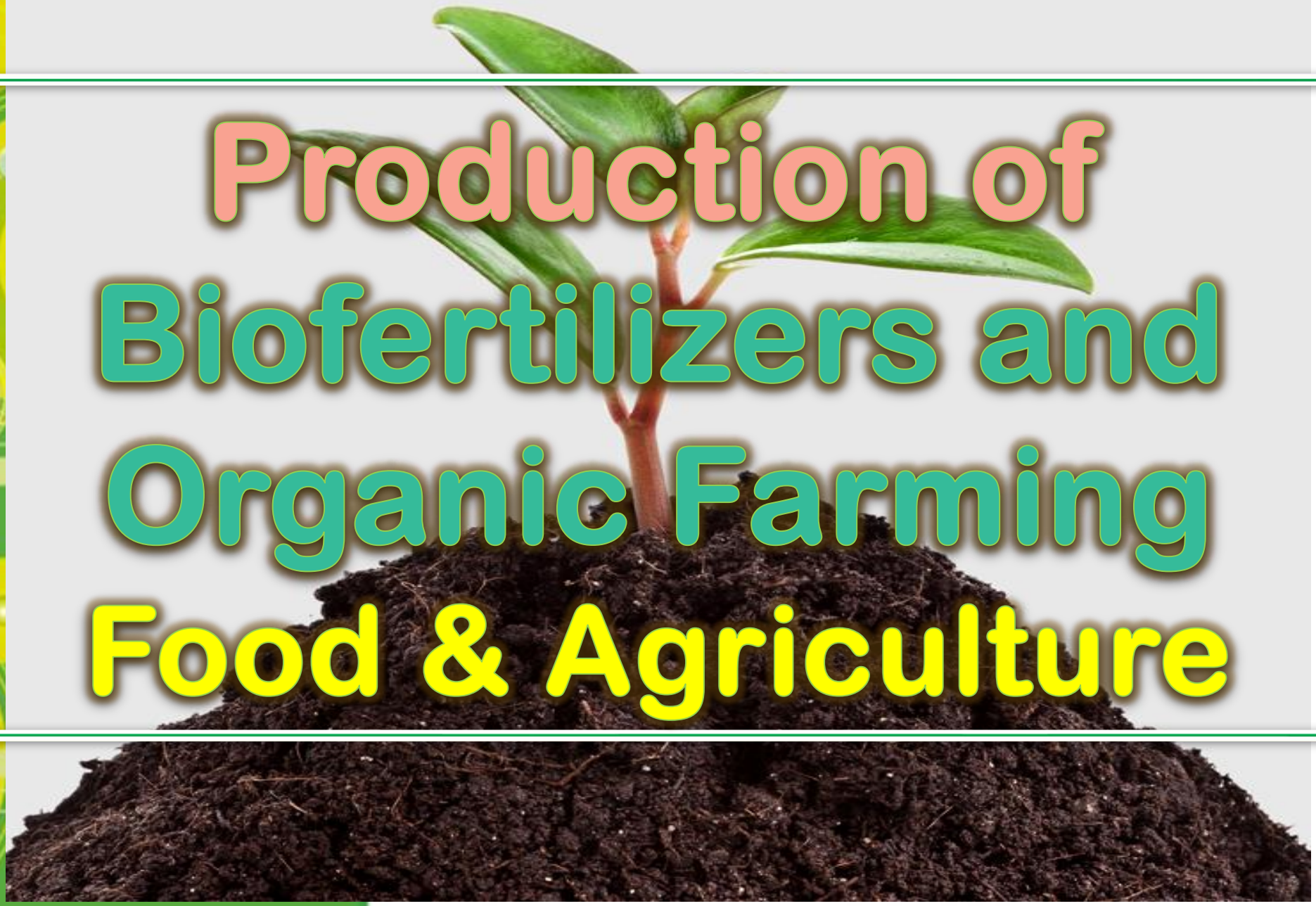


Production of Biofertilizers and Organic Farming

Food & Agriculture

Introduction

Bio-fertilizers are being essential component of organic farming are the preparations containing live or latent cells of efficient strains of nitrogen fixing, phosphate solubilizing or cellulolytic micro-organisms used for application to seed, soil or composting areas with the objective of increasing number of such micro-organisms and accelerate those microbial processes which augment the availability of nutrients that can be easily assimilated by plants. Biofertilizers play a very significant role in improving soil fertility by fixing atmospheric nitrogen, both, in association with plant roots and without it, solubilise insoluble soil phosphates and produces plant growth substances in the soil.

Use of biofertilizers is one of the important components of integrated nutrient management, as they are cost effective and renewable source of plant nutrients to supplement the chemical fertilizers for sustainable agriculture. Several microorganisms and their association with crop plants are being exploited in the production of biofertilizers.

Types of Biofertilizers:

Rhizobium
Azotobacter
Azospirillum
Cyanobacteria
Azolla
Phosphate solubilizing microorganisms (PSM)

Benefits of Bio-Fertilizer:

- *These are means of fixing the nutrient availability in the soil.*

- *Since a bio-fertilizer is technically living, it can symbiotically associate with plant roots. Involved microorganisms could readily and safely convert complex organic material into simple compounds, so that they are easily taken up by the plants. Microorganism function is in long duration, causing improvement of the soil fertility. It maintains the natural habitat of the soil. It increases crop yield by 20-30%, replaces chemical nitrogen and phosphorus by 25%, and stimulates plant growth. It can also provide protection against drought and some soil-borne diseases.*

- *Bio-fertilizers are cost-effective relative to chemical fertilizers. They have lower manufacturing costs, especially regarding nitrogen and phosphorus use.*

The increasing demands for the biofertilizers and the awareness among farmers and planters in the use of biofertilizers have paved way for the fertilizer manufactures and new entrepreneurs to get into biofertilizer production. Bio-fertilizers Demand is much higher than the availability. It is estimated that by 2020, to achieve the targeted production of 321 million tonnes of food grain.

Organic farming system is not new in India and is being followed from ancient time. It is a method of farming system which primarily aimed at cultivating that land and raising crops in such a way as to keep the soil alive and in good health by use of organic wastes (crop, animal and farm waste, aquatic waste) and other biological material along with beneficial microbes (biofertilisers) to release nutrients to crops for increased sustainable production in an eco-friendly, pollution-free environment.

Benefits of Organic Farming

- *Helps in maintaining environment health by reducing the level of pollution*
- *Reduces human & animal hazards by reducing the level of residue in the product*
- *Increases the agricultural products and makes it sustainable*
- *Ensures the optimum utilization of natural resources for short-term benefit and helps in conserving them for future generation.*
- *Saves energy for both animal and machine and reduces the risk of crop failure*
- *Improves the physical and chemical properties of soil.*

India is an agro based country. So organic farming plays an important role in agro field. 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. As the organic food market continues to expand, so do the opportunities for small farmers.

It is believed by many that organic farming is the much healthier and sustainable option. Although the health benefits of organic food are yet to be proven fully, consumers are willing to pay a higher premium for organic crops. Many farmers in India are shifting to organic farming due to the domestic and international demand for organic food.

Organic foods are produced through systematic farming methods that do not involve any usage of pesticides and harmful chemicals for production. India has around 4.2 Million hectares of land which is certified for organic farming. The emergence of organic farming is also creating a wide array of job opportunities. Increasing awareness towards nutritious and healthy food and changing lifestyle are surging the demand for organic food, particularly across the metro cities.

There is a good chance that India's organic opportunity could scale from $500 million to about $2 billion — approx $1 billion catering to the domestic market and $1 billion for export markets — by 2020.

The major contents of this book is crop response to biofertilizers, nitrogen fixation, phosphate solubilising microorganisms, application and evaluation techniques, Bio Gas production, pest and disease management system in agriculture, production, promotion, quality control, marketing, future research planning, photographs and details of machineries, list of manufacturers and suppliers of biofertilizers and organic farming in directory section.

This book will be of use and interest to consultants, researchers, libraries, entrepreneurs, manufacturers of biofertilizer and for those who wants to venture in to this field.

Table of Contents

Synergistic interaction between Biofertilizing Agents
Biofertilizing agents and Plant Disease Control
Brief account of beneficial Microorganisms
Rhizobium
Azotobacter and Azospirillum
Phosphate Solubilizing Microorganisms
Vesicular Arbuscular Mycorrhizae (VAM)
Azolla
Blue Green Algae
Plant Growth Promoting Rhizobacteria (PGPR)
Status of Biofertilizer in India
Thrust in Research and Development

2. NITROGEN FIXATION

- Biochemistry
- Historical Review
- Molecular Properties of Nitrogenase
- Dinitrogenase
- FeMo cofactor
- Dinitrogenase Reductase
- Substrates
- Energy Requirements
- Electron Donors
- Catalytic Mechanism
- Inhibitors
- Classical I nhibitors
- Regulatory Inhibitors
- Ammonia Assimilation

Genetics
Introduction
Approaches and Techniques Available
nif Genes in Klebsiella pneumoniae
Regulation of nif
Azotobacter Species
Cyanobacteria
Photosynthetic Bacteria
Rhizobium Species
Fast growing Species
Slow growing Species
Regulation
Applications
Physiology of Organisms
Aerobes
Facultative anaerobes

Anaerobes
Symbionts
Agronomic Applications
Rhizobium
Azospirillum
Cyanobacteria
Cyanobacterial Associations
Photosynthetic Bacteria
Industrial Applications
Chemical Catalysts
Ammonia Production
Hydrogen Production
Biomass Conversion
Timber Production
Phytochemical Production

3. NITROGEN FIXING MICRO-ORGANISMS : SYMBIOTIC

Biological Nitrogen Fixation
Types of Biological Nitrogen Fixation
Factors Affecting Nitrogen Fixation
Genus : Rhizobium
Rhizobia
Rhizobium/legume Symbiosis
Methods for study of legume root nodulation
Isolation
Differentiation of Rhizobium from its common associate
Agrobacterium
Tests for nodulation

Infection test
Tissue and cell cultures
Acetylene reduction assays
Use of 15N to measure Biological Nitrogen Fixation
Multiplication of rhizobia : Root hair curling
Formation of infection threads
Nodule formation
Cross Inoculation Group
Fungicide Enhancement of Nitrogen Fixation
Stem Nodules
Genus : Frankia
Biofertiliser Role
Genus - Azolla
Introduction
Morphology and taxonomy

Role of Azolla
Inoculam Production of Azolla
Factors Affecting Successful Azolla Production
Azolla Nursery
Constraints
Conclusions and Future Outlook
Integrated Approach for Increasing Microbial Inputs
Economics of Biofertiliser Use

4. NITROGEN FIXING MICRO-ORGANISMS : ASYMBIOTIC

Genus : Azospirillum
Introduction
Taxonomy

Isolation, Maintenance and Cultivation
Physiology
Genus Azotobacter
Introduction
Distribution
Classification
Morphology and Taxonomy
Isolation
Crop Responses
Blue Green Algae
Inroduction
Morphology
Constraints

5. PHOSPHATE SOLUBILIZING MICROORGANISMS : FUNGI AND BACTERIA

Problems in Phosphorus Uptake
Phosphate Fixation in Different Soils
Historical Developments
Phosphate Solubilization
Factors Affecting Phosphate Solubilization
Isolation
Mechanisms of Action
Role of acids
Other Mechanisms
Effect on Crop Yield

6. PHOSPHATE SOLUBILIZING MICRO-ORGANISM :MYCORRHIZAE

Comparision of Ectorophic and Vesicular-Arbuscular Mycorhizae

Ectomycorrhizae

Systematics of Ectomyocrrhizal Fungi and their Hosts

Morphology and Development of Ectomycorrhizae

Sources of Ectomycorrhizal Inoculum

Natural airbone spore inoculum

Soil already colonized by an EM fungus or fungi

The introduction of seedling with established mycorrhizae

The deliberate introduction of spores, sporocarps or sclerotia

Mycelial inoculum derived from pure cultures of known mycobionts

Evaluation and Selection of Ectomycorrhizal Fungi
Rapidity and extent of mycorrhization
Host response
Inorganic nutrient uptake
Water relations
Temperature tolerance
pH tolerance
Tolerance to soil toxicity
Stability of the partnership
Disease resistance
Strand formation
Ease of pure culture formation
Ease and rapidity of production
Edibity of the fruit bodies
Natural inoculum: airbone spores

Soil colonized by EM fungi
Seedlings colonized by EM fungi
Fungal sporomata or sclerotia
Mycelial inoculum
Endomycorrhizae (Vesicular-Arbuscular Mycorrhizae)
Systematics of Vesicular-Arbuscular Mycorrhizal Fungi and their Host
Morphology and Development of Vesicular-Arbuscular Mycorrhizae
Souces of VAM Inoculum
Evaluation and Selection of VAM fungi
Laboratory experiments
Greenhouse crops
Field-sown crops
Prospects

7. APPLICATION AND EVALUATION TECHNIQUES

Different Methods for Biofertilizer Inoculation
Seed inoculation
Top dressing of Biofertilizers
Granular biofertilizers:
Solarisation of FYM/Compost
Granular biofertilizer mixed with seed
Broadcasting of granular biofertilizers
Frequency of inoculation
Liquid inoculation of Biofertilizers
Methods of application of liquid inoculation
Drenching by Sprayers
Application in root zone
Culture pellet

Methods of Application of Other Biofertilizers
Blue Green Algae
Azolla
As green manuring
Azolla dual cropping
Azotobacter
Preparation and use of Azotobacter inoculant
Application
Azospirillum
Mycorrhizae
Endomycorrhizae
Ectomycorrhizae
Techinques for Isolation of Vesicular Arbuscular Mycorrhizal
Fungi (VAMF) from soil in Laboratory :

Method for examination of mycorrhizal infection in root samples :
Foliar Biofertilizer
Humar
Humic Acid
Intorduction
Application
Soil
Foliar
Seed treatment
Soil Benefit
Root
Seeds
Plants
Precautions
Different Media Used to Study Biofertilizer

I. Growth Media for Rhizobium

1. Yeast Extract Mannitol Agar
2. Congo-red Medium
3. Hofer’s Alkaline Medium
4. Glucose peptone Agar
5. Bergersenâ€™s Synthetic Medium

Media for Testing Nodulating Ability of Rhizobium

II. Isolation of Frankia

Media Used

III. Selective Media for Blue Green Alage

IV. Selective Media for Azotobacter

V. Selective Media for Azospirillum

VI Selective Media for Phosphate Solubilizing Organisms

VII Selective Medium for isolation of Pseudomonas fluorescens, a biocontrol agent

VIII Selective medium for isolation of Trichoderma an antagonistic fungus Precautions in handling

8. CROP RESPONSE TO BIOFERTILIZERS

Symbiotic Nitrogen Fixation:
Rhizobium
Irrigated Crops
Dry land Crops
Dryland Legumes
Fodder Crops
Azolla
Irrigated crop
Nonsymbiotic Nitrogen Fixation
Blue Green Algae (BGA)

Irrigated Crops
Azotobacter
Irrigated Crops
Dry land crops
Azospirillum
Irrigated Crops
Dryland Crops
Fodder Crops
Mycorrhiza
Irrigated Crops
Dryland Crops
Fodder Crops
Phosphate Solubilizing Microganisms
Irrigated Crops
Factors Affecting Crop Response to Biofertilizers

Effect of nutrient interactions
Dryland Crops
Fodder Crops
Methods of Inoculation
Other Factors
Host Response to Biofertilizers
Interaction of Inoculants with other Nutrients
Multi-Microbial Inoculation
Compatability Between Biofertilizers and Chemical Fertilizers
Adaptive Trials

9. SIMPLIFIED ANAEROBIC DIGESTERS FOR BIOFERTILIZER

Foreword
Batch Digester Plant
Results
Plug Flow Digester Plant
Results
Covered Langoon Biogas System
Results
Continuous Expansion Digester
Tests on a Small Electric Generator set Fuelled by Biogas Results
An Economic Evaluation of the Plants
Conclusions

10. MODIFIED ANAEROBIC FERMENTER FOR BIOFERTILIZER

11. OPERATING CONDITIONS FOR ANAEROBIC DIGESTION OF BIOFERTILIZER

Abstract

Introduction

Design of the Experiment

Results and Discussion

1. Effect of the initial total solids (TS) concentration on

A. TVS reduction

B. Biogas and methane

2. Effect of hydraulic retention time (0) on

A. TVS reduction

B. Biogas and methane

3. Effect of temperature on:
A. TVS reduction
B. Biogas and methane
4. Effect of mode of operation on:
A. TVS reduction
B. Biogas and methane

12. BIOGAS PRODUCTION FROM ORGANIC BIOFERTILIZER

Abstract
Introduction
Materials and Methods
Organic Wastes
Starter
Digestion Apparatus

Analytical procedures
Experimental
Results and Discussion
Biogas Production from Geranium Flour (GF)
Biogas Production from Akalona (AK)
Biogas Production from Watermelon Residue (WR)

13. BIOGAS FROM LIQUID BIOFERTILIZER DERIVED FROM BANANA AND COFFEE PROCESSING

Abstract
Introduction
Results

14. ORGANIC FARMING

Pollution Problems with Fertilizers
Water Pollution
Atmospheric pollution
Damage to crops and soils
Heavy Metal Contamination
Environment Restoration with Fertiliser
Organic Matter
Chemical nature of organic matter
Organic Manures
Organic residues
Cow dung manure
Live stock wastes
Green Manure
Importance of green manure

Green manure crops
Turning of green manure crops
Biological cont

CONTENTS INTRODUCTION TO BIOFERTILIZERS

Concept of IPNM Integrated Plant Nutrient Management (IPNM) Biofertilizer Development Materials of Biological Origin Biofertilizers Classification Potential of Biofertilizers in Crop Production in Indian Agriculture Chemically fixed Nitrogen versus Biologically fixed Nitrogen Synergistic interaction between Biofertilizing Agents Biofertilizing agents and Plant Disease Control Brief account of beneficial MicROORGANISMS RHizobium Azotobacter and Azospirillum

Phosphate Solubilizing Microorganisms Vesicular Arbuscular Mycorrhizae (VAM) Azolla Blue Green Algae Plant Growth Promoting Rhizobacteria (PGPR) Status of Biofertilizer in India Thrust in Research and Development Nitrogen Fixation Biochemistry Historical Review Molecular Properties of Nitrogenase Dinitrogenase FeMo cofactor Dinitrogenase Reductase Substrates Energy Requirements Electron Donors Catalytic Mechanism Inhibitors Classical I nhibimes

17. PEST AND DISEASE MANAGEMENT SYSTEM IN AGRICULTURE

Pesticide Usage Trend

Harmful Effects

Integrated Pest and Disease Management System (IPDMS)

Definition
Specific Objectives
Philosophy or Concepts of IPDMS
Component of IPDMS
Cultural Control
Mechanical and physical control
Biological Control
Conservation of Natural enemies
Use of Microbial Agents
Use of Predators
Cultivated crops
Varietal resistance
Pest Surveillance Methodology
Forcasting Pest Attack
Use of Selective Pesticide

Other pest Control Methods
Limitations of IPDMS
Demonstartions
Role of government and private sectors in the promotion of IPDMS

18. BIOPESTICIDES

Discovery
Development
Registration
Biological Control of Insect
Fungal Insecticides
Bacterial Insecticides
Bacillus thuringlensls (BT)

Mode of action
The question of resistance
Commercial Prospects
Improvements in BT through genetic engineering
The BT protein and the efforts on recombinant DNA in this area
Limitations of BT
Nuclear Polyhedrosis Virus
Protozon Insecticides
Possibilities of field application
Botanical Pesticides
Pheamon trap
Trichocards
Biological control of plant diseases

Soilborne diseases
Mehods for biocontrol
Biological Seed Treatment
Foliar Diseases
Introduction
Selection of biocontrol agents
Formulation and delivery system
Improved efficacy
Commercialization
Nematodes as Biological Control Agents
Production and Formulation
Biological Control of Nematodes
Biological Control of Weeds
Role of genetic engineering

19. SUSTAINABLE AGRICULTURE

- Definition
- Dimensions
- Perceptions
- Components
- Crop Diversification
- Crop Rotation
- Biological Nitrogen Fixation
- Mixed Cropping
- Soil Micorbes on Crops
- Genetic Diversity
- Integrated Nurient Management (INM)
- Integrated Pest Management (IPM)
- Sustainable Water Management

Post Harvest Technology
Extension Programmes
Sustainable Agriculture for India
Maintaining quality of the land resource
Indigenous Water Management
Conserving crop diversity
Stable farming systems
Judicious use of inputs
Role of biotechnology
Government support to farmers
Conclusion

20. PRODUCTION : PROMOTION : QUALITY CONTROL AND MARKETING

Diversification
Need for Basic Facilities
Availability of High Standard Raw Materials
Efficient strain
High grade carrier
Suitable nutrient broth
Reliable packing material
Good quality of adhesive
Application of Updated Technology
Conventional method of production
Production of freeze dried culture
Improvement on technological procedures
Production System
Sterile carrier system
Improvement in sterillisation procedure

Fermentation technology
Latest Technology on Inoculant production
Bag and carrier
Rhizobium broth
Quality Control
Isolation and Identification of bacterial strains
Screening of the pure isolated strains
In Vitro
In vivo
Fermentation
Finished Product
Production Constraints
Raw material
Bacterial strain
Economic viability
Production process

Shelf life
Production Technology (Propsed)
Establishment of efficient Culture Bank
Research and Development (R & D)
Mass Production
Promotion
Field Experiments on R & D Farm
Trials on farms
Demonstration on Farmersâ€™ Fields
Marketing
Constraints
Pricing policy and packing
Lack of awareness
Indequate shelf-life
ISI Mark
Outlook

21. FUTURE RESEARCH PLANNINGS

Production
Raw materials
Economics of production
Production of biofertilisers
Miscellaneous
Biological
Technical
Ecological
Inoculum
Establishment
Bioligical stresses
Abiotic stress
Pesticides

Soil Moisture and temperature
Survival of Rhizobial Populations
Field Level
Method of Application
Marketing
Governments Future Planning for Promotion of Biofertilisers
Future

DIRECTORY SECTION

MANUFACTURERS OF BIO-FERTILISERS AND ORGANIC FARMING

Tags

Advantages of biofertilizers, Become an Organic Farmer, Bio Fertilizer Business Opportunities, Bio fertilizer manufacturing process, Bio Fertilizer Process Plants, Bio fertilizer production line, Biofertilizer and Organic Farming Business, Biofertilizer Based Small Scale Industries Projects, Biofertilizer Business Plan, Biofertilizer Manufacturing Business Ideas, Biofertilizer Processing Industry in India, Biofertilizer Processing Profitable Projects, Biofertilizer Processing Projects, Bio-Fertilizer Processing unit, Biofertilizer Production and Application, biofertilizer production process, biofertilizer production unit, biofertilizer production, Biofertilizer Small Business Manufacturing, Bio-Fertilizers and Bio-Pesticides Unit, Bio-fertilizers in organic agriculture, Biofertilizers Technology, Biogas Production from Organic Biofertilizer, Book on Biofertilizer and Organic Farming, Business consultancy, Business consultant, Business Plan for a Startup Business, Business start-up, Formulation of Biopesticides, Great Opportunity for Startup, How to make bio fertilizer, How to manufacture bio fertilizer, How to Start a Biofertilizer business?, How to Start a Biofertilizer Production Business, How to Start a Fertilizer Business Startup Business, How to start a successful Biofertilizer business, How to start an organic farm business Startup Business, How to Start an Organic Farm, How to Start Biofertilizer Processing Industry in India, How to start fertilizer business in India, How to Start Organic Farming business in India, How to start organic farming, Industrial Project Report, Manufacture of Biofertilizer and Organic Farming,

Manufacturers of Bio-Fertilizers and Organic Farming, Most Profitable Biofertilizer Processing Business Ideas, New small scale ideas in Biofertilizer processing industry, Organic agriculture produce, Organic crops, Organic Farm Start Up, Organic farming and food production, Organic farming business plan in India, Organic Farming Entrepreneur, Organic Farming, Organic Food, Organic fruits and vegetables, Organic fruits, Organic Vegetables, Preparation of Project Profiles, Process technology books, Production of Biopesticides, Profitable Biofertilizer Business Ideas, Profitable small and cottage scale industries, Profitable Small Scale Biofertilizer Manufacturing, Project consultancy, Project consultant, Project for startups, Project identification and selection, Setting up and opening your Biofertilizer Business, Small Scale Biofertilizer Processing Projects, Small scale Biofertilizer production line, Small scale Commercial Biofertilizer making, Small Start-up Business Project, Start a Biofertilizer Manufacturing Unit, Start up India, Stand up India, Starting a Biofertilizer Processing Business, Starting a fertilizer business, Starting a New Organic Fertilizer Production Line, Starting an Organic Farm, Start-up Business Plan for Biofertilizer, Start-up Business Plan for Organic Farming, Startup ideas, Startup Project for Biofertilizer production, Startup Project for Organic Farming, Startup project plan, Startup, Types of biofertilizers, Biofertilizer technology book, Organic Farming technology book, Science and Technology of Organic Farming

Niir Project Consultancy Services (NPCS)

can provide Process Technology Book on

The Complete Technology Book on Biofertilizer and Organic Farming

See more

https://goo.gl/5JrJwh

https://goo.gl/8IWEuQ

https://goo.gl/iyuYOd

www.entrepreneurindia.co

Visit us at

www.entrepreneurindia.co

Take a look at Niir Project Consultancy Services on #Street View

https://goo.gl/VstWkd

Locate us on

Google Maps

https://goo.gl/maps/BKkUtq9gevT2

www.entrepreneurindia.co

npcs

OUR CLIENTS

Our inexhaustible Client list includes public-sector companies, Corporate Houses, Government undertaking, individual entrepreneurs, NRI, Foreign investors, non-profit organizations and educational institutions from all parts of the World. The list is just a glimpse of our esteemed & satisfied Clients.

Click here to take a look

https://goo.gl/G3ICjV

Free Instant Online Project Identification & Selection Search Facility

Selection process starts with the generation of a product idea. In order to select the most promising project, the entrepreneur needs to generate a few ideas about the possible projects.

Here's we offer a best and easiest way for every entrepreneur to searching criteria of projects on our website www.entrepreneurindia.co that is "Instant Online Project Identification and Selection"

NPCS Team has simplified the process for you by providing a "Free Instant Online Project Identification & Selection" search facility to identify projects based on multiple search parameters related to project costs namely: Plant & Machinery Cost, Total Capital Investment, Cost of the project, Rate of Return% (ROR) and Break Even Point % (BEP). You can sort the projects on the basis of mentioned pointers and identify a suitable project matching your investment requisites.

Click here to go

http://www.entrepreneurindia.co/project-identification

Contact us

Niir Project Consultancy Services

106-E, Kamla Nagar, Opp. Spark Mall,

New Delhi-110007, India.

Email: npcs.ei@gmail.com , info@entrepreneurindia.co

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595

Fax: +91-11-23841561

Website : www.entrepreneurindia.co , www.niir.org

Take a look at NIIR PROJECT CONSULTANCY SERVICES on #StreetView

https://goo.gl/VstWkd

NIIR PROJECT CONSULTANCY SERVICES

An ISO 9001:2008 Company

www.entrepreneurindia.co

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*
- *Business Plan*
- *Industry Trends*
- *Market Research Reports*
- *Technology Books and Directory*
- *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

Who do we serve?

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

Sectors We Cover

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

Sectors We Cover *Cont…*

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

Sectors We Cover *Cont…*

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

Sectors We Cover *Cont…*

- *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*
- *Inks, Stationery And Export Industries*

Sectors We Cover *Cont…*

- *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.*

Sectors We Cover *Cont…*

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

Sectors We Cover *Cont…*

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

Sectors We Cover *Cont…*

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

Contact us

Niir Project Consultancy Services

106-E, Kamla Nagar, Opp. Spark Mall,

New Delhi-110007, India.

Email: npcs.ei@gmail.com , info@entrepreneurindia.co

Tel: +91-11-23843955, 23845654, 23845886, 8800733955

Mobile: +91-9811043595

Fax: +91-11-23841561

Website : www.entrepreneurindia.co , www.niir.org

Take a look at NIIR PROJECT CONSULTANCY SERVICES on

#StreetView

https://goo.gl/VstWkd

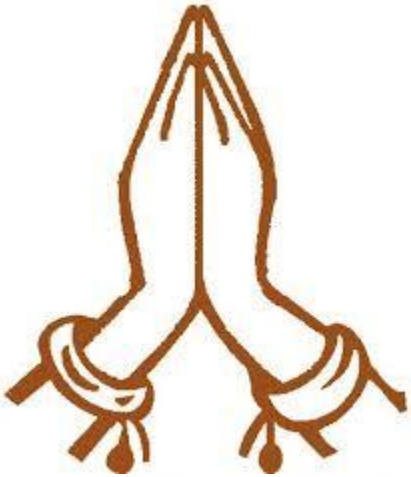
Follow Us

- https://www.linkedin.com/company/niir-project-consultancy-services
- https://www.facebook.com/NIIR.ORG
- https://www.youtube.com/user/NIIRproject
- https://plus.google.com/+EntrepreneurIndiaNewDelhi
- https://twitter.com/npcs_in
- https://www.pinterest.com/npcsindia/

www.niir.org

www.entrepreneurindia.co

npcs



THANK YOU!!!

For more information, visit us at:

www.entrepreneurindia.co