

# **Bio-Technology, Enzymes, Food Biotechnology , Vermiculture , Vermicompost , Bio-Fertilizer, Organic Farming, Biogas**

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

**Author:** NIIR Board

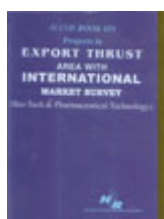
**Format:** Hardcover

**Book Code:** NI2

**Pages:** 149

**ISBN:** 8186623086

**Price:** Rs. 1,095.00 **US\$** 100.00



The Book contains different projects in the field of bio-technology and pharmaceuticals with processes, profiles, list of plant and machinery, raw materials along with addresses of their suppliers

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## **[Biotech & Pharmaceutical Handbook](#)**

**Author:** P.K.Chattopadhyay

**Format:** Hardcover

**Book Code:** NI43

**Pages:** 231

**ISBN:** 8186623019

**Price:** Rs. 1,895.00 **US\$** 200.00



Drug & pharmaceutical industry is one of the basic industry in India. Recent moves in globalisation and liberalisation has affected this industry perhaps the highest. Pharmaceutical industry has close linkages with imports of material and technology or process know how and therefore with international economics. Would you invest in a industry whose growth rate is 150% above that of the same industry worldwide and 1400% in the industry which deals in pharmaceutical product will appropriate you to overcome the constraints and the way to trouble shooting in the bio-tech and pharmaceutical industry. The book is very informative and useful to relevant entrepreneur

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## **[Biotechnology Handbook](#)**

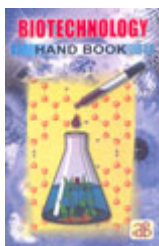


**Author:** NIIR Board

**Format:** Paperback

**Book Code:** NI82

**Pages:** 682



**ISBN:** 8178330709

**Price:** Rs. 1,100.00 **US\$** 125.00

Biotechnology and cell molecular biology have developed and emerged in to a major discipline during last two decades. This is an unique book, concise, up to date resource offering an innovative, adoptive and valuable presentation of the subject. It covers all important biotechnological topics of industrial and academic interests. This books will be very use full for industry people, students, libraries and for those who want to venture in to manufacturing of biotechnological products.

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## [Enzymes Biotechnology Handbook](#)

**Author:** NIIR Board of Consultants and Engineers

**Format:** Paperback

**Book Code:** NI98

**Pages:** 490



**ISBN:** 8178330784

**Price:** Rs. 1,100.00 **US\$** 125.00

Enzymes are the focal point of biotechnological processes. Without them biotechnology as a subject would not exist. In this book you can find all the basic information required on the fundamental aspects of the enzymes, their chemistry, biochemistry as well as detailed information of their applications a wide variety of industrial processes etc. The book is very useful for research scholars, technocrats, institutional libraries and entrepreneurs who want to enter into the field of manufacturing of enzymes.

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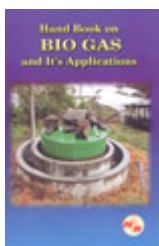
## [Handbook on Bio Gas and Its Applications](#)

**Author:** NIIR Board

**Format:** Paperback

**Book Code:** NI114

**Pages:** 454



**ISBN:** 8186623825

**Price:** Rs. 975.00 **US\$** 100.00

Energy from different sources, especially biomass has assumed great importance in development and under developed countries of the world. Most of the energy needed for cooking space heating and lighting etc. in rural area of such countries comes from biomass which have been used since long times. The book contains technology of biogas generation with its applications. This book will be very useful for researchers, consultants, entrepreneurs, institutional libraries, students etc.

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## [The Complete Technology Book on Biofertilizer and Organic Farming](#)

**Author:** NIIR Board

**Format:** Paperback

**Book Code:** NI115

**Pages:** 620

**ISBN:** 8186623841

**Price:** Rs. 1,100.00 US\$ 125.00



Bio-Fertilizers are natural fertilizers which are microbial inoculants of bacteria, algae, fungi alone or in combination and they augment the availability of nutrients to the plants. The use of bio-fertilizers, in preference to chemical fertilizers, offers economic and ecological benefits by way of soil health and fertility to farmers. In view of the immense potential of bio-fertilizer technology covers all major types of bacterial fertilizers. This book will be of use and interest to consultants, researchers, libraries, entrepreneurs, manufacturers of bio-fertilizer and for those who wants to venture in to this field.

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## [The Complete Technology Book on Vermiculture and Vermicompost](#)

**Author:** NIIR Board

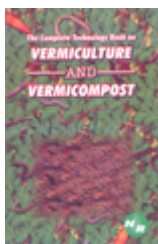
**Format:** Paperback

**Book Code:** NI116

**Pages:** 354

**ISBN:** 8186623817

**Price:** Rs. 750.00 US\$ 100.00



Vermiculture is a new development in biotechnology based product which helps to solve the partially pollution problems. Vermiculture is a mixed culture which contains one specific culture of soil bacteria mixed with an effective strain of earth worms. All over world, from developed countries like USA, U.K. Russia and Japan, as well others to developing countries like China, Mexico, Brazil and Philippines etc. Earthworm culture, popularly called vermiculture is being widely practiced in big commercialised manner. In India too some companies have come up, but by and large general awareness remains lacking, despite fact that several non Governmental Organisations and Governmental Institution are trying hard to popularise the subject for adoption. This book is an attempt to fill the need of those desirous of starting vermiculture and vermicompost industry.

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## [Plant Biotechnology Handbook](#)

**Author:** NIIR Board

**Format:** Paperback

**Book Code:** NI117

**Pages:** 550

**ISBN:** 8186623833

**Price:** Rs. 1,100.00 US\$ 125.00



Micro propagation is a fast and suitable method for producing large number of similar plants of germless with in a short period. The book contains measurement of plant cell growth, plant tissue culture, initiation of embryo genesis in suspension culture, micro propagation in plants, isolation of plant DNA and many more. This is very helpful book for entrepreneurs, consultants, students, institutions, researchers etc.

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## [Handbook on Food Biotechnology](#)

**Author:** NIIR Board of Consultants & Engineers

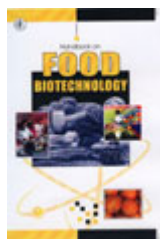
**Format:** Paperback

**Book Code:** NI153

**Pages:** 592

**ISBN:** 8186623957

**Price:** Rs. 1,100.00 US\$ 125.00



Biotechnology concerns the practical application of organisms or their components. Historically, Bio-technology was an art, involved in the production of wines, beers and cheese. Now a days it involves a series of advanced technologies spanning biology, chemistry and process engineering. The present book is an attempt towards the entrepreneurs to motivate them to invest in organic farming and processing in sophisticated manner by application of Bio-technology. It is hoped that this book will be very useful for existing as well as new entrepreneurs, researchers, technocrats, institutional libraries etc.

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## [Handbook on Plants and Cell Tissue Culture](#)

**Author:** NIIR Board of Consultants & Engineers

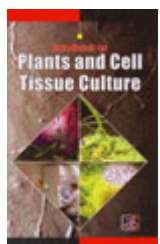
**Format:** Paperback

**Book Code:** NI157

**Pages:** 640

**ISBN:** 8178330296

**Price:** Rs. 1,275.00 US\$ 125.00



Plants cell tissue culture is a rapidly developing technology which holds promise of restructuring agricultural and forestry practices. During the last two decades cell culture have made considerable advanced in the field of agriculture, horticulture, plant breeding, forestry, somatic cell genetics, phytopathology etc. The present book discuss about the methods of plant cell tissue culture. This is very helpful book for research workers, students, technocrats, entrepreneurs, institutional libraries etc.

## [Handbook on Mushroom Cultivation and Processing \(with Dehydration, Preservation and Canning\)](#)

**Author:** NIIR board

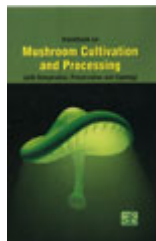
**Format:** Paperback

**Book Code:** NI164

**Pages:** 544

**ISBN:** 8178330342

**Price:** Rs. 1,075.00 **US\$** 125.00



Mushroom has been attracting attention of mankind since ancient times and use of mushroom, as food is as old as human civilization. It is very rich in protein, vitamins and minerals. Unfortunately, it is realised that mushrooms did not receive universal acceptance over the years since a number of naturally growing mushrooms are poisonous. Now the situation has been changed because the cultivated edible mushrooms are totally safe for human consumption. The present book contains cultivation, processing, dehydration, preservation and canning of various species of mushrooms. It is very useful book for agriculturists, researchers, agriculture universities, consultants etc.

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## [The Complete Book on Biotechnology Based Bulk Drugs](#)

**Author:** NPCS Board of Consultants & Engineers

**Format:** Paperback

**Book Code:** NI194

**Pages:** 488

**ISBN:** 9788190439879

**Price:** Rs. 1,050.00 **US\$** 125.00



The development of biotechnology is taking pace in almost all fields of human life. The recent advances in the field of basic genetics have opened up new vistas, potentials and possibilities. The present book contains process of biotechnology based bulk drugs like penicillin, B-Lactam Antibiotics, Aminoglycoside Antibiotics, Peptide Antibiotics, Anti Cancer Agents, Lincomycin etc. This is very useful book for entrepreneurs, technocrats, research scholars, libraries etc.

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## [The Complete Book on Emulsifiers with Uses, Formulae and Processes](#)

**Author:** NPCS Board of Consultants & Engineers

**Format:** Paperback

**Book Code:** NI201

**Pages:** 448

**ISBN:** 9788190568531

**Price:** Rs. 1,075.00 **US\$** 125.00



Emulsifier is an organic compound that encompasses in the same molecule two dissimilar structural groups e.g. a water soluble and a water insoluble moiety. The composition, solubility properties, location and relative sizes of these dissimilar groups in relation to the over all molecular configuration determine the surface activity of a compound. Emulsifiers are classified on the basis of their hydrophilic or solubilizing groups in to four categories – anionics, non-ionics, cationics, and amphoteric. The present book contains manufacturing processes of various types of emulsifiers which have applications in different industries. This is a book for scientists, technologists, entrepreneurs and ingredients suppliers.

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## [The Complete Book on Beekeeping and Honey Processing](#)

**Author:** NPCS Board of Consultants & Engineers

**Format:** Paperback

**Book Code:** NI203

**Pages:** 528

**ISBN:** 9788190568555

**Price:** Rs. 1,075.00 **US\$** 125.00



Beekeeping is practiced now a day on specific lines and honey extracted with art billing bees and gubs or destroying the comb. Bees are accommodated in artificial lives where they live comfortably with in easy reach of the bee keeper for examination and extraction of surplus lovely, after keeping of sufficient lovely in the combs for the bees. Honey is a part of bees, which gather sugar containing nectars from flowers. The main uses of honey are in cooking, baking, as a spread on breads and as an addition to various beverages such as tea and as a sweetener in commercial beverages. Honey is the main ingredient in the alcoholic beverages mead, which is also known as honey wine or honey bear. Honey is also used in medicines. The book contains the steps of bee keeping in proper manner and details of honey processing. This book is very useful for new entrepreneurs, technocrats and also for established enterprises.

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## [Biopesticides Handbook](#)

**Author:** NPCS Board of Consultants & Engineers

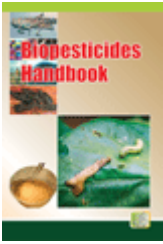
**Format:** Hardcover

**Book Code:** NI210

**Pages:** 544

**ISBN:** 9788178330419

**Price: Rs. 1,575.00 US\$ 150.00**



Agricultural pesticides, properly used, are essential in supplying the food requirements of the world's ever growing population. The use of synthetic pesticides affects the health of human being. The indiscriminate use of pesticides has adversely affected the health of the soil. The residual pesticides in the soil not only affect the soil quality but also the water quality, as they get leached into the ground water. Due to these reasons, role of biopesticides are very important for sustainable agriculture. The use of biopesticides for sustainable agriculture is a complex issue that at times is difficult to comprehend and plan. This is the first book of its kind which provides different parameters for manufacturing of biopesticides. The book will not only be useful for new entrepreneurs but will also help the technocrats, research scholars and those who willing to know more about biopesticides.

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## [The Complete Book on Organic Farming and Production of Organic Compost](#)

**Author:** NPCS Board of Consultants & Engineers

**Format:** Hardcover

**Book Code:** NI213

**Pages:** 448

**ISBN:** 9788178330433

**Price: Rs. 1,275.00 US\$ 125.00**



India is an agro based country. It ranks 2nd in agricultural products manufacturing in the world. So organic farming plays an important role in agro field. India has many natural resources of various organic compounds and so it is an excellent opportunity to produce sufficient quantity of organic foods to meet the global demand. There is a bright future for organic farming to export its quality product. Organic farming is a form of agriculture that excludes the use of synthetic fertilizers and pesticides, plant growth regulators, livestock feed additives, and genetically modified organisms. Organic farming is not new to Indian farming community. Several forms of organic farming are being successfully practiced in diverse climate, particularly in rain fed, tribal, mountains and hill areas of the country. The popularity of organic farming is gradually increasing and now organic agriculture is practiced in almost all countries of the world, and its share of agricultural land and farms is growing. The present book contains the organic farming management, production and uses of various organic compounds, which are well known and also for agriculture for their worldwide use. Compost serves as a growing medium, or a porous, absorbent material that holds moisture and soluble minerals, providing the support and nutrients in which most plants will flourish. Use of organic manure is extremely essential for better crop productivity and maintaining the fertility of soil to ensure sustainable production

# [Handbook on Fermented Foods and Chemicals](#)

**Author:** NPCS Board of Consultants & Engineers

**Format:** Paperback

**Book Code:** NI233

**Pages:** 672

**ISBN:** 9788178330655

**Price:** Rs. 1,875.00 US\$ 150.00



Numerous foods are prepared by fermentation processes in which one or more kinds of microorganisms are responsible for the characteristic flavour or texture, and sometimes for the keeping quality of the product. The manufacture of fermented food products is carried out on a small scale in homes in every country. Fermented products are more palatable and are not as easily spoiled as the natural products. The microorganisms that produce the desirable changes may be the natural flora on the material to be fermented, or may be added as starter cultures. The yield of organic acids principally lactic, serve as preserving agents. Lactic acid fermentation is an anaerobic intramolecular oxidation reduction process. Both homofermentative and heterofermentative lactic acid bacteria participate in food fermentations. In some fermented food products, yeasts and moulds also participate along with lactic acid bacteria. Most of the reactions in living organisms are catalyzed by protein molecules called enzymes. Enzymes can rightly be called the catalytic machinery of living systems. The real break through of enzymes occurred with the introduction of microbial proteases into detergents. Most of the enzymes are produced by microorganisms in submerged cultures in large reactors called fermentors. In choosing the production strain several aspects have to be considered. Industrial enzyme market is growing steadily. The reason for this lies in improved production efficiency resulting in cheaper enzymes, in new application fields. Tailoring enzymes for specific applications will be a future trend with continuously improving tools and understanding of structure-function relationships and increased search for enzymes from exotic environments. This field deals with how are the enzymes used and applied in practical processes. A lot of fungal, bacterial and actinomycete strains with potential for producing novel industrial enzymes have been identified. This book contains sterilization, fermentation processes, aeration and agitation, use of yeast, yeast production, fermentation raw materials, production of bacterial enzymes, bread making methods, effluent treatment, production of actinomycete protease, lactic acid, citric acid. This handbook will be very helpful to its readers who are just beginners in this field and will also find useful for upcoming entrepreneurs, existing industries, food technologist, technical institution etc.

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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. Its various services are: Pre-feasibility study, New Project Identification, Project Feasibility and Market Study, Identification of Profitable Industrial Project Opportunities, Preparation of Project Profiles and Pre-Investment and Pre-Feasibility Studies, Market Surveys and Studies, Preparation of Techno-Economic Feasibility Reports, Identification and Selection of Plant and Machinery, Manufacturing Process and or Equipment required, General Guidance, Technical and Commercial Counseling for setting up new industrial projects and industry.

NPCS also publishes various technology books, directory, databases, detailed project reports, market survey reports on various industries and profit

making business. Besides being used by manufacturers, industrialists and entrepreneurs, our publications are also used by Indian and overseas professionals including project engineers, information services bureau, consultants and consultancy firms as one of the input in their research.

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