of solar energy, and therefore, a renewable source of carbon and hydrogen, which are the basic constituents of energy and chemical products. Biomass should be termed not only as a potential renewable source of energy. Read more
CARD AND GRAY BOARD FROM PULP AND WASTE PAPER

The recent trend in business style packaging of finish product has its own importance. The quality of the product is measured with the slow of packaging and packaging material. The demand for card/gray board is increasing rapidly. Cardboard and Gray boards are important grades of paperboards. [Read more]
PLASTIC GRANULES FROM WASTE

Plastic is a very common material that is now widely used by everybody in this world. Plastic is used in many ways as it is light weight and compact. The maintenance that is required is very less. Common plastic items that are used are bags, bottles, containers and food packages. Read more
Paper bags are more popular and good in appearance. Paper bags are gradually replacing the plastic bags from the market in India. Plastic bags are cheap but they cause much destruction to the environment. For this reason more and more companies in India are offering paper bags to their customers for carrying purpose.
GLUE FROM LEATHER WASTE

Animal glue was the most common woodworking glue for thousands of years until the advent of synthetic glues such as polyvinyl acetate (PVA) and other resin glues in the 20th century. Today it is used primarily in specialty applications such as lutherie, pipe organ building, piano repairs, and antique restoration. Read more
CAFFEINE FROM TEA WASTE

Caffeine is widely used in pharmaceuticals as free base and mixtures, such as citrated caffeine’s caffeine and sodium benzoate. Tea waste or coffee beans, limewater and trichloroethylene are the starting raw materials for its manufacture. Tea waste contains 3-4 percent caffeine. Read more
PAPER FROM HEMP

At present paper is being put to at least ten thousand different uses because number of qualities it possesses. No doubt it will be increasing its uses in future. It may be coated, impregnated, printed or otherwise converted during or after manufacture without losing its identity. Read more
NICOTINE FROM TOBACCO WASTE

From harvesting of Tobacco to manufacture of product large quantities of waste material comprising rejected leaves, broken bits of lamina, midribs stalks & stems accumulate. Nicotine is by far the most important by-product derived from tobacco waste. Read more
ALUMINIUM INGOTS FROM ALUMINIUM SCRAP

The 20th century has seen the emergence of aluminium as a key industrial and strategic material, second to only steel in terms of importance and tonnages of production. Beginning with an experimental production of 1.7 tonnes in 1859, Read more
RECYCLING OF PET

Recycling of waste has become a necessity for environmental as well as for economic reasons. Plastics wastes being recycled in our country for over three decades have not been in an organized and scientific way. With the availability of sophisticated recycling lines indigenously, Read more
ALUMINIUM ALLOY FROM SCRAP AND VIRGIN METAL

Aluminium, the second most plentiful metallic element on earth, became an economic competitor in engineering applications as recently as the end of the 19th century. It was to become a metal for its time. The emergence of three important industrial developments would, Read more
ARTIFICIAL SAND FROM STONES AND WASTE METALS

Sand is generally mixed with cement and water to form concrete. These sand particles should be hard and inert with respect to cement. Continuous usages of river sand in river beds' condition is day by day deteriorating and threatening environmental disaster. Read more.
VERMICOMPOST FROM SOLVENT EXTRACTED SPICE WASTE

Vermicompost is the product or process of composting utilizing various species of worms, usually red wigglers, white worms, and earthworms to create a heterogeneous mixture of decomposing vegetable or food waste, bedding materials, and vermicast. Vermicast, similarly known as worm castings, Read more
CARBON BLACK FROM WASTE TYRES (WASTE TYRE PYROLYSIS)

With the phenomenal increase in number of automobiles in India during recent years the demand of tyres as original equipment and as replacement has also increased. As every new tyre produced is destined to go to waste stream for disposal/recycling/reclamation, despite its passage through retreading process, Read more
Rubber powder is one of the major byproducts of waste tyre recycling. Rubber powder has a large number of uses in the different sections of the industry. Rubber tyres are reused, reprocessed, or hand-crafted into new products, resulting in less waste and less environmental degradation as a result. Read more
Biogas plants have the ability to accept a wide variety of organic residues as primary fuel input. This includes Cow dung, agricultural residue, effluent discharge, food residue etc. Most agricultural / food production processes have significant amount of organic residues output as by-product. Read more
Plastics have become an indispensable part in today’s world. Due to their lightweight, durability, energy efficiency, coupled with faster rate of production and design flexibility, these plastics are employed in entire gamut of industrial and domestic areas. Read more
COTTON YARN FROM WASTE YARN

Cotton has a pride of place among the commercial crops if India. Besides cotton, textile are manufactured by handlooms, power looms and composite mills. Some of the laye textile units also operate waste spinning plant for manufacture of the coarser yarn. Read more
BIOFERTILIZER FROM HERBAL WASTE

Biofertilizer is a substance which contains living microorganism which, when applied to seed, plant surfaces, or soil, colonizes the rhizohlore or the interior of the plant and promotes growth by increasing the supply or availability of primary nutrients to the host plant. Read more
Bricks are the most common building materials. It is a mixture of clay and sand and small quantities of limes. Bricks are made by treating suitable mixture of clay and fume dust, moulding it to shape and size.
Tags

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Major Queries/Questions Answered in Our Report?

1. How has the industry performed so far and how will it perform in the coming years?
2. What is the Project Feasibility of the Plant?
3. What are the requirements of Working Capital for setting up the plant?
4. What is the structure of the industry and who are the key/major players?
5. What is the total project cost for setting up the plant?
6. What are the operating costs for setting up the plant?
7. What are the machinery and equipment requirements for setting up the plant?
8. Who are the Suppliers and Manufacturers of Plant & Machinery for setting up the plant?
9. What are the requirements of raw material for setting up the plant?
10. Who are the Suppliers and Manufacturers of Raw materials for setting up the plant?

11. What is the Manufacturing Process of the plant?

12. What is the total size of land required for setting up the plant?

13. What will be the income and expenditures for the plant?

14. What are the Projected Balance Sheets of the plant?
15. What are the requirement of utilities and overheads for setting up the plant?

16. What is the Built up Area Requirement and cost for setting up the plant?

17. What are the Personnel (Manpower) Requirements for setting up the plant?

18. What are Statistics of Import & Export for the Industry?

19. What is the time required to break-even?
20. What is the Break-Even Analysis of the plant?
21. What are the Project financials of the plant?
22. What are the Profitability Ratios of the plant?
23. What is the Sensitivity Analysis-Price/Volume of the plant?
24. What are the Projected Pay-Back Period and IRR of the plant?
25. What is the Process Flow Sheet Diagram of the plant?
26. What are the Market Opportunities for setting up the plant?
27. What is the Market Study and Assessment for setting up the plant?
28. What is the Plant Layout for setting up the plant?
Reasons for Buying Our Report:

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• The report helps you market and place the product correctly by identifying the target customer group of the product
The report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials.

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