# Industrial Pollution: Effects, Types and Industrial Pollution Control Management

(cleaning and degreasing, cold cleaning, vapor cleaning, precision cleaning, refrigerant, nickel plating, chrome plating, cadmium and zinc plating, copper, gold, silver, and tin plating, techniques to reduce plating waste, electro dialysis, powder coating, electrostatic painting, rendering, scalding, motor oil and antifreeze, Aluminium industry, chemical treatment, waste treatment)

#### **Introduction**

Industrialization is the process of social and economic change that transforms a human group from a pre-industrial society into an industrial one. It is a part of a wider modernization process, where social change and economic development are closely related with technological innovation, particularly with the development of large scale energy and metallurgy production. Industrial pollution hurts the environment in a range of ways, and it has a negative impact on human lives and health. Pollutants can kill animals and plants, imbalance ecosystems, degrade air quality radically, damage buildings, and generally degrade quality of life. India is a home to many industries. The sectors include Iron and Steel, Pulp and Paper, Food Processing, Chemicals, Aluminium Industry, Cement, Pharmaceuticals, Machine tools, Surface finishing Industries etc. However, the industrial growth happening at a breakneck speed has resulted in a significant contribution to the toxicity in the environment. Therefore industrial activities should comply with regulatory

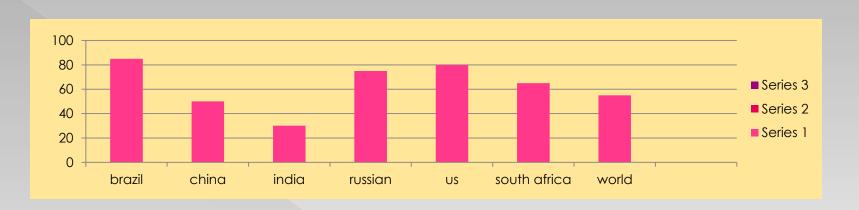


norms for prevention and control of pollution. There have been many guidelines for the industries and the pollution caused by them.

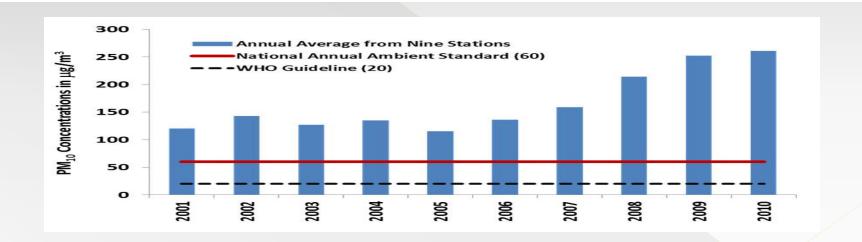
The setup and implementation of these guidelines is a joint responsibility of the central and state governments along with the Central Pollution Control Board to curb such emissions. At present, the control of pollution from industrial installations remains a key issue in India. As urbanization expands and cities grow the need to deal with the environmental impact becomes even more important to ensure sustainable development. This also entails handling increasing volumes of waste water. Efficient wastewater management exploiting the capacity optimally requires a thorough understanding of the pollutions sources origin and substance. Hence pollution sources must be mapped and identified.

The percentage of urban population in different countries is depicted in figure. According to this, 53% of the world's population lives in urban areas, with the range of urban population varying from 32% in India to 85% in Brazil. In India, the proportion of urban population has increased from 25.7% in 1991 to 27.8% in 2001 and finally to 32% in 2013.





The chart shown below show the increasement of air pollution in the year 2001-2010.





This book is designed to assist in the identification and implementation of a cost effective program for industrial pollution monitoring, control, and abatement within the context of institutional and financial constraints present in India. The book is a complete guide on industrial pollution control in important industries like Iron and Steel, Pulp and Paper, Food processing, Chemicals, Aluminium industry, Cement, Pharmaceuticals, Paint industry and many more. This book will be very resourceful to all its readers, students, entrepreneurs, technical institution, scientist, etc.



### **Table of Contents**

- I. Treatment to Reduce Disposal
- 2. Economic Evaluation in Pollution Prevention Programs
- 3. Machining and Other Metal Working Operations
- 4. Solvents Used for Cleaning, Refrigeration and Other Uses
- 5. Metal Plating and Surface Finishing
- **6. Painting and Coating**
- 7. Removal of Paint and Coatings
- 8. Motor Oil and Antifreeze



- 9. Aluminium Industry
- **10. Construction and Demolition**
- **II. Electric Utilities**
- 12. Food Processing
- 13. Iron and Steel
- 14. Petroleum Exploration and Refining
- 15. Pharmaceuticals
- **16. Pulp and Paper Industry**
- 17. Air Pollution Control Equipment



#### **Tags**

How to Start Industrial Pollution management Industry in India, Industrial Pollution management Industry in India, Most Profitable @@ Processing Business Ideas, Industrial Pollution management & Industrial Pollution management Based Profitable Projects, Industrial Pollution management Projects, Small Industrial Pollution management Projects, Starting a Industrial Pollution management Business, How to Start a Industrial Pollution management Business, Industrial Pollution management Based Small Scale Industries Projects, new small scale ideas in Industrial Pollution management industry, NPCS, Niir, Process technology books, Business consultancy, Business consultant, Project identification and selection, Preparation of Project Profiles, Startup, Business guidance, Business guidance to clients, Startup Project for Industrial Pollution management, Startup Project, Startup ideas, Project for startups, Startup project plan, Business start-up, Business Plan for a Startup Business, Great Opportunity for Startup, Small Start-up Business Project, Start-up Business Plan for Industrial Pollution management, Start Up India, Stand Up India, Industrial Pollution management Making Small Business Manufacturing, Small scale Industrial Pollution management machine, Industrial Pollution management making machine



factory, Modern small and cottage scale industries, Profitable small and cottage scale industries, Setting up and opening your Industrial Pollution management Business, How to Start a Industrial Pollution management Business?, How to start a successful Industrial Pollution management business, Small scale Commercial Industrial Pollution management making, Best small and cottage scale industries, Industrial Pollution management Business, Profitable Small Scale Manufacturing, Treatment to Reduce Disposal, Economic Evaluation in Pollution Prevention Programs, Machining and Other Metal Working Operations, Solvents Used for Cleaning, Refrigeration and Other Uses, Metal Plating and Surface Finishing, Painting and Coating, Removal of Paint and Coatings, Motor Oil and Antifreeze, Aluminium Industry, Construction and Demolition, Electric Utilities, Food Processing, Iron and Steel, Petroleum Exploration and Refining, Pharmaceuticals, Pulp and Paper Industry, Air Pollution Control Equipment, How to control industrial pollution, Waste Treatment and Disposal Methods, reuse, recycling, resource recovery, treatment and disposal, types of waste disposal methods, solid waste disposal methods, waste treatment methods, waste



disposal problems, Electroplating & Surface Finishing, metal surface finishing process, surface treatment process, environmental regulation, chemical treatment, cleaning and degreasing, cold cleaning, vapor cleaning, precision cleaning, refrigerant, Nickel Plating, chrome plating, cadmium and zinc plating, copper, gold, silver, and tin plating, techniques to reduce plating waste, electro dialysis, powder coating, electrostatic painting, rendering, scalding.



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## The complete guide on industrial pollution control

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## NIIR PROJECT CONSULTANCY SERVICES

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- We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad



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- Project Identification
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- Business Plan
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- Market Research Reports
- Technology Books and Directory
- Databases on CD-ROM
- Laboratory Testing Services
- Turnkey Project Consultancy/Solutions
- O 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** 



#### Who do we serve?

- Public-sector Companies
- Corporates
- Government Undertakings
- Individual Entrepreneurs
- O NRI's
- Foreign Investors
- Non-profit Organizations, NBFC's
- Educational Institutions
- Embassies & Consulates
- Consultancies
- Industry / trade associations



#### **Sectors We Cover**

- O Ayurvedic And Herbal Medicines, Herbal Cosmetics
- O Alcoholic And Non Alcoholic Beverages, Drinks
- O Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin
- Activated Carbon & Activated Charcoal
- Aluminium And Aluminium Extrusion Profiles & Sections,
- O Bio-fertilizers And Biotechnology
- Breakfast Snacks And Cereal Food
- O Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling



- Bamboo And Cane Based Projects
- Building Materials And Construction Projects
- Biodegradable & Bioplastic Based Projects
- Chemicals (Organic And Inorganic)
- O Confectionery, Bakery/Baking And Other Food
- Cereal Processing
- Coconut And Coconut Based Products
- Cold Storage For Fruits & Vegetables
- Coal & Coal Byproduct



- Copper & Copper Based Projects
- Dairy/Milk Processing
- O Disinfectants, Pesticides, Insecticides, Mosquito Repellents,
- Electrical, Electronic And Computer based Projects
- O Essential Oils, Oils & Fats And Allied
- Engineering Goods
- Fibre Glass & Float Glass
- Fast Moving Consumer Goods
- O Food, Bakery, Agro Processing



- Fruits & Vegetables Processing
- Ferro Alloys Based Projects
- Fertilizers & Biofertilizers
- Ginger & Ginger Based Projects
- Herbs And Medicinal Cultivation And Jatropha (Biofuel)
- Hotel & Hospitability Projects
- Hospital Based Projects
- Herbal Based Projects
- O Inks, Stationery And Export Industries



- Infrastructure Projects
- Jute & Jute Based Products
- Leather And Leather Based Projects
- Leisure & Entertainment Based Projects
- Livestock Farming Of Birds & Animals
- Minerals And Minerals
- Maize Processing(Wet Milling) & Maize Based Projects
- Medical Plastics, Disposables Plastic Syringe, Blood Bags
- Organic Farming, Neem Products Etc.



- O Paints, Pigments, Varnish & Lacquer
- O Paper And Paper Board, Paper Recycling Projects
- Printing Inks
- Packaging Based Projects
- Perfumes, Cosmetics And Flavours
- O Power Generation Based Projects & Renewable Energy Based Projects
- Pharmaceuticals And Drugs
- O Plantations, Farming And Cultivations
- O Plastic Film, Plastic Waste And Plastic Compounds
- O Plastic, PVC, PET, HDPE, LDPE Etc.



- Potato And Potato Based Projects
- Printing And Packaging
- O Real Estate, Leisure And Hospitality
- O Rubber And Rubber Products
- Soaps And Detergents
- Stationary Products
- Spices And Snacks Food
- Steel & Steel Products
- Textile Auxiliary And Chemicals



- Township & Residential Complex
- O Textiles And Readymade Garments
- Waste Management & Recycling
- Wood & Wood Products
- Water Industry(Packaged Drinking Water & Mineral

Water)

Wire & Cable



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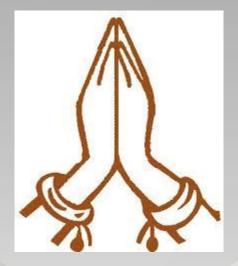
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