

AGRICULTURE
TODAY
GROUP



Biologicals | BioControls | Biostimulants
Natural | Ecological | Organic

20 - 21, April 2022

NASC COMPLEX, New Delhi

BioAg Asia 2022 SOUVENIR



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BIOAG ASIA 2022 ORGANIZED BY AGRICULTURE TODAY GROUP TIMELY, SUCCESSFUL INITIATIVE



BioAg Asia 2022 was thus organized by Agriculture Today Group in New Delhi from April 20-21, for bringing all bio-stimulant and bio-input companies from around the world and other key stakeholders on one platform for an insight into the future trends and dynamics and to provide a dynamic platform to explore market opportunities and forge business linkages.

OBJECTIVES:

- To provide a global platform to the industry, institutions and international bodies to showcase the potential, achievements, latest products, advanced technologies, bio-ag models, and to connect with the farmers and agri industries.
- To discuss the policy, trade, technology, business and investments environment for growth of bio-control, biofertilizer and bio-stimulant industry in India and Asian countries and sharing global

success models, products, technologies and regulatory systems.

- To discuss the research and technology interventions happening globally, trends, development dynamics and their application in Asian countries through partnerships and collaborations.
- To discuss the opportunities and scope, and problems faced by chemical intensive farming in India and Asian countries, the issue of access and equity in technologies, policy and the challenges.
- To facilitate opportunities for global companies to explore potential businesses, trade and investments, technical and marketing collaborations, exports and partnerships and signing of MoUs towards business expansion, trade and technologies for bio-control and bio-stimulants products.

EMINENT SPEAKERS

Bio Ag Asia brought a galaxy of important speakers throughout its two day meet who discussed and deliberated around several important issues in bioag sector. Some of the speakers are :

- **Dr. William Dar**, Secretary of Agriculture, Government of Philippines;
- **H.E. Dr. Manoj Nardeosingh**, Secretary General, African-Asian Rural Development Organization;
- **Dr. Trilochan Mohapatra**, Secretary – DARE and DG Indian Council of Agriculture Research Government of India;
- **Dr. MH Mehta Chairman**, ICFA Working Group on Eco Agriculture and Gujarat Life Sciences;
- **Dr. SK Malhotra**, Agriculture Commissioner Government of India;
- **Dr. Douglas Wagner**, President, International Agribusiness, AlgaEnergy, Spain;
- **Dr. K.V.S.S. Sairam**, Managing Director Prathista Industries Ltd;
- **Mr. Prem Warrior**, Chief Operating Officer and Executive Member Board of Directors at Valagro;
- **Prof. MS Reddy Chairman**, Asian PGPR Society, Auburn University, USA

BIOAG ASIA EXPO 2022

Apart from discussions and deliberations, the event also hosted BioAg Asia Expo 2022 which was a chance for the Bio Ag input and service providers to display their products, technologies and techniques. A dedicated platform for bio agriculture, BioAg Asia Expo 2022, provided exhibiting opportunities for the industry, government and research institutions, agri services and development organisations.



BIOAG ASIA B2B MEETINGS

BioAg Asia 2022's objective to serve as an effective platform for B2B meetings for the Asian and global bio-control and bio-stimulant companies, research and technology institutions and services industry so as to collaborate for technologies, products and businesses was also realised. These facilitated delegates to explore business and technology opportunities and maximize networking. Separate meeting rooms and trade tables adjacent to conference venue were provided for B2B meetings.

LAUNCH OF ASIA BIOAG FORUM

There is rapid pace of development taking place in bio-control and bio-stimulant sector globally with a large number of technology start-ups as well as large groups in crop protection and fertiliser businesses entering this futuristic segment. There is need for seamless sharing of experiences, exchange of information, holding meetings, drive policy changes and fostering trade, businesses and partnerships to catalyse growth and unleashing potential of this sector among the



Asian countries and collaborating globally. With these objectives, The Asia BioAg Forum was launched by the Agriculture Today Group.



BIOAG ASIA AWARDS 2022

Agriculture sector is undergoing a rapid transformation in India and globally. There are defining trends obtaining in favour of bio agriculture as central component in organic agriculture and safe food production strategies. This development has been possible by active support of policies, research system, commercial initiatives and farmers themselves. The experts, institutions and mcorporate, who have played seminal role in making bio-agriculture a success, need to be recognized for their tremendous contributions. The institution of the BioAg Asia Awards is a significant step in this direction to recognize the contributions of various stakeholders in bio-agriculture and bio-inputs sector. The awards were constituted in different categories to those individuals and organizations, who have made outstanding contributions in the fields of bio ag, bio-control, bio-stimulant research, extension, policies, production, delivery and commercialization.



BIOAG ASIA 2022 OUTLOOK REPORT

BioAg 2022 Outlook Report was released at the inaugural of the BioAg Asia 2022. The BioAg outlook report by Agriculture Today Group is an attempt to provide readers with credible information and an in-depth profile of the Bio Agriculture sector viz. bio-fertilizers, biopesticides, bio-stimulants, amino acids, sea weed extracts, organic manures etc.



The report will provide an insight into the global as well as national market scenario, market dynamics, trade and industry issues, policy, regulatory and technology environment and advances, R&D and innovations and challenges in bio-agriculture sector.



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Union Agriculture Minister Shri Narendra Singh Tomar launched Asia Bio Ag Forum to boost adoption of sustainable agriculture practices



Union Agriculture Minister Shri Narendra Singh Tomar launched the Asia Bio Ag Forum to boost the adoption of sustainable agricultural practices in Asia that shall ensure food and nutritional security and farmer prosperity.

The Asia Bio Ag Forum was launched at BioAg Asia 2022, a two-day conclave organized by the Agriculture Today Group at National Agriculture Science Centre (NASC), New Delhi. During the conclave, agriculture experts from diverse nations in Asia shall brainstorm on ushering in the Evergreen Revolution for food safety without threatening food security.

Speaking on the occasion, Shri Tomar said that the government is in mission mode to bring greater prosperity to farmers. Shri Tomar highlighted that the government shall do away with the practice of middlemen in the agriculture value chain so that the

farmers get the rightful price for their produce and do not face discrimination in any way. Shri Tomar inaugurated the two-day conclave and also the impressive BioAg Exhibition organized on the occasion.

Speaking on the occasion, Dr MJ Khan, President of the Agriculture Today Group and Chairman, Indian Chamber of Food and Agriculture (ICFA), said that since the decades when India had to focus on food security, the entire curriculum of agriculture universities has been designed around chemical farming systems. Dr Khan said that there is need to reorient the curriculum so that the upcoming generation of agriculture professionals is geared towards organic, natural and allied environment-friendly farming systems. He added that the global learning in these sectors needs to be available to all nations and should be contextualized to local needs.



Dr KVSS Sairam, Chairman, Prathista Industries Limited said that BioAg Asia is a unique forum bringing eminent stalwarts from ICAR and other premier research institutes, the bio agriculture industry, the farmers and others on a single platform to maximize the gains for all stakeholders.

Dr William Dar, Agriculture Minister of Philippines and Mr. Hugo Javier Gobbi, Ambassador of Argentina in India and Dr Douglas Ry Wagner, Global CEO, AlgaeEnergy, Spain, stressed that cooperation between nations is key to the global adoption of sustainable agricultural practices.

Ms Mamta Jain, CEO of the Agriculture Today Group, said that the synergy between all stakeholders shall enable the shift to environment-friendly agricultural practices both nationally and globally.

On April 21, the BioAg Asia Awards 2022 were conferred on the various awardees by Dr Trilochan Mohapatra, Director General, Indian Council of Agricultural Research (ICAR). Dr Ashok Dalwai, CEO, National Rainfed Area Authority also graced the occasion.





OUR MISSION:

**TO CREATE
A SUSTAINABLE
FUTURE FOR PEOPLE
AND NATURE.**



The core challenge is to produce more with less. In the decades to come, the world's growers will need to cope with a harsher, less predictable climate and a growing scarcity of natural resources while meeting an ever-increasing global demand for food. That's why we have distinguished ourselves on the market worldwide by our ability to offer high quality and effective solutions for plant nutrition and health.

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BioAg Asia 2022

SESSIONS AND SPEAKERS

POLICY AND BUSINESS ENVIRONMENT IN MAJOR ASIAN COUNTRIES

Chair - Dr William Dar - Hon'ble Agriculture Minister, Philippines



Dr Rattan Lal, Renowned Soil Health Scientist and World Food Prize Laureate (Online address)

Private sector can help us translate science into action. We need appropriate policy framework; ecologically sustainable agriculture; legal and institutional reform and support



CO CHAIR: H.E. Dr Manoj Nardeo Singh, Secretary General, AARDO

Rapidly and radically changing consumer food preferences and societal concerns for environment are dictating policies and investments in agribusiness.



Dr Tarun Bajaj, Director, APEDA

Complete control on supply chain is essential in order to sustain. We want to compete and sustain in the global market, so we cannot afford to compromise on quality.



Dr. MJ Saxena, Managing Director, Ayurvet

There should be more exchange programs between scientists and farmers. There is great potential and acceptability for adopting technology. The world is ready to make the shift.



Mr Sanjay Sethi, Executive Director, Plant Based Foods Industry Association

The world market is opening up for plant-based protein. India has major advantage in this sector. After the pandemic, people want food to serve as medicine. Can we ride these trends?

POLICY INITIATIVES BY INDIAN STATES FOR NATURAL FARMING

CHAIR : Dr Ashok Dalwai, CEO, National Rainfed Area Authority



Dr Arjun Saini, Director General Horticulture, Haryana

Haryana government has directed that natural farming shall be taken up in a phased manner. In the first year, the target area has been kept at 2500 acres. In the Haryana model, farmers are incentivised based on three parameters – microbial content, organic carbon and pesticide residue.



Dr PVSM Gauri, Executive Director, Association of Indian Organic Industry

Natural farming practices practised in different agro climatic conditions need to be curated to bring global learning to farmers. We must collectively work on shortening supply chains and supporting farmers scientifically.



Dr Ashok Jhadav, Former Director, National Center for Organic Farming

The nation will see a separate mission in Natural Farming, where the objective will be continuous capacity building and handholding for a longer period of time. The mission may convert 7-10 lakh ha into natural farming over a period of time. Organic and natural farming have been found to be more productive in rainfed areas.



Dr. Arvind Kumar, Vice Chancellor, Rani Lakshmi Bai Central Agricultural University

UP Government has taken up a programme covering 11 districts encompassing 21,000 farmers for organic farming. The state is creating awareness and providing master trainers. We also need to address issues related to marketing, certification, post harvest processing, crop diversification, infrastructure, crop insurance etc.



Mr Saurabh Pandey, Director, Imperial School of Agribusiness

From the marketing perspective, we need to know what is good for the health and position the agro products accordingly. There is a huge emerging market for organically and naturally produced foods. Our youth shall be able to find immense potential in this sector as entrepreneurs.



Dr Poonam Malakondaiah, Special Chief Secretary, Govt of Andhra Pradesh

The state is promoting integrated system of farming which uses lesser chemicals. Every season the usage of chemicals is reduced. The state is also keen on promoting Good Agricultural Practices. Andhra Pradesh is creating a state level accreditation agency which will be liaised with APEDA for certification in natural farming.

BIO AGRICULTURE – GLOBAL PERSPECTIVES AND ASIAN MARKETS

CHAIR - Dr William Darr, Philippine Agriculture Secretary
Moderated - Dr KVSS Sairam, MD & President, Prathista Industries



Prof. MS Reddy, Founder, Asian PGPR Association (Online Participation)

With cooperative effort, mutual agreements and removal of bureaucratic hurdles, acceptance and adoption of biological can be improved. We need to have a platform which shall collect ideas from forums like these.



Dr. Prem Warrior, Chief Operating Officer, Valagro

We cannot have universal solutions. We need customised solutions. We need to form partnerships to help each other with technologies, processes and resources.



Mr. Huzefa Khorakiwala, Director International Business, Biostadt

There will be growing demand for bio-stimulants in the future. We need to look into our own country for the source of bio-stimulants.



Dr. Harsh Bais, Professor, Plant & Soil Interface, University of Delaware

Good science leading to good technology and cheap usage of technology, especially in the

direction of microbiome research will drive biologicals to better heights.

Dr. William Darr launched the book, 'Policies and Repository Ecosystem for Biologicals in Agriculture, India' by Mr. Vipin Saini.

POLICIES AND REGULATORY ECOSYSTEM FOR BIOLOGICALS

**CHAIR : Dr S K Malhotra
Moderated by Mr Vijay Sardana**



Dr. Malhotra, Project Director (DKMA) & Former Agriculture Commissioner

Protocols need to be developed for testing biological application through drones. New innovations like organic nano products need to be adopted.



Mr. Vijay Sardana, Advocate Supreme Court & Dispute Resolution IPR

Regulation and strict compliance are important if we want to bring credibility to the sector.



Dr. AK Yadav, Former Director, National Center for Organic Farming

Small players are distorting the biologicals market. We need wider, stable and long lasting products and integrity in our actions.



Dr. Gagnesh Sharma, Director, National Center for Organic and Natural Farming

For organic farming we have good certification system and standards. In natural farming too, we need national and global standards. We need a self regulatory system for bio-fertilizers.



Mr. Vipin Saini, CEO, BASAI

We need common biological legislations and adherence to quality control at all levels. We need to harmonise our solutions if we want to sustain in a global market.

TECHNOLOGICAL ADVANCES IN BIO CONTROL AND BIO STIMULANTS

CHAIR - Dr Prem Warrior, Chief Operating Officer, Valagro

Since the past decade, we are looking at other sources like plant extracts, amino acids, peptides etc, and we are acquiring knowledge of microbiome.



Dr Nutan Kaushik, Director General, Amity Food & Agriculture Foundation

On technology front, we have to move on from traditional microbial based pesticides to the new dimensions of microbial metabolite based pesticides as they are more stable and have longer shelf life.



Dr S Narayanan, Director, Green Star Fertiliser

We have to come to the stage where we can formulate plant specific and soil specific products because of the flexibility of multi-level fermentation processes.



Ms Vaishnavi Machiraju, MD, Vaishnavi Biotech International Ltd

Quality parameters are very important. These need to be standardised and uniformly implemented across India.



Dr Mukesh Patel, Founder Agriland Biotech

We have developed 80 insect sex pheromones of many notorious pests. We have also developed a technology of decomposing microbes, especially lignin, cellulose and hemicellulose.



Dr Shailendra Singh, COO Agro, Zydex

We have developed a system of bio farming where farmers can shift from chemical farming to non-chemical farming in one crop cycle.



Mr Dev Bharadwaj, Founder Fascorp and Kissan Manch

"We want to move to GA4 and GA 7 apple quality to meet the standards of our global competitors. Unfortunately we are not able to do so due to regulation issues.

SUCCESSFUL INNOVATIONS IN BIO-INPUTS

CHAIR : Dr Ajit Varma, Group Deputy Vice Chancellor, AMITY University

We have miles to go where the adoption of environment friendly agriculture practices are concerned. Food security is a major concern. Equally, the sustainability of agriculture must concern us all. We have to identify and follow the set of practices that shall ensure the prosperity of farmers, protection of the environment and food security for the nation.



Sh Debabrata Sarkar, Vice President, Asia Pacific, AlgaEnergy

Innovation in bio inputs shall play a

major role in strengthening this sector. It shall also play a key role in addressing the issue of food security, and improving soil fertility. Post-harvest technology is important to minimize the losses.



Dr Mahesh Sharma, Professor, SKN Agriculture University, Jobner

We have to seriously pursue organic and natural forms of agriculture. It is also important to increase the organic carbon content of soil. The pesticides and chemicals used in production are leading to serious diseases like cancer. It is time for the evergreen shift to happen.



Dr Krishna Sundari, Dean Biotech, Jaypee University and Coordinator, CEMAP & TSSR

Food production targets are getting higher. This is a huge global challenge. If we keep dumping pesticides, fungicides, weedicides and chemical fertilizers into the soil, what kind of food are we

producing? What about the residues left in the soil? These are important concerns for us all.



Dr Rajaram Tripathi, Chairman, Central Herbal Agro Marketing Federation of India

The budget for organic farming is a fraction of the budget for chemical farming. Organic farmers face many challenges at ground level. The irony is that agricultural scientists have not reached all farmers but the traders have reached us and taken us in their grip. Now they are exploiting us.



Mr TS Mann, Director Marketing, Heli Electro Solutions

Enhanced production demands innovations. Nano fertilizers are a successful innovation. The organic tea spray oil developed by us is another successful innovation. New thinking and new breakthroughs are essential to address the concerns of the farmers.



Dr L Joji Reddy SJ – President, Xavier Board of Higher Education India

With all our research and all our intentions to help the farmer and sustain the environment, we are still going wrong. Chemical agriculture is not the right pursuit. We have to examine where we are headed.

CEO'S SESSION ON GLOBAL OPPORTUNITIES FOR INDIA

CHAIR & MODERATOR : Dr Douglas Ry Wagner, President Agribusiness, AlgaEnergy

The opportunity for India in global BioAg is phenomenal. The success of BioAg is going to depend on the participation of companies. The commercial aspect of this is extremely important. We need commercial channels and aggressive marketing for growers to adopt these new practices. Equally important is innovation and the use of breakthrough technologies.



Mr Raju Kapoor, Director, Corporate Affairs, FMC Corporation

Solutions to the challenges we face in agriculture have to be integrated. There is a lot of science that goes behind the development of agrochemicals. We all need to work together, and not in isolation by playing one against another. Most of all, we believe in safe and sustainable food.



Dr Santosh Sahane, CEO & Founder Forecast Agrotech Innovations

Global opportunities shall be available for those who have innovations, who have regulations in place, and who follow a proper education system for farmer awareness. Globally, organic growers face shortage of essential organic nutrients. India has the potential to meet this demand.



Mr Rahul Mathur, National Marketing Head, IPL Biologicals

We can restore soil health with microbial solutions. It is a highly viable solution for long-term benefits and rejuvenation of soil layer. We can partner in these areas for regenerative agriculture.



Mrs Madhu Dixit, Co-Founder, Organikrishi

There are multiple opportunities opening up for India globally. The Russia-Ukraine war has impacted sunflower oil import. It is a new area of opportunity for our farmers to meet the demand. Our farmers can grow vanilla flower. It has a huge market. Jivamrit and Ghan Jivamrit can be exported. Better organic preservatives can be developed by us for longer shelf life of products.

Road Map For Sustainable Bio Agri Model



CHAIR - Sh Tarun Shridhar, Former Secretary, Animal Husbandry, Dairy and Fisheries

For following bio-agriculture, we have to give precedence to science and imbibe wisdom from traditional models. There is eroding customer confidence in food products, and fears of food safety. These must be appropriately addressed.



Dr MJ Khan, Chairman, Indian Chamber of Food and Agriculture

Food security is national pride. It is linked to national security. Sustainability has come to the centre stage of world food production. We have to discuss policy framework and help the states in achieving the objectives.



Dr AK Singh, DDG Agriculture Extension, ICAR and Agriculture Commissioner GOI

Different states adopting are different models for bio agriculture. Clusters are being developed all over the country to promote production of organic or naturally produced foods. More and more business tie ups are happening for the marketing of organic produce. The government is helping and boosting these efforts to strengthen the sector.



Dr Sairam, MD & President, Prathista Industries Limited

Importing biologicals with microorganisms can be risky. It needs long term study. The import of live organism-based products has to be addressed very seriously. It is important to bring foreign technologies. Equally, we must make optimum use of traditional Indian knowledge.



Dr MH Mehta, Chairman, Working Group on Eco Agriculture, ICFA

Evergreen eco-revolution is possible if we follow the 20:20 model. This is a viable method by which there is no discouraging fall in yield. Gradually, the farmer is able to make a complete shift to organic farming in a sustainable manner.



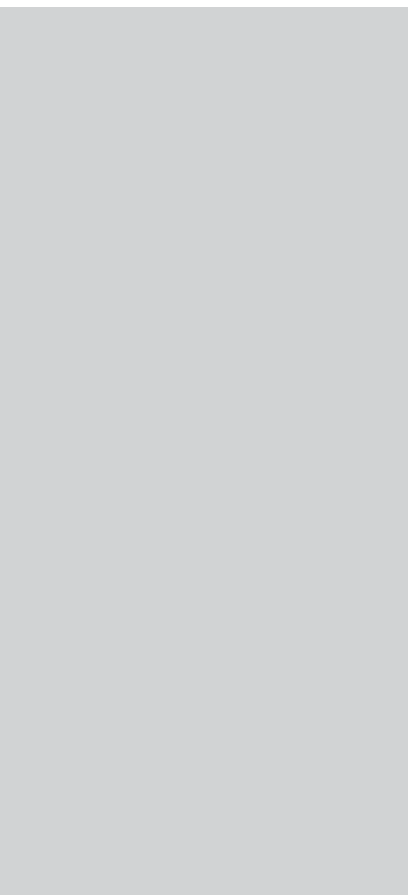
Sh Harpal Singh Grewal - Chairman, Heavenly Farms

Organic farming must be done with the principles of Ayurved. Farmers who want to pursue organic farming need proper guidance and hand-holding. But even proper seeds are not available.



Mr Ashudeep Garg - Corporate Development Head, Absolute Foods

It is essential to have control over the residue-free food chain. Traceability is essential for competitiveness in the export market.





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BIOAG ASIA 2022 AWARDEES

Best BioAg Startup 2022		ORGANIKRISHI
Best Bio-Agriculture Products		BIOSTADT INDIA LIMITED
Best Bio-Stimulant Products		ALGAENERGY, MADRID, SPAIN
BioAg Innovation		AGRILAND BIOTECH LIMITED
BioAg Market Impact		GREENSTAR FERTILIZERS LIMITED
Best BioAg Company in R&D		PRATHISTA INDUSTRIES LIMITED
Best BioAg Company		IPL BIOLOGICALS LIMITED
Best BioAg CEO		MR DEBABRATA SARKAR
Best BioAg Farmer		SH HARPAL SINGH GREWAL
Policy Leadership		DR SK MALHOTRA
Best District in Bio-Agriculture		PILIBHIT DISTRICT, UP
Best State in Bio-Agriculture		ANDHRA PRADESH
BioAg Asia Leadership		VALAGRO
BioAg Global Leadership		UPL GROUP
Special Recognition		DR ASHOK K YADAV
Special Achievement		DR NUTAN KAUSHIK
Lifetime Achievement		DR AJIT VARMA
Special Recognition		DR MS REDDY

GLIMPSES OF AWARDEES



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- Bio Fertilizers
- Bio Stimulants/PGPR's
- Soil Micro Nutrients
- Botanical Pesticides



Attention Farmers & Conscious Indian Citizens !!

Food Quality and Safety have drawn unprecedented concern of Consumers in the world. Growing environmental awareness and Food hazards have eroded the consumer's trust in Food and production processes. Intensive chemically exposed conventional farming methods contaminate the food chain. For these reasons, consumers are yearning for safer and better foods that are produced organically through ecological ways with authentic Bio Products. In recent years, organic farming as a cultivation process has gained increasing popularity. Organic products have become a part of the go-green lifestyle and are ranked higher among consumers' choices compared to their conventional counterparts. But, the question is what is meant by organic farming ? and which authentic Bio Products should be used to produce foods organically.

'HELI AGRO', an ISO 9001:2015 certified company, was established with a mission to manufacture and promote Bio-Fertilizers/Bio-Pesticides, Bio Stimulants/PGPR's, Bio Fungicides and Botanical Pesticides developed from natural plant extracts, bacteria rich Organic Manure and Micro Nutrients at our state of art manufacturing & testing facility at Navsari, Gujarat. We are committed to adopt and spread the main principles and practices of "Organic farming and food production" that inspires and enhances biological cycles in the farming system. "HELI AGRO" manufactures 100% Organic Agro Products. We use micro-organisms containing living cells that help crop plants for uptake of nutrients easily & protects them from plant diseases. Organic compost is derived from natural sources enriched with N,P,K,Zn Bacteria. We develop Nitrogen fixing Bacteria (Azotobacter, Rhizobium, Azospirillum, Acetobacter), Phosphate Solubilizing (PSB), Potash Mobilizing Bacteria (KMB), Zinc Solubilizing Bacteria (ZSB), Mycorrhiza (VAM), Liquid and carrier based microbial consortia (NPK), Bio-stimulants derived from natural sources like Humic, Fulvic, Amino acids, Seaweed extracts, Protein, Vitamins, Biopesticides derived from plant pathogenic fungi's like Tricoderma, Verticillium, Metarhizium, Beauveria and derived from bacteria like Bacillus Thurengensis, Bacillus Subtilis, Pseudomonas. Botanical Pesticides derived from Neem, karanj oil based products with added Azadirachtin. Our Bio products can be used for applications on all types of fruit plants, pulses, cereals, Botanical, Cash Crops cotton etc. Our products are cheaper, pollution free and renewable energy sources.

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RECOMMENDATIONS :

- Simple protocol for testing of new products.
- A platform which shall collect ideas from different sources and present it to the government.
- Stringent guidelines to manage quality.
- Separate biological legislation.
- Decentralized independent authority for biologicals.
- Transition from microbial products to metabolite based microbial biologicals.
- Scientific validation of traditional knowledge.
- Transition to liquid based formulations .
- Stop promoting solid formulations.
- A self regulatory system for biofertilizers like PGS.
- Protocols need to be developed for testing biological application through drones.
- New innovations like organic nano products need to be adopted.
- Formation of sub-committees to focus on specific dynamics of the sector.
- Small expert groups to do simulation modelling .
- Need for systematic implementation of science-based technologies and innovations to attain the maximum potential of food production areas .
- Essential to judicious and balanced use of organic and inorganic farm inputs to enhance crop yields, ensure quality of produce, and subsequently increase farmers' incomes.
- Ensure traceability
- Collective actions towards increasing productivity must always be backed up by extensive research and field validation.
- Find common cause in global food security and agricultural technology benchmarks.
- Finalize free trade agreement between countries, thereby pushing for solid trade partnership for agricultural technology.

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