

# NIIR Handbook On Projects In Export Thrust Area With International Market Survey (Biotech & Pharmaceutical Technology)

**Author:** NIIR Board

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Modern pharmaceutical manufacturing techniques frequently rely upon biotechnology. The emergence of biotechnology over the past several decades has transformed the drug business and ushered in a host of new participants and several novel business models. Biotechnology (Biotech) is a field of applied biology that involves the use of living organisms and bioprocesses in engineering, technology, medicine and other fields requiring bio products. Biotechnology also utilizes these products for manufacturing purpose. Modern use of similar terms includes genetic engineering as well as cell and tissue culture technologies. The concept encompasses a wide range of procedures (and history) for modifying living organisms according to human purposes, going back to domestication of animals, cultivation of plants, and improvements to these through breeding programs that employ artificial selection and hybridization. As understanding of biological systems has forged ahead, pharmaceutical companies have made increasing use of biotechnology in discovering and manufacturing new medicines. Biotechnology helps the pharmaceutical industry to develop new products, new processes, methods and services and to improve existing ones.

This book explains about the Market survey, manufacturing processes and other details of various enzymes (e.g. pectolytic enzyme, lytic enzyme, etc.), antibiotics, biofertilizer, etc. It also provides applications of biotechnology in agriculture (bioinsecticides & biopesticides, hybrid seeds, tissue culture, etc.), animal husbandry, aquaculture, human health, population control, fuel & fodder, waste etc.

Comprehensive in scope, the book provides solutions that are directly applicable to the properties, manufacturing technology and other specific details of enzymes, antibiotics, biofertilizer, insulin and growth hormone, aqua culture, floriculture, tissue culture, bulk drug intermediate. Research scholars, professional students, scientists, new entrepreneurs, and present manufacturers will find valuable educational material and wider knowledge of the subject in this book.

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# About NIIR

**NIIR PROJECT CONSULTANCY SERVICES (NPCS)** is a reliable name in the industrial world for offering integrated technical consultancy services. NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.

Our various services are: Detailed Project Report, Business Plan for Manufacturing Plant, Start-up Ideas, Business Ideas for Entrepreneurs, Start up Business Opportunities, entrepreneurship projects, Successful Business Plan, Industry Trends, Market Research, Manufacturing Process, Machinery, Raw Materials, project report, Cost and Revenue, Pre-feasibility study for Profitable Manufacturing Business, Project Identification, Project Feasibility and Market Study, Identification of Profitable Industrial Project Opportunities, Business Opportunities, Investment Opportunities for Most Profitable Business in India, Manufacturing Business Ideas, Preparation of Project Profile, Pre-Investment and Pre-Feasibility Study, Market Research Study, Preparation of Techno-Economic Feasibility Report, Identification and Section of Plant, Process, Equipment, General Guidance, Startup Help, Technical and Commercial Counseling for setting up new industrial project and Most Profitable Small Scale Business.

NPCS also publishes various process technology, technical, reference, self employment and startup books, directory, business and industry database, bankable detailed project report, market research report on various industries, small scale industry and profit making business. Besides being used by manufacturers, industrialists and entrepreneurs, our publications are also used by professionals including project engineers, information services bureau, consultants and project consultancy firms as one of the input in their research.

Our Detailed Project report aims at providing all the critical data required by any entrepreneur vying to venture into Project. 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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**NIIR PROJECT CONSULTANCY SERVICES** , 106-E, Kamla Nagar, New Delhi-110007, India. **Email:** [npcs.india@gmail.com](mailto:npcs.india@gmail.com) **Website:** [NIIR.org](http://NIIR.org)

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