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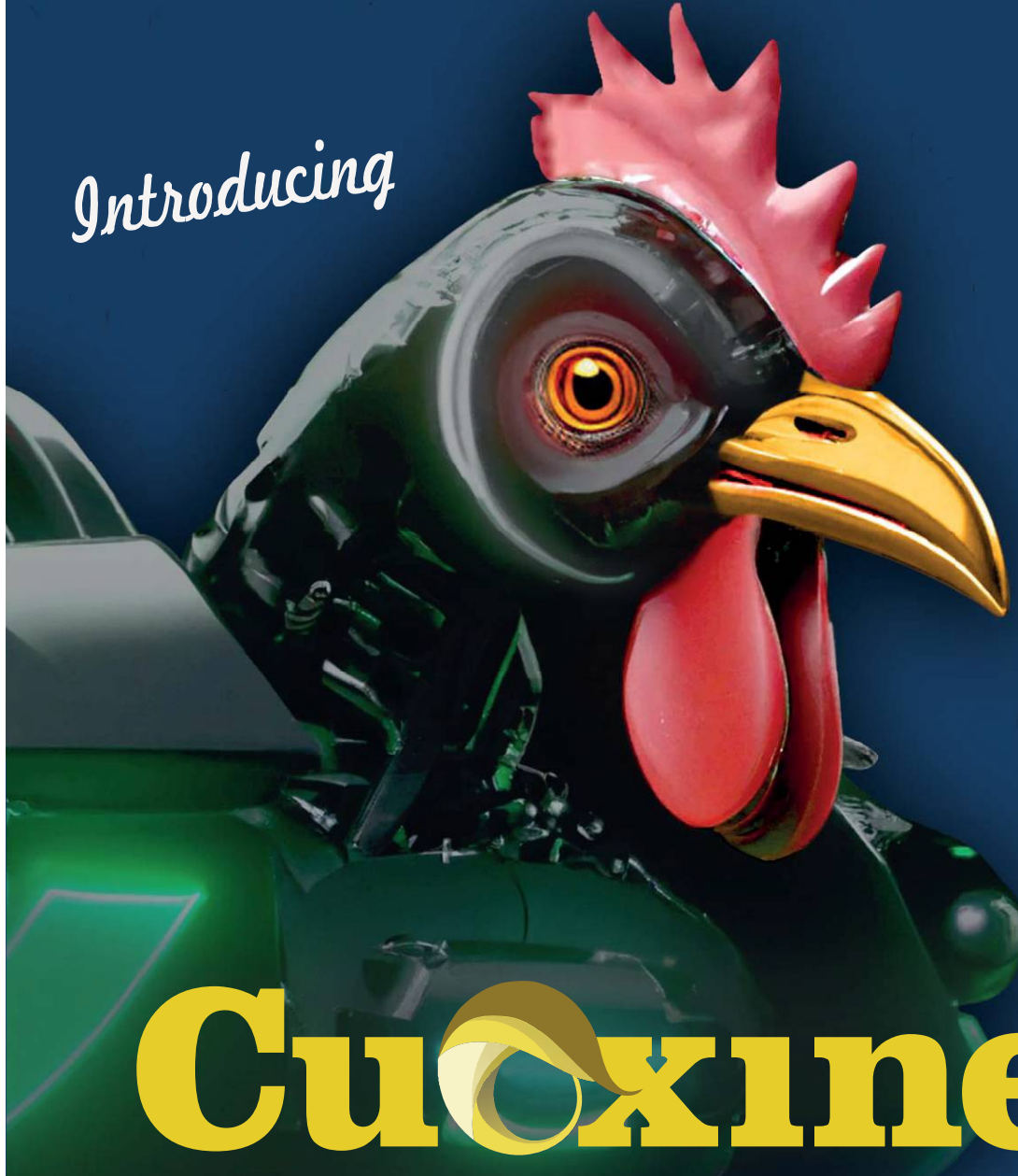
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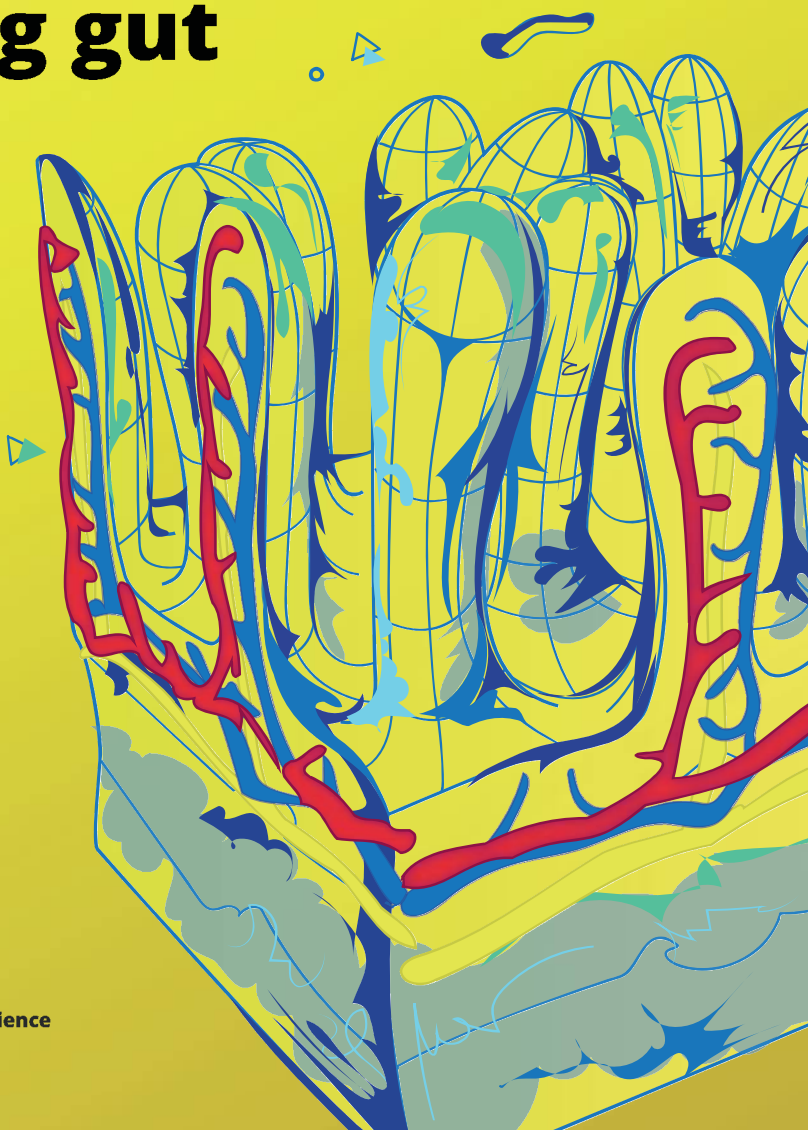


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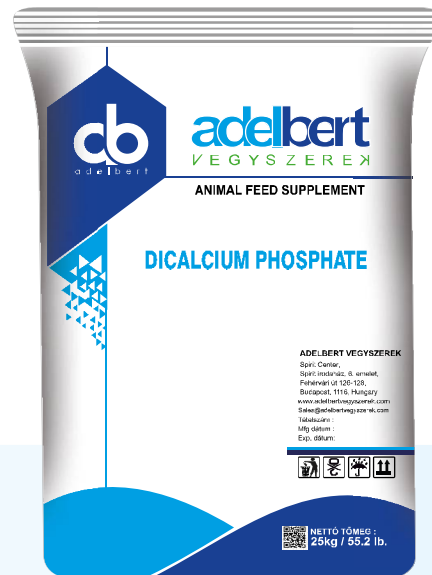
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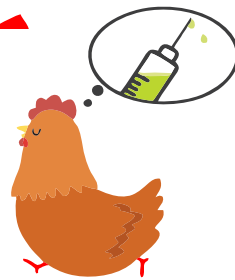
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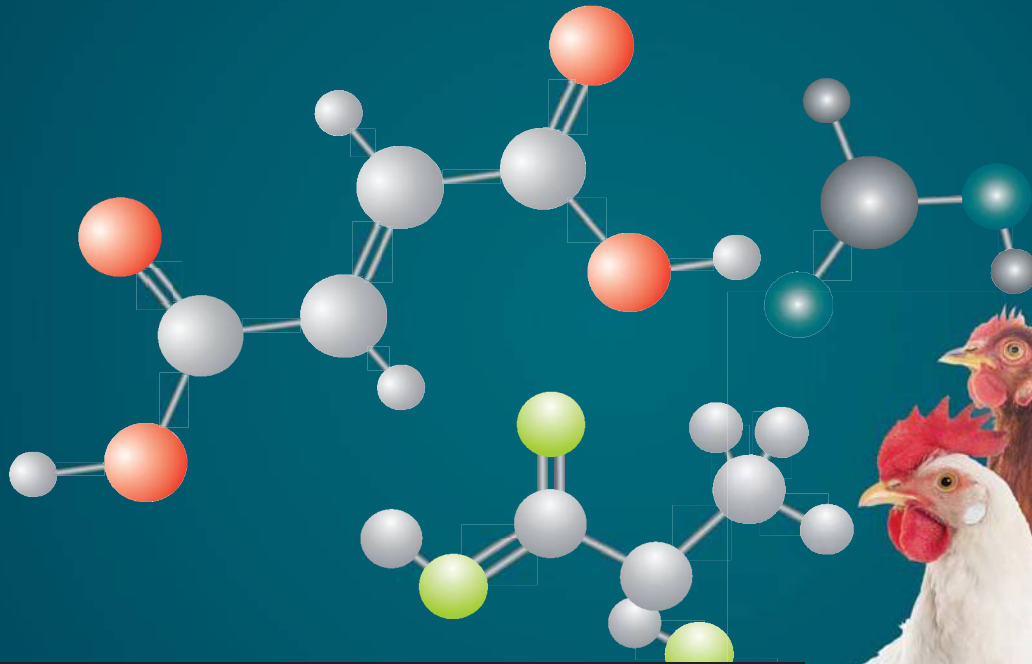
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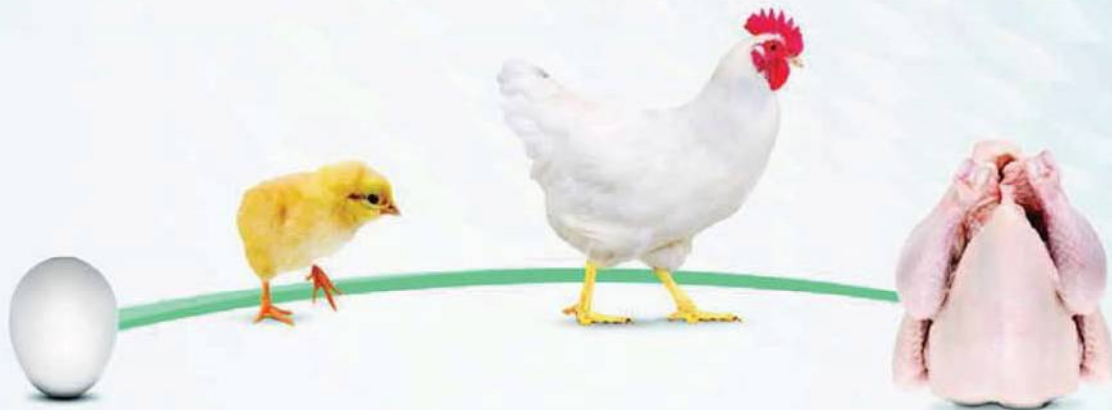
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## **Politics sans borders! Or Politics without borders**



Are we in an era of religious war in these modern times – it is shocking if this is true? Atrocities and genocide of Hindus is being committed in Bangladesh and not a word from the Western Powers, the United Nations, or the seculars of India? Have the others ganged up against this religious minority of Bangladesh – it is a serious question to be asked?

The first choice of the safety of life of the Prime Minister of Bangladesh is India and not the 56 other countries where she was unwelcome and did not feel safe – what a paradox, what an irony?

The greed for power and love for position has blinded political leaders to tolerate, overlook the rape victims, and protect the perpetrators of the crime – a sad moment in humanity. Is the society decaying at such a fast rate?

The justice system in India needs to be urgently revamped to build confidence among the citizens of India. People feel the justice is failing by blatant support of a particular community, the powerful and the influential. Criminals are supported against the victims – the very purpose of justice system is defeated.

The international influence on Indian politics is getting very obvious and clear. The downfall of Bangladesh government was a conspiracy hatched in the west. People need to read between the lines to know the facts about certain leaders, and the influences that are clear manipulators. The knowledge and awareness among Indian citizens can help fight, such cancer.

Today's politics is beyond borders and influenced deeply by factors across the international borders.

Despite the best efforts of Sri, Narendra, Modi visiting Russia and Ukraine, the end result is astonishing. The Ukrainian president seem to be happy with the ongoing war and is displaying least interest in peace. The powerful prefer war to peace.

In large democracies like USA & India the elections are fought like wars these days. The political opponents go to any extent just to gain power, including aligning with enemies, and those that are against their own national interest.

The foreign policy of India is made clear recently by informing the terror neighbour that there shall be no more talks, but only consequences of actions by them. Bangladesh must soon realize that it cannot have the luxury of opposing India and manage to survive. Only an unwise leadership will entertain such thoughts. The lifeline of Bangladesh depends very much on the mercy of India many of the neighbouring countries have discovered this at a high cost.



# POULTRY FARMING IN A RURAL BACKYARD

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The backyard poultry farming industry is primarily characterized by low or no input levels, natural chick hatching, a scavenging system with minimal supplemental feeding, low productivity of the birds (low egg production and reduced weight gain), local marketing, and a lack of appropriate health care practices. Since the beginning of time, backyard chicken raising in India has been crucial to supplying the home and sociocultural needs of the rural populace. More over 50% of this country's inhabitants relied on traditional village poultry farming as their main source of animal protein and additional revenue, but commercialization has recently affected the industry. True backyard chicken farming involves five to ten birds per home. The main obstacles to this farming system were determined to be the high rate of diseases, the scarcity of appropriate germplasm, and predator attacks.

While only a small percentage of backyard poultry farmers maintain their birds in pucca houses, the majority of farmers raise their birds in kuccha houses, which are made from locally accessible materials such broken bricks, mud, tiles, wire net, wood, etc. A typical poultry house will measure four feet in length, three feet in width, and two and a half stories high. These homes are simple to maintain and aid in the frequent removal of droppings, which lowers the risk of diseases and parasite infestation.

According to this system, the farmers release the birds early in the morning, leaving them to forage around the home, in the fields, in the gardens, in the hamlet, in the lanes, etc. The birds typically eat green grasses, ants, earthworms, grasshoppers, kitchen scraps, leafy vegetables, seeds, and other items when scavenging. Apart from foraging, the owners of the poultry occasionally provide a handful of broken bajra, maize, rice, wheat, etc.

Owners of chickens typically let their chicks hatch naturally, using desi broody hens as a natural incubator. The majority of the time, women take

care of broody hens by giving them a place to nest, food, and water until they hatch. To prevent any disturbance, the nesting locations are typically found in quiet, dark corners of the house and come equipped with enough of bedding and litter. Every broody hen typically has 8–10 eggs laid beneath her, and the chicks hatch out after 21 days. On the second or third day following hatching, the chicks are usually taken from the broody hens and left to scavenge with their mother. Approximately 7-8 months is the average age at first laying. Eggs are between 35 and 40 g in weight. 50–60 eggs on average are produced annually per hen. When the bird was disposed of, its average age is 70–80 weeks and its average body weight is 1.5–2 kg.

The demand for rural backyard poultry is rather significant in north-eastern India, particularly in tribal communities. Under backyard poultry, the small rural producers raise colored birds and brown-shelled eggs that satisfy the needs of rural consumers. Therefore, implementing a targeted program for rural poultry production is necessary.

The All India Coordinated Research Project on Poultry (AICRPP) was launched by the Indian Council of Agricultural Research (ICAR), New Delhi, as a program for improving low input technology birds across the nation. Eventually, some high yielding varieties such as Giriraja, Gramlakshmi, Grampriya, Krishilayer, Vanaraja, and others were released.

Backyard farming is a long-standing and intricate method used by farm families to support their nutritional demands or minor financial needs. The normal flock size of backyard birds raised is five to twenty native breed or unremarkable fowls, or enhanced backyard birds. It is an additional household activity rather than a career. Here, the primary purposes of raising the birds are additional revenue and food security. In addition to their usual domestic duties, women and children living

in the house will take care of these birds. In this farming practice, birds are kept in houses at night and given free free-range during the day. In order to augment their scavenging, they are typically fed a handful of grain in the morning and evening. Therefore, special nutrition is not necessary. A small flock of chickens will produce more eggs and have a higher livability and growth rate with a minor increase in care. Usually, non-descript chickens or particular breeds or strains bred for this purpose are utilized. Exotic varieties with high yields fall short of expectations in this system.

The foundation for converting the rural poultry sector from one of subsistence to one of greater economic productivity is backyard poultry production. Additionally, a rise in backyard chicken production would benefit household food security by increasing dietary consumption and generating money. Therefore, the Indian government has long backed initiatives aimed at boosting backyard poultry production in order to increase the output of meat and eggs. As a result, several significant backyard chicken varieties, including Debendra, Giriraja, Gramapriya, Krishna-J, Swarnadhara, and Vanaraja, have been released.

### The Importance of Backyard Poultry Production

Since ancient times, rural people have raised animals in their backyards using a traditional method known as backyard poultry. This kind of organic farming produces meat and eggs without any hazardous residues. It's a sustainable strategy. In addition, these are necessary for particular celebrations and customary rituals, and they also actively combat pests and produce manure. The benefits of having backyard chickens include quick additional revenue generation with very little initial investment, ease of use, and guaranteed access to eggs and meat even in isolated rural places. Due to their widespread use, indigenous birds have improved their ability to adapt and protect against diseases and predators. The rural poor have come to accept backyard poultry since it requires the least amount of infrastructure. Backyard chicken

farming using scavenging is common in tropical nations like Bangladesh, India, and others. The birds are restricted by this system to a large or little enclosed area where they receive greater attention and protection. During the day, the birds can hunt for food. As a result, unlike in the case of a commercial system, they are not entirely contained; instead, birds are given night shelters, which are utilized to restrict them at night. As a result, they don't need special food, however they are typically given a small amount of grain in the morning and evening to help with scavenging. The birds in the flock are often of the same species, though they can also be of different ages and sexes. Because more care is taken and the flock is uniform, the growth rate and egg production are better than in the free range method. The primary reason a farmer raises birds in their backyard is to feed their own family with eggs and meat. They are able to do this by effectively using leftover food leftovers, housekeeping scraps, and waste grains. When compared to free-range poultry, this approach needs the following in order to increase returns.

- Vigorous producers with the ability to scavenge in the field.
- Adequate shelter and significant supplemental feeding to improve productivity.
- Adherence to a proper vaccine and medication schedule to lower disease-related mortality.

Some regions of the nation also raise smaller numbers of native breeds that have evolved and adapted over time. For your knowledge, the following list of breed names:

| Breed          | Home Tract                        |
|----------------|-----------------------------------|
| Ankaleshwar    | Gujarat                           |
| Aseel (Fig. 7) | Andhra Pradesh and Madhya Pradesh |
| Busra          | Gujarat and Maharashtra           |
| Chittagong     | Meghalaya and Tripura             |
| Danki          | Andhra Pradesh                    |

|                    |                              |
|--------------------|------------------------------|
| Daothigir          | Assam                        |
| Ghagus             | Andhra Pradesh and Karnataka |
| Harringhata Black  | West Bengal                  |
| Kadaknath (Fig. 8) | Madhya Pradesh               |
| Kalasthi           | Andhra Pradesh               |
| Kashmir Faverolla  | Jammu and Kashmir            |
| Miri               | Assam                        |
| Nicobari           | Andaman & Nicobar            |
| Punjab Brown       | Punjab and Haryana           |
| Tellichery         | Kerala                       |

### Management of backyard poultry

Even though backyard farming involves a complex system for raising birds, some additional feeding is still necessary to increase productivity. The availability of a night shelter will aid in defence against harsh weather and predators.

### Supplementary Feeding and Watering

When raising birds in a backyard, the birds scavenge outside throughout the day for food, eating things like insects, vermin, and crop leftovers. However, scavenging is not a sufficient source of food for birds to achieve maximum productivity. Scavenging birds' dietary intake varies depending on the location, the seasons, the crops cultivated, and the amount of native flora. Food in the form of worms, insects, and leftovers from harvest will be abundant throughout the rainy season and harvest, but it will be scarce during the dry season. In experiments in the field, the body weight and egg production of scavenging birds are positively impacted by feed additives, such as oilseed cakes and domestic trash (boiled potatoes, yams, or cassava tubers). Therefore, to enhance scavenging, a small amount of grains or kitchen scraps can be fed in the morning and evening. In family poultry, common feedstuffs include kitchen scraps, millet bran, grower mash, and poultry mash in addition to maize grains. Grain is often fed into one hopper while mash or pellets are placed into another. Because pellets' larger particles are less likely to blow out of

feeders, some home chicken farmers utilize them for feeding. Hens are encouraged to scratch in the litter and maintain their hygiene when whole grain is fed by distributing it over the litter

The proper feed supplementation technique is critical to the development, health, and survival of young chicks. In the first several weeks of their lives, the chicks will die if they are not supplemented. Given that it is well known that adequate protein in the diet is necessary to strengthen the developing chick's immune system, mortality can be decreased with the supplement's 26% crude protein content. The scavenging feed base is critical to backyard bird propagation. The quantity of feed that birds may scavenge in a given area is known as the scavenging feed base, and it is crucial for egg production, body weight gain, and ultimately profitability. Supplementary feed base is correlated with soil type, cropping systems, and cropping intensity, with wheat, maize, rice, sugarcane, and finger millets being the main crops (Fig. 1).



Fig. 1 Supplementary Feeding

Make sure the birds in shelter and those outside have a steady supply of clean water at all times. Water and feeders must to be positioned for convenience. Each bird should have four inches of feeding area. Make sure there is adequate room for every bird to eat at the same time. As the birds age, feeders and waterers should be elevated. When the bird is standing normally on the floor, the top of the feeder should be raised to at least the level of its back. It should be necessary for the birds to reach above and beyond the feeder's edge. This will lessen the chance of feed wastage. This will minimize the quantity of supplemental feed that the farm family must supply and give the birds easy access to their primary diet of insects and seeds that they gather for themselves. Grain or leftover household items should only be fed within the shelter. The birds will learn to gladly enter the enclosure before dusk if this is



consistently offered in the evening.

### c) A Night Shelter

Raising poultry in a backyard requires securing the birds in a safe shelter at night to keep them safe from nocturnal predators. During the day, when the predators are less active, the birds can be let to freely roam the enclosure. While some are constructed of wire mesh, the majority of the night shelters are composed of bricks. There are two types of roofing: corrugated iron and thatch (Fig.2).



Fig.2 Chicken coop at night

Basic prerequisites for a night time shelter are:

Protection from weather

Protection from predators

Enough space to move around

Adequate ventilation

A clean environment

So, when constructing a night shelter for birds in a backyard raising system, bear the following points in mind.

- To avoid extended dampness and water saturation of the floor and outside spaces, build the bird house on higher, well-drained locations. As much room as possible should be given to each bird to prevent congestion.
- A dark, raised, secure nesting space with nests containing clean nesting material should be accessible for laying hens;
- Use building materials that will be simple to clean and disinfect, if needed. Nests may be located within the shelter itself or in the gated area.
- If artificial light is available in the morning and evening to provide 15 to 16 hours of light every day, hens will lay a lot more eggs.
- Take out any projecting or loose wire, nails, or other anything with sharp edges from the house,

then flee. Remove any additional projections where the birds could try to perch, excluding specially designed perches, as they could hurt themselves trying to perch on inappropriate objects.

- The night shelter housing must also offer a steady atmosphere where the birds can live in comfort and without worry. A shelter that provides ideal temperatures, clean air, and enough light is necessary for hens.

### CLUSTER FARMING

The government supports raising chickens in backyards. For this reason, improved varieties known as “Low technology input birds”—which are genetically more productive than “Native chicken”—are developed. Most birds with limited technology input have two purposes. The birds are able to tolerate varying diet levels and can also replenish themselves by scavenging. They grow quicker than native chicken, reaching 1.5 kilogram weight in 45 days. Unlike the native birds, which are broody and only lay 60 eggs a year, whereas the improved variety females lay 160 eggs.

These chickens can be used in “cluster farming” in rural regions to increase meat production along the lines of broiler farming.

- A cluster of 8 to 10 farmers or young people with education can raise birds in inexpensive buildings in groups of 500–1,000 birds, just like broilers do. The producer works alone and grows the birds on a “All in, All out” basis.
- The group can advance to “organic chicken” by producing inexpensive feeds free of antibiotics and pesticides on their own. The group can sell the birds at neighbourhood mandis or provide them under a brand to supermarkets.
- Slow-growing, multicoloured chickens with tougher flesh are more profitable than broilers, whose meat is becoming tender every year. This is turning into a more profitable “niche market.”

Limitations of Backyard poultry production

High disease incidence

Insufficient germplasm

Predator attacks

Unorganized marketing

Low productivity

Relatively low income generation and lack of knowledge

**Conclusion**

- Minimal or no input is needed for backyard farming.
- Low productivity birds are employed.
- Daytime scavenging and free range; night time shelter in the kuccha house.
- Backyard farming provides the household's meat and egg requirements
- The possibility of a high diseases incidence cannot be ruled out.

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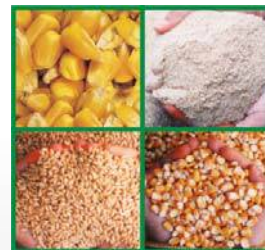


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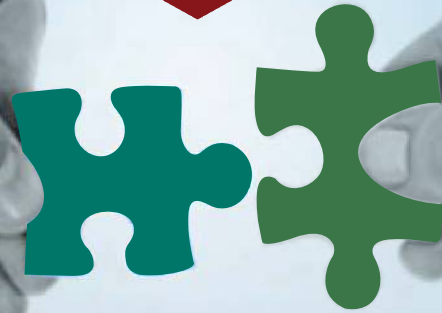
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### Composition

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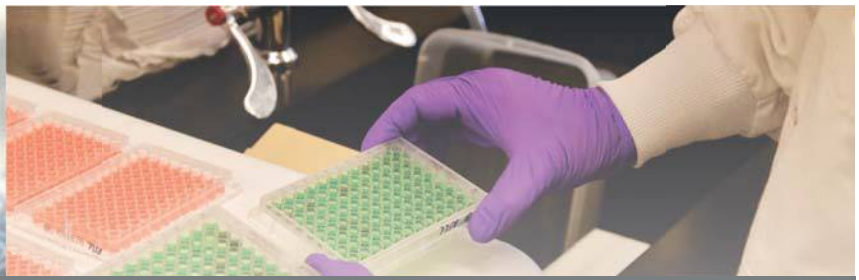


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## Unveiling Success: Indian Herbs Specialities Organized Spectacular One-Day Technical Seminar at Kathmandu, Nepal, on August 8, 2024

Indian Herbs Specialities Pvt. Ltd. organized a Spectacular One-Day Technical Seminar in Kathmandu, Nepal, on August 8, 2024. The event was a resounding success, making a lasting impression on both attendees and organizers. The seminar's theme, "Recent Advancements in Poultry Nutrition and the Role of Phyto-genic Feed Supplements," addressed critical aspects essential for sustainable poultry farming.

The event was elevated by the esteemed presence of key dignitaries, including the chief guest, Dr. Umesh Dahal, Director General of the Department of Livestock Services; guest of honor, Dr. Kedar Subedi, General Secretary of the Nepal Veterinary Association; Dr. Nabaraj Shrestha, General Secretary of the Veterinary Practitioner's Association Nepal; Dr. Dinesh Gautam, Technical Advisor to the Nepal Poultry Federation; Mr. Rabin Puri, President of the Nepal Feed Industries Association; and Mr. K. P. Lamsal, Managing Director of Simurg International Pvt. Ltd.

Key highlights of the seminar included a noteworthy address by Dr. Umesh Dahal and an insightful session by Dr. Dinesh Gautam on "Recent Advancements in Poultry Nutrition." Dr. Dinesh Gautam addressed the topic of using alternate feed ingredients such as DDGS in poultry feed, emphasizing the importance of alternatives such as phyto-genics, prebiotics, probiotics, and postbiotics. His discussion focused on minimizing the use of antibiotics and synthetic chemicals in poultry feed to enhance the health and immunity of poultry flocks.

This session was further enriched by Dr. Shivi Maini's presentation on "Novel Phyto-genics for Sustainable Poultry Production." Dr. Shivi highlighted the various initiatives undertaken by Indian Herbs Specialities aimed at providing innovative, safe, and sustainable solutions to ensure comprehensive health benefits for poultry flocks.

The enthusiastic participation of the Nepal Sales team, led by Mr. Paramartha Roy, National Sales Manager; Mr. Tirthankar Banerjee, Sales Manager (East Zone); Dr. Samrat Shrestha, Regional Manager, Nepal; Dr. Saroj Parajuli; Mr.

Pradip Dhakal; and Mr. Sarthak Bista, exemplified Indian Herbs' commitment to building strong customer relationships and providing unwavering support to the farming community.

The active participation of over 45 top poultry farmers, integrators, feed millers, and patrons underscored the event's significance within the Nepalese poultry industry. The vibrant exchange of ideas, experiences, and best practices fostered a collaborative spirit, nurturing an environment conducive to collective learning and growth.



Caption - Customers At Innovative Summit



Caption - Dr. Dinesh Gautam, Tech. Advisor, Nepal Poultry Federation giving technical presentation



Caption - Dr. Shivi Maini, GM (Tech) welcoming Dr. Dinesh Gautam



Caption - Dr. Umesh Dahal, Dir. Gen. of Livestock Services of Nepal, Chief Guest giving his presentation



Caption - Dr. Shivi Maini, GM (Tech), Indian Herbs, giving technical presentation on phytogetic products



Caption - Mr. Paramartha, National Sales Manager and Dr. Samrat Shreshta, ZM, welcoming Mr. K.P. Lamsal, MD, Simurg International

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## USSEC Trade Team from South Asia and Sub-Saharan Africa Explores U.S. Soybean Industry and Sustainability Practices

- Ricky Thaper (www.rickythaper.com)

In a landmark tour, the U.S. Soybean Export Council (USSEC) Trade Team from South Asia, comprising delegates from India, Nepal, Sri Lanka, Pakistan and Bangladesh, alongside delegates from Nigeria in Sub-Saharan Africa, visited the heart of the U.S. soybean industry.



Their journey, organized by USSEC, spanned for a week and involved insightful discussions with industry leaders, hands-on farm visits in Missouri and Illinois States and participation in the highly anticipated Global U.S. Soy Summit, “Soy Connex” in San Francisco, California.

Highlights of the U.S. Soybean Industry Tour  
Mr. Kevin Roepke, Regional Director for South Asia & Sub-Saharan Africa, USSEC, in the beginning of the tour gave an engaging presentation outlining the team’s schedule.



The program featured visits to soybean farms, grain elevator facilities in St. Louis, Missouri, and Bloomington, Illinois, and an exploration of river lock dam facilities. The visiting Delegation engaged directly with U.S. Soy industry leaders, gaining in-depth knowledge of the nation’s soybean value chain.

The delegation’s visit to the Cargill Grain Elevator Facility in St. Louis offered a unique opportunity to understand the large-scale operations that make U.S. soybeans a dominant force in the global market.



Ms. April Sloan, Plant Manager at Cargill, provided a comprehensive tour, showcasing the latest technological innovations in grain storage and export operations.

Further enhancing the delegation’s understanding of cutting-edge agricultural practices, the team visited the Donald Danforth Plant Science Center in Missouri. Here, more than 400 scientists work towards improving global nutrition through crop innovation. Mr. Mike Manson, Development Officer at the center, led the group through the facility, introducing them to pioneering research aimed at addressing global food security challenges.

In Illinois, the delegation was welcomed by Mr. Jerry Gaffner and Mr. Scott Gaffner, third-

generation farmers at Gaffner Family Farm, where they observed sustainable soybean and corn farming practices.



The Gaffner family's dedication to mechanization and environmental stewardship exemplifies the leading role of U.S. farmers in advancing sustainable agriculture.

The visit to Riddell Farm in Sparland, Illinois, continued the delegation's immersion into advanced farming methods. Mr. Jay Riddell, a fourth-generation farmer, shared the farm's success in utilizing mechanization to boost crop yields while prioritizing sustainability.



This visit was further enriched by the participation of Ms. Eileen Pabst, International Markets Manager at the Illinois Soybean Association, and Mr. Mark Read, Vice Chairman of the Global Soy Excellence Center Steering Committee, who provided valuable insights into global agricultural practices.

Global U.S. Soy Summit "SoyConnex": At the Global U.S. Soy Summit "Soy Connex" in San

Francisco, the U.S. Soybean Export Council (USSEC) hosted over 800 international buyers and sellers from 62 countries. This major event highlighted the strengths of the U.S. soybean industry, with U.S. farmers projected to produce 4.6 billion bushels of soybeans for the 2024/25 crop, marking an 11% increase from the previous year.



A key feature of the summit was the emphasis on sustainability. The Sustainable U.S. Soy (SUSS) label, which promotes products verified by the U.S. Soy Sustainability Assurance Protocol (SSAP), received significant attention. Rosalind Leek, USSEC Executive Director, highlighted the growing demand for the SUSS label, with 25 companies recognized at the event for their commitment to sustainability and adoption of the label. The SUSS label, now featured on over 1,000 products globally, reflects U.S. Soy's commitment to responsible sourcing and environmental stewardship. The summit underscored the importance of collaboration and data-driven insights in advancing sustainable agricultural practices and meeting global nutritional needs.

USSEC Chair Lance Rezac remarked, "It's truly a humbling experience to bring so many key customers from around the world together to meet with U.S. exporters and expand their understanding of the value U.S. Soy offers."



Compared to recent years, the price is right for buyers to benefit from U.S. Soy's many advantages. While soybeans are sold as a commodity oilseed, U.S. Soy is recognized for its premium quality, which enhances operational efficiencies for livestock farms, feed mills, and oil crushers, introduces better flavor profiles in the soy foods sector, and exemplifies on-farm stewardship with the lowest carbon footprint. Events like "Soy Connex" are essential for showcasing these strengths and fostering global collaboration."



Ms. Anja Manuel, Cofounder and Partner of Rice, Hadley, Gates & Manuel LLC, at the Soy Connex Conference, gave us a glimpse of geopolitics around the world. Ms. Manuel said that it will continue to be a wild ride, but she believes our best days are still ahead of us.



A Collaborative Future: Mr. Jim Sutter, CEO of USSEC, expressed the importance of the summit, saying, "Soy Connex" serves as a platform for unveiling new data and fostering collaboration. Our technical experts help global customers understand how U.S. soy, with its superior feed conversion ratios and sustainability credentials, is an essential partner in addressing the world's growing protein needs."



Mr. Kevin Roepke, Regional Director for South Asia & Sub-Saharan Africa, USSEC, said "SoyConnex" is the flagship event for the US Soybean Export Council. Our signature adjunct team tours scatter throughout the United States to showcase the

sustainable soybean crop by highlighting the transportation/logistics capabilities, agronomy innovation and explains the incredible value proposition of US soy.



US Soy has intrinsic characteristics which set it apart from the world like lower moisture and damage and higher digestibility and metabolizable energy. The delegates were able to interact with farmers to learn how this is possible and what make US soy so unique. Together, our industries were able to build stronger relationships; and by collaboration and connection at events like this, we can nourish the world.

Throughout the course of history, we've seen that leaning into trade has been a major impetus to achieving rapid economic growth. Moreover, the US is not only the world's largest exporter of food but also the largest importer. This paradox highlights the need for looking at global markets to increase consumer choice and build more resilient and sustainable food supply chains”



During the event, Mr. Naveen Pasuparth, President of the Karnataka Poultry Breeders and Farmers Association (KPBFA), signed a landmark Memorandum of Understanding (MOU) with USSEC to promote the Soy Excellence Center (SEC) program in Karnataka State. The Soy Excellence Center (SEC) are already offering free online courses in India, including the SEC India Poultry Production and Management course and the Feed Milling Basic Certificate Course.



As the poultry industry increasingly requires skilled experts, this initiative is vital in preparing the next generation to sustain and advance the sector.





Mr. Jaison John, Team Lead - India at USSEC, further elaborated on the vital role U.S. Soy can play in enhancing food security for India's vast population amidst inflationary pressures. "Ensuring nutritional security for India's population of 1.4 billion is a significant challenge, but U.S. Soy can be a vital partner in this effort," he said. "With its high-quality protein and versatile food applications, U.S. Soy can enhance food security, support sustainable agriculture, empower local communities, and foster economic growth."

At the Soy Excellence Center (SEC) Global Advisory Panel meeting, Ms. Tori Sorensen, Chairperson of SEC, welcomed the attendees, which included leadership from USSEC, state soybean associations, and SEC Regional Advisory Council members from across the globe. Mr. Mark Read, Vice Chairman of SEC, updated the panel on ongoing activities, while committee chairs reviewed the budgets allocated to SEC initiatives. The meeting ended with the closing comments from Mr. Jim Sutter, CEO, USSEC.



Dr. Vijay Anand, Center Lead - India, Soy Excellence Center, highlighted the SEC's alignment with India's "Skills India" program. Launched in January 2024, SEC in India has already introduced specialized courses in poultry, feed-milling, and soy foods, marking significant progress in industry skill development. Dr. Vijay emphasized that India's large animal husbandry and soy foods sectors require significant workforce training, and SEC's globally sourced expertise is helping prepare young professionals for the challenges and opportunities in these sectors.

The U.S. tour and Global Soy Summit "Soy Connex" have highlighted the U.S. soybean industry's dedication to sustainability and innovation. The insights and experiences gained are set to greatly impact efforts to promote U.S. soy in South Asia and beyond. The support and hospitality from the U.S. Soybean Export Council has been invaluable, driving advancements in global nutritional security and fostering stronger international collaborations.





Myself as one of the member of the South Asia delegation and the Regional Advisory Council Member of the Soy Excellence Center, this tour has deepened our understanding of

the U.S. soybean industry's commitment to sustainability, innovation, and global nutrition. The experiences and insights gained will have a lasting impact on our efforts to promote U.S. soy in South Asia." My gratitude to Mr. Kevin Roepke, Regional Director for South Asia & Sub-Saharan Africa; Ms. Deeba Giannoulis, Regional Head of U.S. Soy Marketing & Sustainability; Ms. Hibah Ameer, Regional Head of Communications; Mr. Jaison John, Country Lead- India, Mr. Pawan Kumar, Country Lead- Nepal, Mr. SaramPokhari, Country Lead-Pakistan, Mr. Khabibur Rahman, Country Lead- Bangladesh, Dr.KhurrumShahbaz, Regional Special Projects Facilitator, South Asia, Ms. Dhanu and Mr. Tara S Rawat from USSEC India, Ms. Nikita from USSEC Dubai and all other team members of the U.S. Soybean Export Council for their efforts in highlighting the sustainability and global benefits of U.S. soy.

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**DR.MANOJ SHUKLA**, a renowned poultry Veterinarian, with 20 years of enriched field experience, now started Free Lance Poultry Consultancy. In the past 20 years have contributed to the development of the hatcheries in various capacities of leading companies across India - Maharashtra, Gujarat, Madhya Pradesh, Chhattisgarh, Orissa, Bihar, West Bengal, Jharkhand, North-East, Uttar Pradesh and neighbouring country of Nepal.



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\*500gm of HimChol-P can replace 1kg of synthetic choline chloride (60%)

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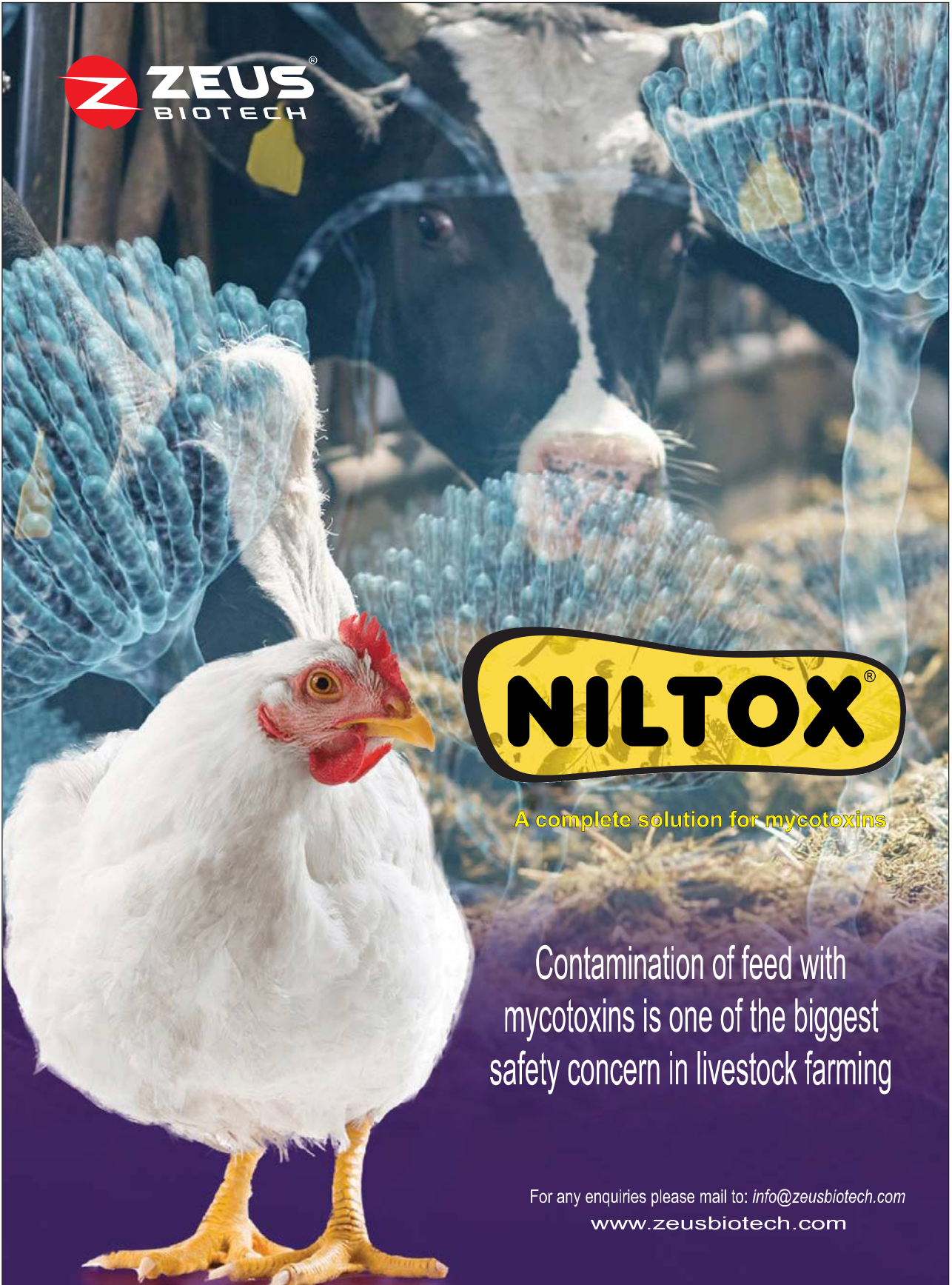
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# LUMIS ENZYMES

## AT SIAVS, AMERICAS



## SS Agrowtech, Namakkal organised a Technical Seminar on Fly Management

SS AGROWTECH Namakkal who had been in the industry since 1992 organized a technical seminar on the problems and solutions of flies in the poultry farm at hotel Nala on 6th August 2024.

About 20 fly related companies from different parts of India took part in the seminar. The farmers who attended the seminar had gained wide knowledge in tackling the menace of flies from the companies who have demonstrated

through their technical know-how. An excellent presentation by Dr Ponnudurai, M.V.Sc., Ph.D, Head of the department of Parasitology in VCRI, Namakkal, has attracted the gathering.

A good junk of farmers attended the seminar from different parts of Tamil Nadu, Kerala, Telangana, Karnataka and Andhra Pradesh. The seminar was ended with a satisfactory note.





## Poultry fortune - Hyderabad organised India International poultry expo on 2-3rd aug 2024 at Auto cluster expo center Chinchwad- Pune

Dr. Dharendra Kumar - from Vesper Group was awarded Best poultry physician award 2024 during this event.

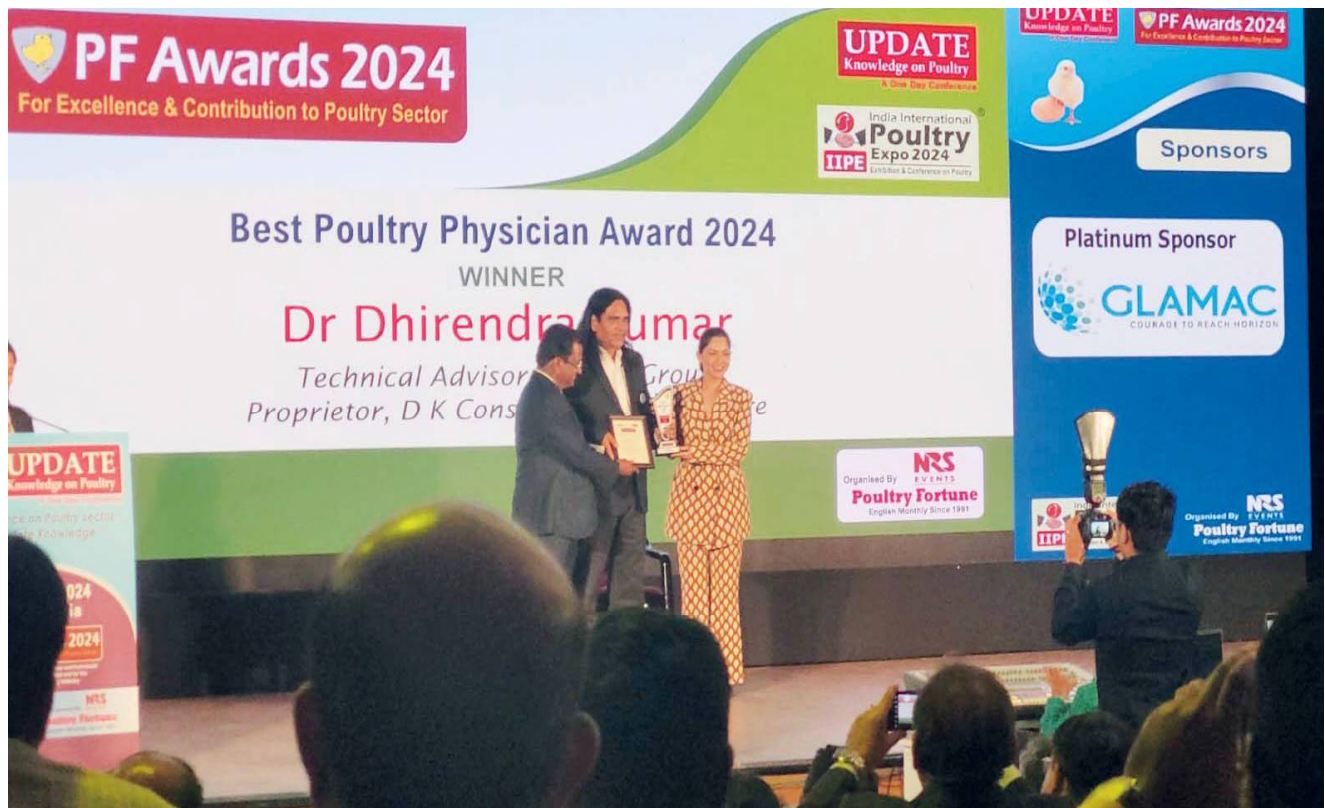
He is servicing poultry industry since 1992 with 32 yrs of experience .

He is providing consultation services through out India and travelled to 37 countries, and also visiting pan India quarterly.

Many first to his name like 1st veterinarian to have limca book of records certificate, 1st in motorsports winner of many trophies, 1st veterinarian to visit everest base camp, done Servo engine oil advt. Many Punjabi song video, bike expedition to high himalaya etc .

At present technical Advisor to vesper group, a 46 yrs old pharmaceuticals company based in south India .

His life motto - dedication and honesty in service to industry with punctuality, as time waits non and it's one life to live.



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Mr. A Mahesh Babu

Achieved 374 HHE in 82 weeks (97% Achievement of STD) with 104 g avg feed intake/day

|                         |   |         |
|-------------------------|---|---------|
| Cum Feed/Egg            | : | 119     |
| Weeks Above 90%         | : | 33      |
| Peak Weekly Production  | : | 95%     |
| Feed Cost/Egg @Rs.26/KG | : | Rs.3.09 |

### Balakrishna P.F, Keesara (V), T.G

Mr. P Vinodh Kumar

Achieved 279 HHE in 64 weeks (99.50% Achievement of STD) with 102 g avg feed intake/day

|                         |   |         |
|-------------------------|---|---------|
| Cum Feed/Egg            | : | 116     |
| Weeks Above 90%         | : | 38      |
| Peak Weekly Production  | : | 95%     |
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|---------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Hyderabad     | 112 | 112 | 107 | 107 | 112 | 114 | 114 | 114 | 114 | 105 | 105 | 105 | 108 | 110 | 110 | 102 | 102 | 105 | 110 | 110 | 112 | 112 | 112 | 112 | 112 | 104 | 104 | 94  | 94  | 94  | 94  |
| Karimnagar    | 112 | 112 | 107 | 107 | 112 | 114 | 114 | 114 | 114 | 105 | 105 | 105 | 108 | 110 | 110 | 102 | 102 | 105 | 110 | 110 | 112 | 112 | 112 | 112 | 112 | 104 | 104 | 94  | 94  | 94  | 94  |
| Warangal      | 112 | 112 | 107 | 107 | 112 | 114 | 114 | 114 | 114 | 105 | 105 | 105 | 108 | 110 | 110 | 102 | 102 | 105 | 110 | 110 | 112 | 112 | 112 | 112 | 112 | 104 | 104 | 94  | 94  | 94  | 94  |
| Mahaboobnagar | 112 | 112 | 107 | 107 | 112 | 114 | 114 | 114 | 114 | 105 | 105 | 105 | 108 | 110 | 110 | 102 | 102 | 105 | 110 | 110 | 112 | 112 | 112 | 112 | 112 | 104 | 104 | 94  | 94  | 94  | 94  |
| Kurnool       | 112 | 112 | 107 | 107 | 112 | 114 | 114 | 114 | 114 | 105 | 105 | 105 | 108 | 110 | 110 | 102 | 102 | 105 | 110 | 110 | 112 | 112 | 112 | 112 | 112 | 104 | 104 | 94  | 94  | 94  | 94  |
| Vizag         | 129 | 129 | 119 | 119 | 124 | 124 | 124 | 114 | 114 | 105 | 105 | 105 | 105 | 107 | 107 | 102 | 102 | 104 | 106 | 106 | 106 | 106 | 106 | 101 | 101 | 93  | 86  | 86  | 86  | 86  |     |
| Godavari      | 123 | 123 | 118 | 118 | 123 | 123 | 123 | 118 | 118 | 113 | 113 | 113 | 113 | 115 | 115 | 110 | 110 | 112 | 115 | 115 | 117 | 117 | 117 | 112 | 112 | 104 | 104 | 97  | 97  | 97  | 97  |
| Vijayawada    | 123 | 123 | 118 | 118 | 123 | 123 | 123 | 118 | 118 | 113 | 113 | 113 | 113 | 115 | 115 | 110 | 110 | 112 | 115 | 115 | 117 | 117 | 117 | 112 | 112 | 104 | 104 | 97  | 97  | 97  | 97  |
| Guntur        | 123 | 123 | 118 | 118 | 123 | 123 | 123 | 118 | 118 | 113 | 113 | 113 | 113 | 115 | 115 | 110 | 110 | 113 | 116 | 116 | 118 | 118 | 118 | 115 | 115 | 107 | 107 | 100 | 100 | 103 | 103 |
| Nammakal      | 133 | 133 | 123 | 123 | 118 | 118 | 118 | 118 | 118 | 118 | 118 | 113 | 113 | 115 | 115 | 115 | 115 | 115 | 115 | 117 | 117 | 117 | 117 | 117 | 117 | 115 | 112 | 104 | 99  | 99  | 87  |

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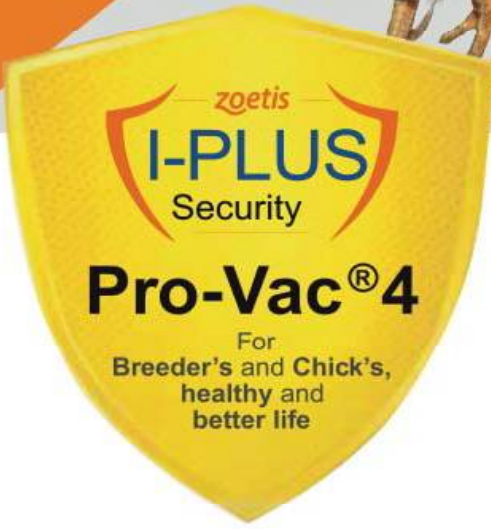
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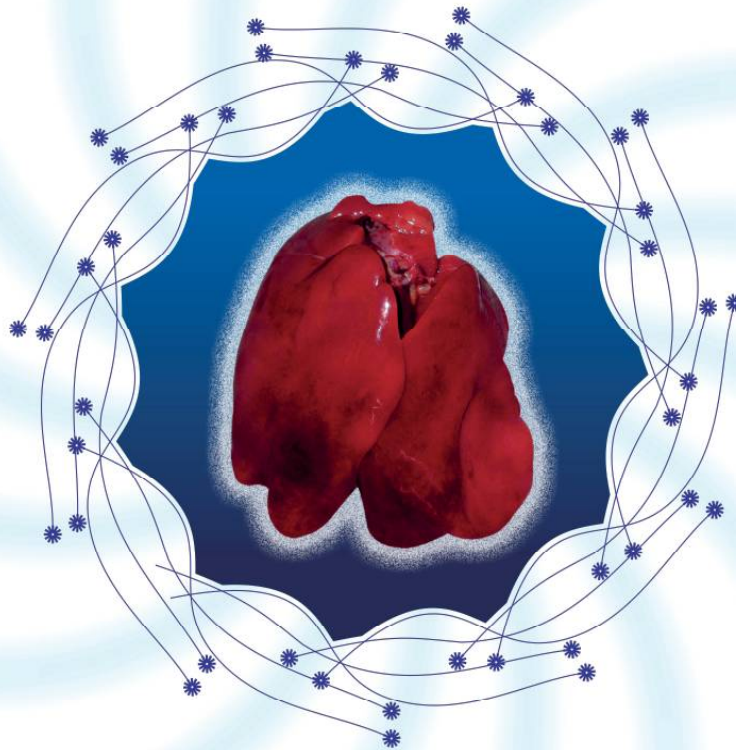
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# MICROBES IN PLASTIC DEGRADATION

R. Savitha<sup>1</sup>, S. Saranya<sup>2</sup>, R. Ranjini<sup>3</sup>, Gondu Sai Deepthi<sup>4</sup>, G. Elaiyaraja<sup>5</sup>

<sup>1,2,3,4</sup> – M.V.Sc Scholar, Department of Veterinary Microbiology, Madras Veterinary College, Chennai – 07.

<sup>5</sup> – Assistant Professor, Department of Veterinary Microbiology, Madras Veterinary College, Chennai – 07.

## Introduction

One of the persistent pollutants left unbothered in environment for centuries is plastics. The plastics are high molecular weight polymers primarily synthesized from hydrocarbon and petroleum derivatives. The accumulation plastics in the environment cause various hazardous problems to Human as well as Animal. Recent studies proved that the microbes are involved in degrading the plastics by various enzymatic mechanisms.

## Why we need to degrade the plastics?

Worldwide annual plastic production scaled up from 2 metric tonnes in the year 1950 to 367 metric tonnes in the year 2020 according to trade association plastics Europe and it can be further spiked in coming decades. The plastic waste causes significant hazardous as follows,

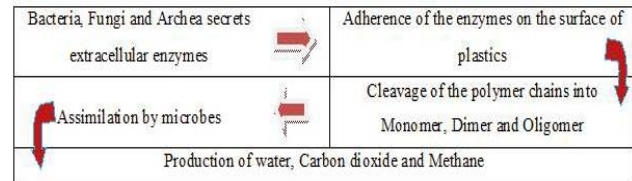
- Non biodegradable plastic waste disposal affects fertility of soil leads to low production.
- Incinerated plastic waste emits greenhouse gases which threatens global warming.
- Moreover, the unnoticed fragmented plastic waste causes serious health issues like cancer growth, respiratory illness and skin allergies.
- Accumulation of plastic in Marine industry causes lethality to marine species.

## Mode of microbial plastic degradation

- The microbes attach to the surface of polymers for carbon source and degrade it.
- Microbe uses its extracellular enzymes to cleave the polymer into low molecular weight products like monomer, dimer and

oligomer.

- These released low molecular weight products are again assimilated by other microbes and release CO<sub>2</sub>, Water and Methane.



## Microbes involved in Plastic degradation

| Name of the Bacteria / Fungi | Enzyme             | Plastic type |
|------------------------------|--------------------|--------------|
| Clostridium botulinum        | Lipase             | PCL          |
| Pseudomonas stutzen          | Serine Hydrolase   | PEA,PBS,PCL  |
| Amycolatopsis sp             | Manganese Peroxide | PLA,PE       |
| Rhodococcus ruber            | Laccase            | PE           |
| Ideonella sakaiensis         | PETase             | PET          |
| Aspergillus flavus           | Glycosidase        | PCL          |
| Aspergillus niger            | Catalase,Protease  | PCL          |
| Rizhopus arrizus             | Lipase             | PEA,PBS,PCL  |
| Fusarium sp                  | Cutinase           | PCL          |

PCL-polycaprolactone, PEA-polyesteracetols, PBS-polybutylene succinate,

PLA-polylactic acid, PE-polyethylene, PET-polyethylene terephthalate

Ways to improve the biodegradation



- ✓ The hydrophilicity of plastics can be increased by physical or chemical process
- ✓ Reduction of molecular weight, rupturing chemical bonds, creating surface cracks and enriching functional groups
- ✓ Thermal pretreatment (pyrolysis).

### Advantages

- ✓ Microbes mediated plastic degradation is a eco-friendly method when compare to other conventional methods
- ✓ Most economical method

### Limitations

- ✓ Slow process and genetically engineered organism may evolve into new strain.

### Conclusion

Plastics are being used widely in our day-

to-day life for packing and caring the items. Because of huge accumulation of plastics wastage every year, cause big threat in the degradation of waste plastics. So, the cheapest, eco-friendly and universally acceptable method of plastic degradation is by using microbes. So, in the coming days, the work should be focused on the genomics and proteomics of various microbes to speed up its plastics degradation process.

### Reference

1. Kour, H., Khan, S. S., Kour, D., Rasool, S., Sharma, Y. P., Rai, P. K., ... & Yadav, A. N. (2023). Microbes mediated plastic degradation: A sustainable approach for environmental sustainability. Journal of Applied Biology and Biotechnology, 11(3), 9-19.
2. Fesseha, H., & Abebe, F. (2019). Degradation of plastic materials using microorganisms: a review. Public Health Open J, 4(2), 57-63.



## OPENING OF GAYATRI AGENCIES

The Gayatri Agencies has opened their poultry medical outlet on 19th August 2024 at L.B.Nagar, Hyderabad.

Mr Shiv Prasad, Proprietor, invited the poultry related people along with the Poultry press.

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## Pressemitteilung

Press release · Communiqué de presse

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Vechta, August 2024

### WELTEC BIOPOWER modernizes 1-megawatt biogas plant in Australia

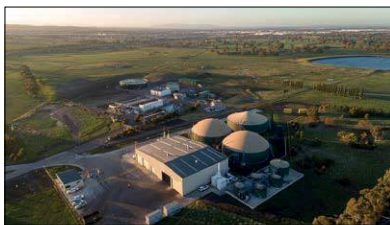
The German plant manufacturer WELTEC BIOPOWER is supporting Yarra Valley Water for the refurbishment of its 1-megawatt biogas plant in the north of Melbourne. Yarra Valley Water, is one of Australia's largest water and wastewater companies. Since the completion of the waste and food waste plant by WELTEC BIOPOWER and its project partner in 2017, Yarra Valley Water's Aurora Treatment Plant has been energy self-sufficient. In order to be able to operate the plant profitably into the future, it has been undergoing a technical modernization including biological service planned for August 2024. The work of the local team is being supported by WELTEC on site.

The output of the plant, which has two 530-kilowatt CHP units, covers the energy requirements of the biogas plant. The electricity generated is able to power both the facility itself and the sewage treatment plant, with excess energy is exported to the electricity grid. The plant has a processing capacity of 33,000 tons of organic waste from food processors and restaurants to generate around 7,500,000 kilowatt hours of energy per year. Accepted waste includes fats, oils, brewery and dairy residues, fruit and vegetables which are fed into the stainless steel containers. The plant has already won prestigious awards for its technology: These include the Premier's Sustainability Award for leading innovation and practice in Victoria and the Banksia Award for Leading in Circular Economy.

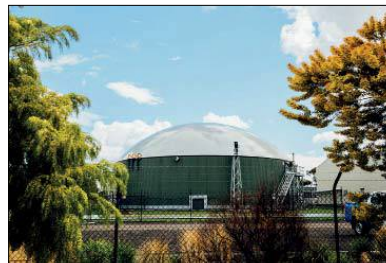
At the start of the maintenance work, the tanks will first be completely emptied. In addition, the roofs of the two 3,573 cubic meter stainless steel fermenters and internal plant components such as the agitator technology will be replaced. The plant will then be commissioned and operational management will be secured. The digester contents will be temporarily stored in the storage tank and material can be filled back into the tanks after the refurbishment so the plant can be up and running quickly. This saves resources and costs. In addition, it is easier to restart the biological process when the fermented material is immediately available. Last but not least, the processes also comply with occupational safety requirements, which are a high priority in Australia – especially when emptying and filling the tanks. WELTEC will also provide on-site staff training.

"WELTEC BIOPOWER has been a valued partner in our successful journey with our Wollert Facility. We value their commitment to safety and quality and have leveraged their expertise in mechanical and biological consulting over the lifespan of our facility," emphasizes Stephanie Salinas, Manager Waste to Energy Services at YVW. "WELTEC can look back on extensive experience with such complex refurbishment projects. We are delighted that we have been able to enjoy the trust of our customers over such a long period of time," says Vladimir Bogatov, Area Sales Manager Asia Pacific at WELTEC BIOPOWER. With more than 400 biogas plants planned and built worldwide and a strong service department, WELTEC has the necessary level of expertise for such modernizations. This experience is also valued Down Under to ensure that the plant operation remains flexible and continues to live up to its reputation as one of Australia's most innovative biogas projects in the future.

#### Pictures



*The German plant manufacturer WELTEC BIOPOWER is supporting Yarra Valley Water for the refurbishment of its 1-megawatt biogas plant in the north of Melbourne.*



*At the start of the maintenance work, the tanks will first be completely emptied. In addition, the roofs of the two 3,573 cubic meter stainless steel fermenters and internal plant components such as the agitator technology will be replaced.*

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## Pressemitteilung

Press release · Communiqué de presse

Organic energy worldwide

### Company Portrait

Since its foundation in 2001, the WELTEC Group from Vechta in Lower Saxony, Germany, has been contributing to the success of the energy transition. The specialist has developed into one of the world's leading providers for the construction and operation of biogas and biomethane plants. The group covers the entire biogas value chain, including the design, planning and setup of energy plants, 24/7 service, sustainable utilization concepts for the output flows and ongoing or temporary plant operation – an area in which it has more than 15 years of experience.

The establishment of individual, technically mature solutions with custom-tailored processes is one of the strengths of WELTEC BIOPOWER. Moreover, the use of stainless-steel technologies ensures flexible substrate input, quick and inexpensive assembly and a consistently high quality standard, regardless of the location. Following the go-live, WELTEC can take care of the mechanical and biological service in order to ensure efficiency of the plants.

The company also boasts a wealth of experience in the field of biogas generation and utilization. In Germany, the annual output of the 11 group-owned plants amounts to about 280 million standard m<sup>3</sup> of raw biogas a year. Part of the renewable raw material is processed into biomethane and distributed to energy suppliers and petrol stations. Additionally, the biogas is used to supply heat to municipalities and businesses – e.g. in the field of horticulture, housing construction and healthcare – at a total of 16 locations within the scope of WELTEC energy contracting.

Apart from the entire biogas value chain, the portfolio also covers agricultural trade including transport, farm services and manure utilization. For WELTEC, proximity to customers and investors is very important. These include businesses from industries such as agriculture, food, waste and wastewater. With its global sales and service network and a team of 170 employees, the company has already installed more than 400 energy plants in 26 countries on five continents.

### If you publish the press release please forward a copy to us:

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### Social Media:

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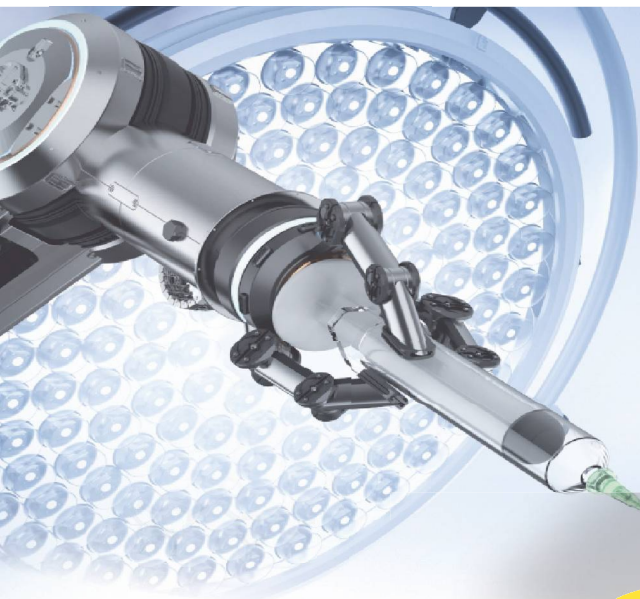
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