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# From the Editor's Desk

## Fortifying Flocks: The Vital Role of Biosecurity in Poultry Production



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In the realm of agriculture, where the well-being of our flocks directly translates into our livelihoods, the importance of biosecurity in poultry production cannot be overstated. As we delve into the complexities of modern farming, we find ourselves confronted with the daunting task of safeguarding our feathered friends against the relentless threat of diseases. Today, we assert that biosecurity is not merely an option but an absolute necessity, a shield that must be constantly fortified to ensure the health and prosperity of our poultry industry.

Poultry biosecurity is not a new concept, but its significance has been magnified in recent years. Disease outbreaks, such as avian influenza and Newcastle disease, have ravaged poultry farms, causing not only economic losses but also raising concerns about food security. In this age of globalization and interconnectedness, pathogens do not recognize borders, making our flocks vulnerable to infections from far and wide.

The components of effective biosecurity are multi-faceted. Restricting access to farms and implementing strict hygiene protocols for personnel is our first line of defense. Isolation and quarantine of new birds are crucial to prevent the introduction of diseases into existing flocks. Regular cleanliness and sanitation practices within poultry houses reduce the risk of disease transmission. It's not just about the birds; it's about the entire environment they inhabit.

Biosecurity measures extend beyond the farm gate. Traffic control, foot baths, hand washing stations, and pest control are integral components of this comprehensive strategy. Vaccination schedules tailored to specific diseases are indispensable tools in our fight against pathogens. Equally essential is continuous training of farm personnel to ensure that biosecurity practices are followed diligently.

Moreover, meticulous record-keeping aids in tracking bird health, vaccination histories, and identifying unusual observations, enabling early disease detection and management. Cautious sourcing of birds and equipment from reputable suppliers further fortifies our defenses.

In an ever-changing world, preparedness is key. An emergency response plan, encompassing protocols for isolating and treating affected birds and establishing communication channels with authorities and neighboring farms, must be in place.

Biosecurity audits offer a critical evaluation of our practices, helping us identify areas for improvement. Monitoring wild birds and other wildlife for potential carriers of disease is a proactive approach that cannot be neglected.

In conclusion, biosecurity is not a mere checklist; it's a commitment to safeguarding the health and productivity of our poultry industry. As responsible stewards of our flocks and our farms, we must recognize that our efforts in implementing stringent biosecurity measures today will determine the resilience of our industry tomorrow. The imperative of poultry biosecurity is not just about protecting birds; it's about securing our future. We cannot afford to take it lightly.

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# Biosecurity and Disease Control

**Parth Rai Gupta**  
Co-Editor

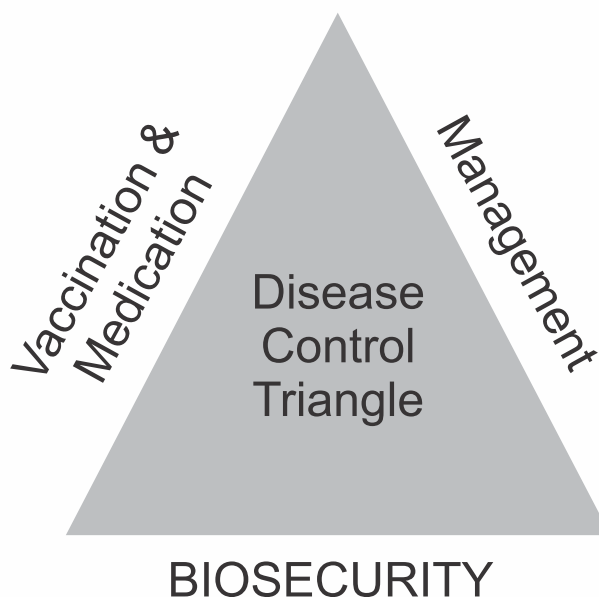
Biosecurity is a crucial program designed to prevent the introduction and spread of pathogens into and between farms, protecting birds from disease-causing organisms. It includes isolation, traffic control, sanitation, vaccination, serological disease monitoring, and air quality monitoring. Biosecurity is the cheapest and most effective means of disease control available, and without it, no disease prevention program will function properly. As poultry operations become more efficient, they become a threat to themselves and their neighbors, as well as the concentration of more birds in limited space. Poultry farmers should take the time to eliminate as many pathogens as possible, and biosecurity is the most effective form of disease protection, particularly for poultry under modern production techniques,

and holds the key to successful and profitable farming.

The disease control triangle consists of three sides: biosecurity, medication/vaccination, and good farm management. Poultry must be raised in an environment where disease and infection are controlled to the point where vaccination and medication are effective. Biosecurity is a critical component of the disease control triangle.

Conceptual biosecurity involves the location of animal facilities and their components, such as building a farm in a remote location, keeping enough space between breeders and grow-out farms, and maintaining adequate space between breeders and grow-out farms.

Structural biosecurity deals with physical factors, such as farm layout, perimeter fencing,





drainage, number/location of changing rooms, presence of showers, air filtration systems, enclosed load-outs, and housing design.

Operational or procedural biosecurity includes day-to-day activities in feed mills, hatcheries, breeding, and grow-out facilities, following flock depletion, proper decontamination and disinfection of equipment, houses, and other areas. Visitors and workers on breeder farms must shower and wear clean farm clothes to avoid cross contamination.

In commercial broiler units, a minimum inter-flock interval of two weeks is recommended.

Pests and rodents can be controlled using biological, chemical, and mechanical methods, and a proper disease diagnosis program and vaccination schedule should be implemented. Regular disease monitoring procedures, such as postmortem examination and periodic serum antibody assays, are used to determine the flock's immune status.

Disease prevention management factors in birds include separation, litter control, high-quality chicks, adequate nutrition, and water quality. Separation is essential for keeping birds of different ages in the same house, while litter control is crucial for preventing disease spread. High-quality chicks should be received from hatcheries that provide adequate preventive care against diseases like mycoplasmosis, salmonellosis, and infectious bursal disease. Adequate nutrition, including coccidiostats and vitamin and mineral supplements, is essential for

maintaining bird health and immune status.

Water quality is another crucial factor in disease prevention. Poultry farmers often fail to provide clean water to their birds, leading to microbial contamination at the source, transportation, storage, and overhead tanks. Unsanitary farming practices contribute to disease spread, and water contamination from feces increases the presence of coliform organisms. Soil conditions also affect mineral levels in water, causing hardness and impacting taste and palatability.

Providing sanitized water to birds reduces the risk of water-borne infections, reduces medication costs, extends the life of pipelines and storage tanks, and improves overall bird growth and egg production efficiency.

The scientific disposal of dead birds is crucial for the prevention and control of diseases on poultry farms. Mortality is unavoidable, and removing sick birds from the flock is essential to prevent the spread of infectious material into the environment. Disposing carcasses in a nearby manure pile or open field is risky and unscientific due to the potential for street dogs and cats to eat the infected carcasses, which can transport contaminated material to neighboring farms.

Vultures and other wild birds can also infest the carcasses, becoming potential carriers of disease-causing agents. Disease agents carried by rainwater can contaminate other sources of water, and the farm's

surroundings may be contaminated with feathers and bones, causing soil pollution. When the carcasses decompose, they may emit a foul odor and pollute the air.

Various methods for disposing carcasses include burying, pit disposal, incineration, septic tank disposal, and composting. It is important to remove dead birds from the flock as soon as possible, avoid leaving them near a running stream, prevent the spread of infectious material during transportation, and implement sound bio-security measures at disposal sites.

The poultry industry must pursue environmental protection efforts, and all methods that allow for environmentally safe and scientifically sound carcass disposal should be considered. Elimination of litter and caged layer droppings should be done promptly, and composting is preferable as it kills pathogens. Disinfection is the process of destroying pathogenic microorganisms and can be applied to inanimate objects or used as a footbath.

Control of rodents is essential, as they play a significant role in the transmission of disease-causing microorganisms, tape worms, and other parasites. Control measures for insects include avoiding water stagnation, providing proper drainage facilities, and using insecticide sprays or dusting. To avoid watery droppings, treat birds and inspect feed and water quality, and maintain a clean environment by covering the area with treated soil devoid of vegetation or growing grass lawns.



# Importance of Biosecurity in Poultry Production



**Jai Prakash<sup>1</sup>, B.L. Saini<sup>2</sup>**

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## Introduction

Poultry sector provides livelihood to millions of farmers in developing countries. The recent years have witnessed a huge demand for poultry products (meat and egg) and this has resulted in a production boom in this sector. On the basis of flock size, poultry holders are classified as small-scale poultry holders (300 - 3000 birds), medium-scale poultry holders (10000 – 50000 birds) and large-scale poultry holders (50000–400000 birds). Small poultry holders are those farmers with a flock size ranging from a very few hundreds to few thousands in clusters. They usually practice extensive, semi-intensive, and intensive types of poultry rearing. The large-scale poultry production has evolved to maximize the production through development of better strains of birds (broilers attaining the slaughter weight by 35-42 days and layers with longer egg laying period).

Biosecurity is an integrated approach encompassing policy and regulatory frameworks to analyse and manage risks in the areas of animal health and food safety, including associated environmental risk. An integrated biosecurity programme is an application on logical and sound principles specific to an enterprise, monitoring of disease status, evaluation of ongoing poultry farm operations on continuous basis with an objective to contain the diseases at bare minimum level.

## Biosecurity in a broader sense possess –

- Isolation
- Traffic control around the farm
- Sanitation
- Vaccination
- Serological monitoring of diseases
- Air quality



**Biosecurity, medication/ vaccination, and good management of farm are three sides of disease control triangle –**



## TYPES OF BIOSECURITY:

### 1. Conceptual biosecurity

- It is best to build farm in an isolated area, at least 3 km away from nearest poultry in the case of breeder farm and 1.6 km in the case of commercial layer and broiler farm.



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- In the case of breeders, the farm should be away from the major roadways that may be used to transport commercial and backyard poultry.
- Maintain enough distance between breeders and grow-out farms and facilities such as hatcheries and feed mills.

## 2. Structural biosecurity

- Fencing of farm perimeter to prevent unwanted visitors.
- Test water source for minerals, bacteria, chemical contamination, and pathogen load.
- Concrete stage with suitable water and power supply for sanitation of vehicles.
- Suitable location for storage of bagged feed.
- All-weather roads within the farm to ease cleaning and to prevent spreading of microbes by vehicles and footwear.
- Feed, litter and equipment should be stored in a section separated from live bird area to prevent contamination.
- Safe housing, with suitable wild birds and rodent proofing.

## 3. Operational biosecurity

- Operation manuals should be developed for day-to-day activities carried out in feed mills, hatcheries, breeding, and grow-out facilities incorporating emergency plans.
- Proper decontamination and disinfection of equipment, houses etc., following depletion of flock.
- In breeder farms, all visitors and workers require to shower and use clean farm clothes to prevent cross contamination between them.

## Managemental factors in disease prevention

The following managemental factors help to reduce the spread of disease and stress to the birds.

### Isolation -

- It is not advisable to rear birds of different age groups in the same house. Wherever possible, it is advisable to practice the all-in-all-out system.
- Proper layout of houses, appropriate designing to prevent any entry of rodents, proper ventilation, and the designing of feeders and drinkers to avoid spillage, are basic essentials in disease prevention.

### Litter management -

- Wet litter is a potential source of disease transmission. Maintain proper litter conditions as suggested earlier.

### Quality chicks

- Ensure that the received chicks are healthy and are within the normal weight range.
- Check for a history of vaccination against Marek's disease. Look for signs of dehydration.

### Proper nutrition

- A good balanced feed prepared according to nutrient requirements at different ages will ensure proper health and good immune status in birds.
- Addition of coccidiostats, and vitamin and mineral supplements are essential.

### Disposal of poultry farm manure

After the pen is emptied, deep litter and caged layer droppings should be removed to a field far from the poultry shed and spread to dry in the sun.

### Disinfection

- Disinfection is the process or act of destroying pathogenic microorganisms.

- A disinfectant is an agent that destroys pathogenic organisms, and that can be applied on inanimate objects or used as a footbath.
- Phenol, cresol, chlorine compounds and iodophors can be used for disinfecting surfaces as well as the egg room, feeders, drinkers, buildings and footwear; liquid formalin at 5 percent level, or formaldehyde gas by fumigation, will also serve as an effective disinfectant.
- Sun-drying may be practiced for washed equipment; for cement surfaces-dry heat in the form of flame is recommended.
- Copper sulphate as a 0.5 percent solution is effective against fungi.
- Quarternary ammonium compounds are good disinfectants when used according to directions. However, they are not effective in hard water.

## Conclusion

The implementation of biosecurity measures and good management practices ensure the flock health and safer poultry production. As introduction of pathogenic organism causes serious economic loss to the poultry producers and farmers, securing the poultry flocks and farms from harmful pathogenic agents(microorganism) plays a vital role in poultry production. Good biosecurity has been shown to reduce disease costs and increase profits and is essential for the poultry livestock industry to thrive. If a programme provides all these aspects maximum input can be achieved which will result in maximum return. Thus, the practice of biosecurity measures is a beneficial approach for the successful management of poultry industry.



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# Biosecurity in Poultry Production: Key Strategies for Disease Prevention

Siddhi Gupta  
Co-Editor

Biosecurity in poultry production is a set of practices and measures designed to prevent the introduction and spread of diseases within and between poultry flocks. Maintaining strong biosecurity is crucial for the health and well-being of poultry, as well as for the economic viability of poultry farms. Disease outbreaks in poultry can lead to significant losses in terms of bird mortality, reduced egg production, and the need for costly disease treatments.

## Some key components of biosecurity in poultry production include:

**Restricted Access:** Limit and control access to the poultry farm. Only authorized personnel should be allowed to enter the farm, and they should follow strict hygiene protocols, including changing into farm-specific clothing and footwear.

**Isolation and Quarantine:** Isolate newly acquired birds from the existing flock for a quarantine period to monitor their health. This prevents the introduction of diseases from new birds.

**Cleanliness and Sanitation:** Maintain a clean environment within the poultry house. Regularly clean and disinfect equipment, feeders, waterers, and the poultry house itself to reduce the risk of disease transmission.

**Traffic Control:** Control the movement of vehicles and equipment onto the farm to prevent the spread of diseases via contaminated equipment or vehicles.

**Foot Baths and Handwashing:** Set up foot baths with disinfectants at entry points to prevent the spread of diseases on footwear. Provide handwashing facilities and ensure that farm workers wash their hands thoroughly before and after handling birds.

**Rodent and Pest Control:** Implement measures to control rodents and pests that can carry diseases and contaminate feed and water sources.

**Vaccination:** Follow a proper vaccination schedule to protect poultry from specific diseases. Consult with a veterinarian to determine the most appropriate vaccination program for your flock.

**Biosecurity Training:** Ensure that all farm personnel are educated and trained in biosecurity practices. This includes recognizing the signs of disease and knowing how to respond to a potential outbreak.

**Record Keeping:** Maintain accurate records of bird health, vaccination schedules, and any unusual observations. These records can be valuable for disease tracking and management.

**Sourcing Birds and Equipment:** Be cautious when sourcing new birds or equipment. Choose reputable suppliers and ensure that birds are healthy and disease-free.

**Emergency Response Plan:** Develop a comprehensive emergency response plan in case of a disease outbreak. This should

include steps for isolating and treating affected birds, as well as communication protocols with authorities and neighboring farms.

**Biosecurity Audits:** Regularly conduct biosecurity audits to assess the effectiveness of your biosecurity program and make necessary improvements.

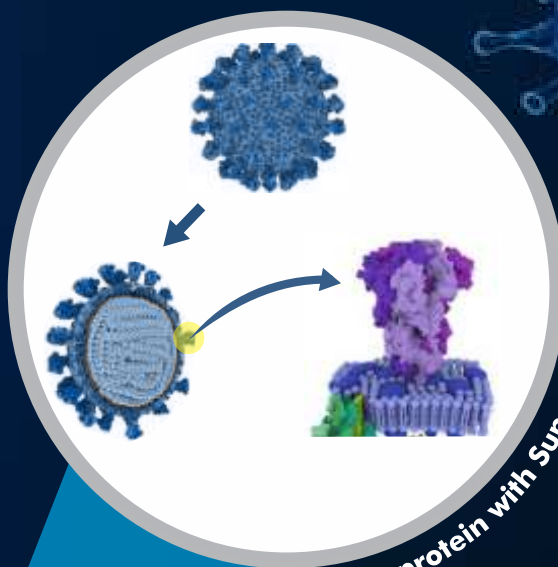
**Monitor Wild Birds and Other Wildlife:** Be aware of the presence of wild birds and other wildlife that can carry diseases. Implement measures to deter them from coming into contact with your poultry.

**Biosecurity Zones:** Consider dividing your farm into biosecurity zones, with varying levels of access and protection. This helps to limit the spread of diseases within the farm.

**Biosecurity Continuity Plan:** Plan for biosecurity continuity in the face of disease outbreaks, which may involve depopulating infected flocks, cleaning and disinfection procedures, and restocking with disease-free birds.

Effective biosecurity practices are essential for preventing disease outbreaks in poultry production and maintaining the health and productivity of your flock. It's important to adapt biosecurity measures to your specific farm and consult with veterinarians and poultry experts for guidance on implementing the most appropriate strategies.





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# पशु विकृति विज्ञान विभाग पशुचिकित्सा व पशुपालन महाविद्यालय अंजोरा, दुर्ग (छ.ग.)

## मुर्गी एवं मुर्गी के चूजों में ई.कोलाई से होने वाली बीमारी जर्दी का सड़ना (Yolk sac infection)

डॉ. अरमान अहमद, डॉ. डी. के जोल्हे  
डॉ. आर.सी. घोश, डॉ. आर.एफ. कुजूर  
डॉ.पी. सिंह, डॉ. पीयूश कुमार  
डॉ. भलोक साहू, डॉ. गरिमा  
डॉ. काशटे एम.

कोलीबेसीलोसिस रोगजनक विकृति ई. कोलाई जीवाणु से होने वाला रोग है। यह जीवाणु अमुमन श्वसन तंत्र और आन्तों की बीमारी करता है। यह जीवाणु रक्त में खास तरह के रसायन छोड़ते हैं, जिससे घातक सेप्टीसीमिया होता है। यह बाकी के अंगों को भी नुकसान पहुंचाते हैं, जैसे यकृत का सड़ना एवं उसके उपरी आवरण पर फाइब्रिन का जमाव (फाइब्रिनस पेरीहिपेटाइटिस) एवं हृदय को भी घात पहुंचाते हैं (फाइब्रिनस पेरीकार्डिटिस)। नये पैदा हुए मुर्गी के चूजों में काफी भयावह स्थिति बनी रहती है जिसमें बहुत तेजी से चूजे मरने लगते हैं। यह संक्रमण पूरी दुनिया में सबसे ज्यादा होने वाली बीमारी है जो कि आर्थिक रूप से क्षति पहुंचाती है।

**रोग का कारक** – यह संक्रमण रोगजनक विकृति इश्चिरिचिया कोलाई (ई. कोलाई) जीवाणु द्वारा होता है। यह

आमतौर पर मुर्गी की आंतों में पाया जाता है, अधिकतर यह कोई बीमारी पैदा नहीं करते, परंतु यह बात ध्यान देने योग्य है की आंतों में मिलने वाले ई.कोलाई में 15% ऐसे होते हैं जो अनुकूल परिस्थिति में बीमारी करते हैं।

**संक्रमण फैलने के तरीके** – यह जीवाणु आमतौर पर वातावरण में मिलते हैं। और पानी, मिट्टी, दाना को दूषित करते हैं।

1. मल संदूषण द्वारा – यह रोगाणु मुर्गी पालन इकाई में बहुत संख्या में मल संदूषण द्वारा फैलते हैं।
2. अण्डे के संक्रमण से – यह जीवाणु मुर्गी के पेट में मौजूद अण्डों को भी संक्रमित कर देते हैं जिससे चूजों में पैदा होने से पहले ही संक्रमण हो जाता है।
3. श्वसन के द्वारा



यकृत में सूजन और पीली  
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- त्वचा में लगी चोटों के द्वारा
- मलप्रवाह पद्धति से, क्षतिग्रस्त आंतों के श्लेश्माश्लिली के द्वारा जीवाणु अन्दर प्रवेश करती है।

यह रोग दो-रूपों में मिलता है :-

### 1. दैहिक रूप (Systemic form)

(अ) कोलीसेप्टीसीमिया – इसमें जीवाणु रक्तप्रवाह में मौजूद होते हैं। और पूरे शरीर में फैलकर, श्वासनली में सूजन (Airsacculitis) करते हैं, जिसके वजह से हाँफना, छीकना एवं खांसना जैसे लक्षण प्रदर्शित करते हैं। हृदय में सूजन एवं फाइब्रिन का जमाव (पीली-श्लेश्म आवरण), यकृत में सूजन एवं सड़ना, फाइब्रिन का जमाव (पेरीहेपेटाइटिस) आदि।

### 2. स्थानीय रूप (Localized form)

#### (अ) अण्डपीतकोश संक्रमण

(ओम्फेलाइटिस) – यह हैचरी में साफ-सफाई की बहुत खराब स्थिति से होता है। इसके वजह से चूजों में प्रारंभिक मृत्यु होती है। इससे प्रभावित चूजों के पेट में सूजन, उदासी एवं एक जगह पर जमा होना जैसे लक्षण दिखते हैं। इनके शवपरीक्षा (पोस्ट-मार्टम) करने पर सड़े बदनूदार अण्डपीत कोश दिखाई देते हैं।



**रोग के लक्षण** – इस संक्रमण में श्वासनली के संक्रमण की वजह से हाँफना, छीकना, खाँसना दाना-पानी छोड़ना गर्दन झुका कर खड़े होना, मुर्गी के सिर में सूजन, चूजों का एक जगह पर जमा होना, पेट में सूजन, उदासी, चूजों के भारी मात्रा में प्रारंभिक मृत्यु होना इत्यादि लक्षण दिखाई देते हैं।

### मृत मुर्गी एवं चूजों के भाव परीक्षण में पाए जाने वाले लक्षण :-

1. श्वासनली में सूजन, वायुकोश में सूजन (पतेंबबनसपजपे)
2. हृदय के ऊपर पीली-श्लिली का जमाव एवं सूजन (फाइब्रिनस पेरीकार्डिटिस)
3. यकृत का सड़ना, उसके ऊपर भी पीली या सफेद श्लिली जैसी फाइब्रिन का जमाव एवं सूजन (पेरीहेपेटाइटिस)
4. चूजों में अनवशोशित अण्डपीत जिससे बदनू आती है।
5. शव शुष्क हो जाता है।

**रोग की पहचान** – ऊपर बताए गये लक्षणों एवं शव परीक्षण में पाए जाने वाले लक्षण द्वारा इसका पहचान किया जा सकता है। यदि प्रयोगशाला में इसका निदान करते हैं तो यह ई.कोलाई संक्रमित ऊतकों से अलग (आइसोलेट) करके उसका कल्चर बनाया जा सकता है। जो मैकांकी अगार में गुलाबी रंग देती है। एवं म्पण्डण में मैटलीक शीन बनाती है।



हल्का ठण्डा पानी दे, यदि टंकी को बार-बार साफ करने में परेशानी हो तो वाटर सैनिटाइजर (Sukrena-ws) का उपयोग करें (10 बुंद 10 लीटर पानी में) समय-समय पर भूसे के ढेर को बदलते रहें एवं उसके साथ चूना मिलाकर बिछायें। फार्म में आने-जाने वाले बाहरी व्यक्तियों पर प्रतिबंध लगायें, एवं दरवाजे पर पोटोस (KMnO4) का घोल रखें।

अण्डे को संक्रमण से बचाने के लिये अण्डे का एकत्रण 3-4 बार करें, अण्डा देने वाले घोंसले (नेस्ट) को साफ रखें, टूटे-फुटे अण्डों को फेंक दे अण्डों को अच्छे से कीटाणुनाशक से साफ करें।

गर्मी के दिनों में कूलर का उपयोग करें एवं फार्म को ठण्डा एवं हवादार रखें।

प्रथम 2-3 दिन चूजों को पेपर पर बिछा कर दाना दें एवं पहले दिन गुड़ एवं नमक पानी दें। शुरू के 3-7 दिनों तक सुबह के समय प्रोबायोटिक का मिश्रण दे उदाहरण

– Aspergillus, Saccharomyces, Lactobacillus आदि या फिर 1 लीटर पानी में 100-150ml छाछ या 50gm दही मिलकार दें।

**रोग के उपचार** – यदि चूजों या मुर्गीयों में उपर बतायें गये लक्षण मिलते हैं एवं मृत्यु होती है तो अपने पास के पशुचिकित्सालय या पशुचिकित्सक से संपर्क करें और उनसे सलाह लें।

निम्नलिखित एंटीबायोटिक का इस्तेमाल किया जा सकता है-सिप्रोफ्लॉक्सासिन, लिवोफ्लॉक्सासिन, क्लोरम्फेनिकोल एवं जेंटामाइसिन आदि अच्छी कारगर एंटीबायोटिक है।

### ई.कोलाई से होने वाले रोग से बचाव के तरीके –

बीमारी के उपचार से अधिक बचाव ही सरल और सस्ता तरीका है। सबसे सरल एवं सबसे अच्छा तरीका है स्वच्छता एवं स्वास्थ्यकर व्यवस्था का अभ्यास करना। जहाँ तक हो सके पीने का साफ एवं



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Typhimurium Gallinarum Choleraesuis, Derby, Dublin, Enteritidis, Pullorum

**E. Coli**  
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**Clostridium Perfringens**  
Type A, C, B, D, E

**Staphylococcus Aureus**

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# EW Nutrition Welcomes Jan Vanbrabant as New CEO

## **VISBEK (Germany), 1**

**September 2023** — EW

Nutrition, a leading global provider of functional animal nutrition solutions, welcomes Jan Vanbrabant as its new Chief Executive Officer.

Jan has a PhD degree in microbiology and is an experienced manager in animal health and nutrition, having held leadership roles at DSM, Erber Group, Biomin and Kemin.

"We are very pleased that we have found a strong

management lead in Jan, who embodies the philosophy of EW Nutrition", says Jan Wesjohann, Managing Director of parent company EW Group. "EW Nutrition is an innovation-driven company, with intensive investment in R&D. Together with Jan we are looking to enter the next growth phase of EW Nutrition."

"I am very excited to be joining the EW Nutrition team," said Jan Vanbrabant. "EW Nutrition's long-term focus has created an

extremely competitive portfolio. EW Nutrition is uniquely positioned to support its customers in mastering the challenges of the changing animal health and nutrition environment."

Former CEO Michael Gerrits is heading into retirement after six years leading EW Nutrition. "I want to thank Michael Gerrits for his essential stewardship in bringing the company to the next level," said Jan Wesjohann.

### **About EW Nutrition**

*EW Nutrition is a global animal nutrition company that offers integrators, feed companies, and veterinarians comprehensive solutions for animal gut health and performance, feed quality, digestibility, and more. It is focused on promoting sustainable growth through reduced FCR, natural support against challenges, reduced need for antibiotics, and planet-friendly protein production.*

Contact:

*Ilinca Anghelescu, [marketing@ew-nutrition.com](mailto:marketing@ew-nutrition.com)*



# ACTION ON THE GROUND IS THE NEED OF THE HOUR

What the food production industry needs is some real work on the ground that makes a difference or it can potentially lose the multiple benefits of modern medicine like antibiotics due to antibiotic resistance.

Studies have indicated that millions have lost lives due to illnesses in which bacterial anti-microbial resistance played a role. In fact, nearly 60,000 newborns in India lose their lives annually due to antibiotic-resistant neonatal infections.

## ***Is antibiotics the answer to offering safe & wholesome food to consumers?***

The rampant misuse for commercial gains has led to the emergence of antibiotic-resistant bacteria. Antibiotic usage is primarily used to control and manage the outbreak of E. Coli and Salmonella which can cause significant disruption to profitability and productivity.

The silver lining on the horizon for the industry and consumer today is the humble but potent bacteriophage. These are natural and sustainable solutions to successfully manage and prevent outbreaks of bacterial infections. Bacteriophages allow farmers and businesses to considerably reduce the need for antibiotics, adhere more easily to improve food safety norms, and enhance productivity by improving overall health of the flock and lowering maintenance costs.

\*When administered as per recommended dosage, results can vary from farm to farm.



Proteon Pharmaceuticals is a leader in bacteriophage technology for livestock farming and aquaculture. Harnessing the power of bacteriophages, farmers, and businesses can considerably reduce the need for antibiotics while easily adhering to food safety norms or other regulations.

Our leading products to prevent and manage *E. Coli* and *Salmonella* infection in poultry are BAFACOL and BAFASAL+G. They destroy bacteria effectively and without side effects or impact on the bird's body and do not affect the beneficial gut microflora balance. The result is increased **food safety** and **farm productivity\*** across parameters such as **FCR**, **mortality rate**, or **weight gain**.

## Our Products







## Successful Conclusion of Inaugural Session I for 64<sup>th</sup> National Symposium 2023

### Livestock Sector: Looking Beyond the Present

*New Delhi, 18 August, 2023*– The inaugural session I of the CLFMA of India symposium concluded on a high note on Friday, August 18, 2023. The event, held at Hotel Le Meridien in New Delhi, witnessed the participation of esteemed dignitaries and industry leaders, who shared valuable insights on the future of the animal husbandry, dairying and fisheries, sectors in the country.

The session began with an auspicious lighting of the lamp by esteemed guests, including Guest of Honour Shri. Parshottam Rupala, Hon'ble Minister of Fisheries, Animal Husbandry & Dairying, Government of India, and CLFMA Chairman Mr. Suresh Deora along with Mr. Divya Kumar Gulati,

Convenor, CLFMA, Hon. Secretary Mr. Abhay Shah. The chairman felicitated Shri. Parshottam Rupala with a bouquet, shawl, and memento to mark the occasion.

Mr. Divya Kumar Gulati, the convenor of the event, delivered a warm and welcoming address, setting the tone for an engaging and informative session. This was followed by a thought-provoking address by Mr. Suresh Deora, Chairman of the CLFMA of India, who highlighted the industry's potential and challenges.

The highlight of the event was the prestigious CLFMA Lifetime Achievement Award. It recognized two exemplary individuals for their significant contributions to the

livestock industry. The award was announced and presented recognizing their achievements and dedication to the sector. Shri. Nadir B. Godrej, Past Chairman, CLFMA OF INDIA and Chairman & MD of Godrej Industries Ltd. and Shri. Tarun Shridhar, IAS (Retd.) were honoured with the CLFMA Lifetime Achievement Award. The awards were presented by Shri. Parshottam Rupala.

Shri. Nadir B. Godrej thanked CLFMA for the award with full heart and spoke about his journey in the animal feeding business. The glimpses he shared were not only fascinating but inspiring too. Shri. Tarun Shridhar, IAS (Retd.) humbly thanked for the honour and nostalgically remembered how the



sector has given him the vast knowledge, experience, insights and friends he adores today.

The much-awaited Livestock Survey Report (Volume - II) was also launched at the event. Hon'ble minister

Shri.ParshottamRupala,Chairman Mr. Suresh Deora, Mr. Nadir B. Godrej, Shri. Tarun Shridhar, Mr. Divya Kumar Gulati and honorary Secretary Mr. Abhay Shah, were present on the dais to unveil the report. The report provides valuable insights into the current state of the livestock sector and outlining future opportunities and challenges. The report is expected to serve as a guiding resource for industry stakeholders, policymakers, and researchers.

Hon'ble Minister of Fisheries, Animal Husbandry & Dairying,

Government of India, Shri. Parshottam Rupala, delivered an address at the event. As they say storytelling is the best way to communicate life experiences, our guest of honour shared his life insights with stories of inspiration and success.

He shared valuable insights into government policies and initiatives aimed at promoting the growth and development of the livestock sector. He also highlighted the government's commitment to the development and growth of the fisheries, animal husbandry, and dairying sectors in the country.

Hon'ble minister emphasised that the "Livestock holds an ancient tradition that connects us to our roots. Before we became an agricultural nation, we were herders, showing the deep-rooted

connection we have with animals. Animals once relied solely on nature for their sustenance, grazing from morning till afternoon, trusting in their fate. But with amendments in animal feeding practices, we have become the top milk producer in the world contributing 24% of global milk production, emphasizing the importance of conscientious farming."

Although he raised concerns that "Livestock farmers are currently facing challenges with fodder availability.. This affects health of animals which directly impacts the income of cattle herders. So the industry needs to address this issue on a large scale along with the need for proper care and attention of livestock." He added "The government's efforts to merge technology with livestock are



commendable. The introduction of vaccination and mobile veterinary units revolutionized the care of livestock."

Shri Rupala is very hopeful for the fisheries sector as well. In his speech he brought everyone's attention to inspiring numbers. "India has tremendous potential to lead the world in the fisheries sector. From a mere Rs 3680 crore expenditure from independence till 2014, to a 20,000 crore Pradhan Mantri Matsya Sampada Yojana today, the transformation in fisheries sector is astounding. With the volume of aquaculture soaring

from 30,000 crore in 2014 to 63,000 crore today, the potential to lead the world in this sector is within our grasp. Together, let us unlock the immense potential within our communities, industries, and government to become global leaders in fisheries."

The session concluded with a vote of thanks delivered by Mr. Abhay Shah, honorary Secretary of the CLFMA of India, expressing gratitude to all the distinguished guests, esteemed speakers, delegates and participants for their valuable contributions and making the inaugural session a resounding

success. This was followed by a networking lunch.

The CLFMA of India conference had set a strong foundation for the subsequent sessions, and discussions that would take place over the following days. With the enthusiastic participation of industry experts, policymakers, and stakeholders, the symposium aimed to explore strategies and solutions for the sustainable growth of the fisheries, animal husbandry, and dairying sectors, contributing to the overall development of the country.



### About CLFMA of India :

CLFMA, also known as The Compound Feed Manufacturers Association, was established in June 1967. Over the years, it has gained recognition and support from various stakeholders including the Central and State Governments, livestock farmers, and related organizations. With a membership of 250+, CLFMA represents all sectors of the livestock industry. This includes entities involved in feed manufacturing, poultry, dairy, aquaculture business, animal nutrition and health, veterinary services, machinery and equipment, as well as processing, distribution, and retailing of meat and ancillary services such as banking.

In addition to its domestic recognition, CLFMA is also acknowledged by international sectors. It is highly regarded by government departments, agricultural universities, veterinary colleges, and national research institutes within India. Furthermore, CLFMA is respected by related industries outside the country.

***For more information, please visit [www.clfma.org](http://www.clfma.org).***



# VetDose

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**VetDose Classic**  
Mixed Dose Full Metal Body (FMB)

- Durability
- Reliability
- Comfort

All spare parts easily available



## Successful Conclusion of Inaugural Session II for 64<sup>th</sup> National Symposium 2023

### Livestock Sector: Looking Beyond the Present

New Delhi, 18 August, 2023 – The CLFMA of India (Compound Livestock Feed Manufacturers Association) concluded its highly anticipated Inaugural Session - II event, marking a significant milestone in the organization's journey on Day 1 of 64th National Symposium 2023. The event was held at Hotel Le Meridien in New Delhi. The event witnessed the presence of esteemed dignitaries from the government, industry leaders, and key stakeholders. The event centred on the theme "Livestock Sector: Looking Beyond the Present" and aimed to bring together industry leaders, policymakers, and experts to discuss the future of the livestock sector in

India.

The event commenced with the lighting of the lamp ceremony, where all the dignitaries were invited to the dais. Dr. O. P. Chaudhary, Joint Secretary (NLM/PC), Department of Animal Husbandry & Dairying, Ministry of Fisheries, Animal Husbandry and Dairying, Government of India graced the occasion as the Guest of Honour. Shri. Nadir B Godrej, Past Chairman of CLFMA of India and Chairman & MD of Godrej Industries Ltd; Shri Tarun Shridhar, IAS (Retd.); CLFMA Chairman Mr. Suresh Deora; Deputy Chairman Mr. Sumit Sureka; Convenor Mr. Divya Kumar Gulati and Hon. Secretary Mr. Abhay Shah were present on the dais with the

guest of honour.

Dr. O. P. Chaudhary was felicitated by Mr. Suresh Deora with a bouquet, shawl, and memento to mark the occasion. Mr. Sumit Sureka, Deputy Chairman, CLFMA felicitated Shri. Nadir B Godrej and Shri Tarun Sridhar was felicitated by Mr. Divya Kumar Gulati.

Mr. Divya Kumar Gulati, Deputy Chairman of CLFMA of India, delivered the welcome address, highlighting the importance of the event and expressing gratitude to all participants. Following the welcome address, Mr. Suresh Deora, Chairman of CLFMA of India, addressed the audience.

A key highlight of the event was the





CLFMA Audio Visual Presentation which showcased the achievements and initiatives undertaken by CLFMA of India in the past year. The presentation highlighted the organization's efforts in promoting animal health, welfare, and sustainable practices in the livestock sector.

Mr. Nadir B. Godrej, Past Chairman of CLFMA of India; Chairman & MD of Godrej Industries Ltd., and CLFMA Lifetime achievement awardee delivered the keynote address. For a change this time the keynote address was in the form of a long poem. The poem showcased the glimpses of his journey, discussing serious issues of agriculture, livestock, dairy, poultry, animal feed and fodder, alternate feed, rising prices, challenges faced, factors like environment, economics, carbon footprints, efficiency improvement and our future.

His poetic keynote address gave us a lesson that in the tapestry of agriculture and livestock, we must

weave the threads of innovation and sustainability, for only then can we create a future where abundance coexists with harmony, and where the well-being of our planet is nurtured alongside the progress of our industries. His speech focused on the current trends and future prospects of the livestock sector, emphasizing the importance of technological advancements and the role of industry stakeholders in driving sustainable growth.

In the 64th National Symposium, CLFMA Lifetime achievement awardee Shri. Tarun Shridhar, IAS (Retd.) shed light on the theme 'Livestock Sector: Looking Beyond the Present' and shared valuable insights. The livestock sector encompasses various aspects such as animal husbandry, fisheries, and aquaculture. This sector has witnessed impressive growth since its establishment.

"One notable development in this sector occurred in February-March

2019 when the decision was made to separate the Department of Fisheries from the Department of Animal Husbandry. This move recognized the distinct nature and importance of each sub-sector within livestock."

He even emphasised that "It is remarkable that animal husbandry contributes over 30% to the agricultural GDP, despite receiving less than 5% of total investment in comparison to agriculture. To further emphasize the significance of this sector, the Ministries of Fisheries were separated from Animal Husbandry and Dairy, highlighting the need for dedicated focus and attention. This separation from the agriculture ministry was a significant step towards recognizing the unique challenges and opportunities present in the livestock sector. It also paved the way for targeted investment in terms of both financial resources and appropriate policies."

In his address he remembers, "In fact, the first agenda item discussed







in the first cabinet meeting of the new government was a 15,000 crore project aimed at eradicating disease control and improving the food processing system within the livestock sector. This demonstrates the government's commitment to prioritize and support the growth and development of this sector."

"Moreover, the livestock sector has proven to be beneficial to our economy, as evident in the export of fish and buffalo meat. These products, derived from livestock, contribute to our nation's economic growth and provide opportunities for international trade."

He even foresees "The Livestock sector plays a crucial role in our economy, and it is time we look beyond the present and invest in its growth. With appropriate policies and infrastructure development, this sector has the potential to create entrepreneurship opportunities and contribute significantly to our GDP. Let us encourage our children to consider careers in agriculture, fish farming, and animal husbandry, and pave the way for a sustainable and prosperous future."

In conclusion, Shri. Tarun Shridhar's insights highlight the immense potential of the livestock sector and the need to look beyond the present to harness its full capabilities. "CLFMA has the potential to become

a powerful advocate for the industry, taking a strong stand and voicing the concerns and aspirations of its members."

The address was followed by the presentation of the prestigious CLFMA Award. The CLFMA (Compound Livestock Feed Manufacturers Association) Award is a prestigious recognition given to livestock feed manufacturers who have made significant contributions to the industry. This annual award aims to acknowledge the hard work, innovation, and excellence demonstrated by livestock feed manufacturers in India.

CLFMA award serves as a catalyst for the growth and development of the livestock feed industry. By acknowledging and celebrating excellence, it encourages manufacturers to continue striving

for higher standards and innovation in their products. Ultimately, this benefits not only the manufacturers but also farmers, consumers, and the entire livestock farming ecosystem.

CLFMA recognized the exemplary contributions of Dr. Anand Kumar Pathak, Senior Assistant Professor (Animal Nutrition) in SKUAST Jammu and Dr. Pankaj Kumar Singh, Professor and Head of Animal Nutrition Department of Bihar Animal Sciences University, Patna with the prestigious CLFMA Award. The awardees were felicitated by Dr. O. P. Chaudhary, Joint Secretary (NLM/PC).

The event also saw the launch of the official souvenir, marking a significant milestone in the symposium with key dignitaries Dr. O. P. Chaudhary, Mr. Nadir B. Godrej, Mr. Suresh Deora, Mr. Divya Kumar Gulati, Mr. Sumit Sureka, Mr. Naveen Pasupathy, Mr. Sandeep Kumar Singh, Mr. Abhay Shah, present on stage. All office bearers were invited on stage to be an auspicious part of the prestigious moment.

Dr. O. P. Chaudhary addressed the audience, highlighting the initiatives undertaken by the Department of Animal Husbandry & Dairying to promote the growth of the animal feed industry. He highlighted the government's initiatives and policies to support the livestock sector, encouraging industry players to leverage these opportunities for the



sector's growth. He highlighted 3 major points in his speech.

1. "The government officials are now realizing that they are facilitators, and it is their responsibility to come upfront to guide and help people in the animal feed industry. This includes making policies that support the growth and development of the feed industry."
2. "Additionally, there is a need to address the issue of providing nutritious and balanced food to the poor section of the society. By innovating and balancing the feed and fodder, we can reduce the cost and make it accessible to the weaker sections. For those associated with CLFMA, it is important to explore new ways to earn and fulfil their needs. Exporting to other countries, particularly those that are economically weaker than us, can be a viable option. It is crucial to seek support from the government in this regard. It is also important to focus on increasing the purchasing power of the people and ensuring that the needs of those who do not have sufficient financial resources are also fulfilled. To achieve this, efforts should be made to include the unorganized sector in the organized sector."
3. "Currently, the capital subsidy in



Animal husbandry for structural development fund will see a significant growth with an increase from 3 to 5 percent, making it 15,000 crores to 25,000 crores.'

"Overall, there are several opportunities and challenges in the animal feed industry. By working together, government, industry, and stakeholders can create a favourable environment for growth and development." At the end of his speech, he congratulated all the CLFMA awardees as well.

As the event drew to a close, Mr. Abhay Shah, Honorary Secretary of CLFMA of India, delivered the vote of thanks, expressing gratitude to all the dignitaries, eminent speakers, participants, sponsors, and organizers who made the event a success. He emphasized the importance of collaboration and

knowledge sharing in driving the growth of the livestock sector. The evening was followed by an enjoyable networking dinner and live performances. This provided an opportunity for the participants to unwind, connect with industry peers, and build lasting relationships.

The CLFMA of India is proud to have organized such a successful event, bringing together industry leaders and stakeholders for insightful discussions and networking opportunities. The 64th National Symposium of CLFMA of India proved to be a significant platform for knowledge exchange, discussion, and collaboration in the livestock sector. The event successfully shed light on the challenges and opportunities beyond the present, encouraging stakeholders to work towards a sustainable and prosperous future for the industry.

### **About CLFMA of India :**

CLFMA, also known as The Compound Feed Manufacturers Association, was established in June 1967. Over the years, it has gained recognition and support from various stakeholders including the Central and State Governments, livestock farmers, and related organizations. With a membership of 250+, CLFMA represents all sectors of the livestock industry. This includes entities involved in feed manufacturing, poultry, dairy, aquaculture business, animal nutrition and health, veterinary services, machinery and equipment, as well as processing, distribution, and retailing of meat and ancillary services such as banking.

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# Munters Signs an Agreement to Acquire ZECO and Strengthens its Market Position in India

Munters has signed an agreement to acquire ZECO, an Indian manufacturer of air treatment solutions. ZECO will provide Munters with a strong platform to expand its dehumidification offering in the Indian market.

Munters Group (MTRS), a global leader in energy-efficient air treatment and climate control solutions, has signed an agreement to acquire ZECO, an Indian manufacturer of air treatment solutions for an estimated enterprise value of MSEK 790.

The Indian market for dehumidification solutions is characterized by attractive market fundamentals with solid growth in Munters prioritized industrial segments of Battery, Food processing and Pharma. The combined offering of Munters and ZECO positions Munters to grow with market leading products and complete solution sales.

"ZECO is an excellent addition to Munters and constitutes an important step in developing our dehumidification business in India. I am very pleased to announce this agreement which supports Munters growth journey," says Klas Forsström, President and CEO of Munters.

The company has three manufacturing facilities across north, west, and southern regions of India and a widespread network of sales offices across key regions in India, providing Munters with a strong platform for growth.

"The acquisition adds complementary products to our core offer. With our combined product offering and extensive sales network, we will



strengthen our position in several customer segments with strong growth in the Indian dehumidification market," says Henrik Teiwik, President of AirTech and Group Vice President, Munters Group.

ZECO reported net sales of about MSEK 510 for FY 2022/2023, ending on the 31st of March 2023. The reported EBITA-margin is accretive to the Munters Group. The proposed acquisition will be fully financed through existing credit facilities. The privately owned company, ZECO Aircon Limited, established in 1989 and headquartered in Gurgaon, provides air treatment solutions to a customer base in India across various industries.

Closing of the acquisition is subject to customary closing conditions applicable in India. The deal is expected to be completed before year-end closing.

## For more information

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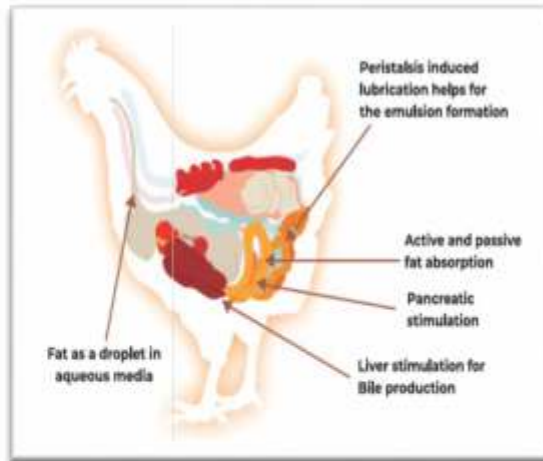
This information is information that Munters Group AB is obliged to make public pursuant to the EU Market Abuse Regulation. The information was submitted for publication, through the agency of the contact person set out above, at 9.30 CEST on September 4, 2023.

## About Munters Group

Munters is a global leader in energy-efficient air treatment and climate solutions. Using innovative technologies, Munters creates the perfect climate for customers in a wide range of industries. Munters has been defining the future of air treatment since 1955. Today, more than 4,000 employees carry out manufacturing and sales in more than 30 countries. Munters Group AB reported annual net sales of more than SEK 10 billion in 2022 and is listed on Nasdaq Stockholm. For more information, please visit [www.munters.com](http://www.munters.com).

# LIPROVET

Accomplishing fat utilization beyond emulsification



## LIPROVET

Fat, the indispensable component of the diets despite bringing the feed texture and digestibility challenges, support the body mainly for energy & hormone synthesis that directly affects performance traits and farm profitability. Despite emulsifier helps to ease the digestion & absorption, the best poultry diets today essentially needs a comprehensive approach for the fat metabolism in the body offering homeostasis, lipotransport & effective fat utilization. Today it is essential to support fat metabolism along with hepatic-regulators, lipotropic agents and osmoregulators for supporting for effective fat utilization by the bird.

Liprovvet is an ideal nutrient combo designed to optimize fat digestion, absorption & utilization for ultimate productivity, improved carcass traits that utterly suites the modern high energy diets.



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For technical details of product, trials you can connect Dr Prasad Kulkarni, Director, Biosint Nutraceuticals @prasad.kulkarni@biosint.co.in



# NOVUS Announces Transition: Managing Director for EMEA Regions & Global Strategic Accounts Business

Dr. Volker Seidl will succeed Dr. Uwe Ranft effective January 1, 2024



Chesterfield, Mo (September 5, 2023) – Novus International today announces the upcoming retirement of Dr. Uwe Ranft from his role as managing director of Europe, the Middle East and Africa (EMEA) regions and global strategic accounts. Dr. Volker Seidl will succeed him, bringing 20 years of extensive experience to the role.

“NOVUS has been fortunate to have Uwe with us for the past 20 years, with 14 of those at the helm of the commercial business in EMEA,” says Senior Vice President & Chief Commercial Officer Ed Galo. “Under his leadership, NOVUS has strengthened its relationships with key accounts and grown its position as a leader in intelligent nutrition solutions throughout Europe, the Middle East, and Africa. We can't thank him enough for his years of service and dedication to his customers and colleagues.”

Dr. Seidl joined NOVUS as the director of global strategic accounts in 2021. At the time, his extensive experience in the



Dr. Uwe Ranft

chemical and animal nutrition industries included head of sales excellence and head of global key account management at BASF Animal Nutrition.

In his new role, Dr. Seidl will help guide NOVUS' commercial strategy within EMEA. In addition to his accountability for the global strategic accounts business, he'll manage the EMEA sales and technical teams, leverage resources, and align corporate functions to support business growth and deliver value to customers.

During his tenure with NOVUS, Dr. Seidl has proven himself ready for this new professional opportunity, Galo says.

“Volker has successfully led efforts to strengthen partnerships and grow business with global strategic accounts,” he says. “He's added value to the customer by developing and executing a



Dr. Volker Seidl

unified framework to identify and manage strategic accounts at all levels of our organization. He is the ideal leader to continue this transformative work as the head of the commercial business in EMEA and with our global strategic accounts.”

The transition period will begin immediately and continue through January 1, 2024, when Dr. Seidl's appointment takes effect. On January 1, Dr. Ranft will switch to a senior advisory role and continue to support the transition and the business through his retirement date, March 31, 2024.

Novus International is the intelligent nutrition company combining global scientific research with local insights to develop innovative, advanced technology that helps protein producers around the world achieve better results. Learn more at [novusint.com](http://novusint.com).



# NOVUS Supports Broilers with New Scale Up™ Program

Novus International today debuts a new program aimed at enhancing the financial success of broiler producers. The Scale Up™ Program for Broilers is focused on improving meat production and carcass quality through sustainably driven intelligent nutrition.

"Intelligent nutrition is the combination of experienced people, insightful perspectives and smarter solutions that allow us to put more into everything we create," says Dr. Gabriela Cardoso Dal Pont, the poultry solutions manager for Americas, NOVUS. "The Scale Up™ Program for Broilers focuses on three focus areas – performance, meat quality and carcass yield, and sustainability and animal welfare. By supporting these pillars through intelligent nutrition, we can positively impact profitability for the broiler producer."

MINTREX® Bis-Chelated Trace Minerals serve as the foundation for the program. Available in organic zinc, copper and manganese, the mineral is bonded to methionine source HMTBa, which protects the mineral as it travels through the digestive system to the site of absorption making it less susceptible to antagonism in the gut. This also means that over-supplementation, which is often found with inorganic trace minerals, is unnecessary.

The Program's strategies, which are customized to meet the farm's goals, include MINTREX® Zn Trace Mineral to support meat and carcass quality,

MINTREX® Cu Trace Mineral to support performance, and the REDUCE AND REPLACE™ strategy, which is shown to reduce the excretion of zinc (up to 37%), copper (up to 41%) and manganese (up to 35 %).<sup>1</sup>

"Even when reducing total mineral inclusion and replacing part of the ration's inorganic trace minerals with MINTREX® Trace Minerals, producers can see the same or better results with less mineral in the feed and less mineral excreted into the environment," Cardoso says.

In commercial and research trials the strategies used in the Scale Up™ Program for Broilers are shown to help optimize the broiler bird performance:

- Improving broiler chicken survivability by an average of 1.46%<sup>2</sup>
- Reducing the incidence of wooden breast and white striping<sup>3</sup>
- Reducing foot pad issues (up to 25%), and skin scratches (up to 25 %)<sup>4</sup>
- Supporting broiler performance under intestinal challenge<sup>5</sup>
- Improving bone strength up to 5.4%<sup>6</sup>

The Scale Up™ Program also offers technical support, laboratory analysis of feed (not available in all areas), and access to NOVUS' Xpert Link™ Network. The Xpert Link™ Network is a group of industry professionals outside of NOVUS with experience in nutrition, management, health, and

feed manufacturing. These external partners can provide unique suggestions, recommendations, and insights to help NOVUS customers get closer to their goals.

NOVUS Executive Technical Service Manager Dr. Bob Buresh, who works directly with poultry customers, says the new program showcases the company's long-time commitment to results-driven programs that support the industry in a sustainable way.

"The North American Poultry Sales and Technical Service teams are excited to bring this program to our broiler customers. It represents our ongoing commitment to deliver science-based and economically valuable solutions to industry partners," he says. "Through the Scale Up™ Program for Broilers, we will continue to support our customers' goals of achieving optimal performance and meat quality and yield in an environmentally sustainable manner."

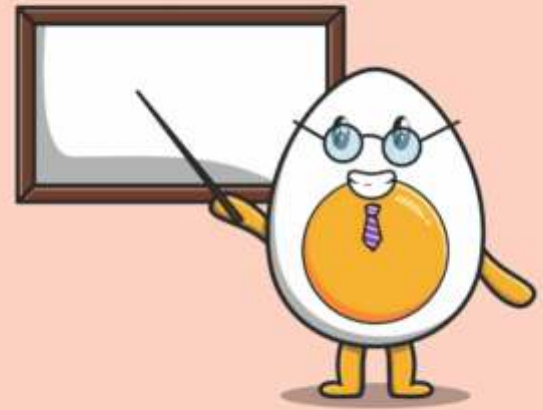
The launch on August 28 was for customers in the Americas. The program will be available for customers in Asia, Europe, the Middle East, and Africa later this year.

NOVUS launched the Scale Up™ Program for Dairy in 2022 before expanding the program to swine and poultry. NOVUS created the program with the aim of working more closely with nutritionists and producers to help their animals achieve their full genetic potential and meet production goals.

*For more information about NOVUS and the Scale Up™ Program for Broilers, visit [Novusint.com](http://Novusint.com)*



# Eggsplare the Funny Side of Life with These Egg-citing Jokes!



**Why did the egg go to school?**

Because it wanted to get a little eggucation!

**What do you call an egg that tells jokes?**

A "comedi-hen"!

**Why did the egg get promoted?**

Because it was an eggcellent worker!

**What did one egg say to the other egg at the party?**

"You crack me up!"

**Why did the egg hide?**

Because it was a little chicken!

**How does an egg apologize?**

"Egg-sorry"!

**What do you call a mischievous egg?**

An "eggscapader"!

**Why did the egg put on sunscreen?**

To avoid getting too fried in the sun!

**What's an egg's favorite type of joke?**

Egg-squisite puns!

**How do you make an egg roll?**

Push it!

**What's an egg's least favorite day of the week?**

Fry-day!

**What do you call a group of musical eggs?**

An "egg-semble"!

**What's an egg's favorite movie genre?**

Shell-arious comedies!

**What do you call an egg who's always telling jokes?**

The "yolkster" of the group!

**What did the egg do when it saw the frying pan?**

It scrambled!

**What do you call an egg that's been around the block a few times?**

An "egg-sperienced" one!

**Why did the egg apply for a job?**

It wanted to make some "eggs-tra" money!

**What did the egg say to the refrigerator?**

"Close the door, please. I'm dressing!"

**What kind of car does an egg drive?**

A Volkswagen!

**What did the detective egg say to the suspect?**

"You're hard-boiled, buddy!"

**How do you make an egg laugh on a Sunday?**

Tell it a yolke!

**What's an egg's favorite dance?**

The egg-citing scramble!

**Why did the egg start a band?**

Because it had the beat!

**What do you call an egg that likes to take risks?**

A "daredevil-egg"!

**Why was the math book sad?**

Because it had too many problems, just like a scrambled egg!





## AB Agri-Funded Study Unveils Promising Bacteriophage Defense against Salmonella

Scientists have created a bacteriophage product that prevents Salmonella in broiler chicken.

A study led by Dr. Anisha Thanki and Professor Martha Clokie of the University of Leicester found that a liquid product made from bacteriophage - viruses that infect and kill bacteria - prevented bacterial infection in chickens.

The trial was made possible by funding from AB Agri, a global feed company that manufactures animal feed as well as nutrition and technology-based products, and the results have now been published in the scientific journal *Emerging Microbes and Infections*.

Salmonella are bacteria that, if transmitted from poultry, can cause food-borne illness in humans and cost the farming industry billions of dollars to control each year. Salmonellosis, a severe form of food poisoning, infects approximately 91,000 people in the EU each year.

It is hoped that the product, which can be given directly to poultry and targets multiple strains of Salmonella found in UK farms, will eventually be available for use in commercial poultry production.

The trial used 672 chickens divided into six control groups to see if the bacteriophage was effective at different doses.

"We tested whether the bacteriophage product delivered in feed at different doses wiped out Salmonella in chickens over a 42-day period," explains Dr.

Anisha Thanki. "On day 42, we discovered that all of those infected and treated with the lowest dose at the start of the trial tested negative for Salmonella. "It's extremely exciting to have created a product that could help reduce infection in chickens and prevent Salmonella from entering our food supply. If successfully commercialized, it has the potential to reduce reliance on existing antimicrobials and save the farming industry billions of pounds each year."

Phages are naturally occurring in our environment and can be found in areas where there are a lot of bacteria.

The bacteriophage used in the trial was created at the University's cutting-edge new Leicester Centre for Bacteriophage Research, which is investigating bacteriophage-based products to prevent and treat bacterial infections in humans, animals, and agriculture.

"We are passionate about finding innovative technologies that enable responsible food production globally," said Dr Natasha Whenham, Head of Innovation at AB Agri. AB Agri is proud to support cutting-edge research into novel solutions that will help propel our industry towards a more sustainable future."

## Enhanced Productivity and Safety: Eagle's MAXIMIZER RMI Redefines Poultry Inspection

Eagle Product Inspection, a pioneer in x-ray inspection technology, is pleased to announce the release of MAXIMIZER RMI, its latest innovative solution for the poultry processing industry. This solution is designed to maximise product throughput and profitability while ensuring the highest level of safety standards are met. It is hygienically constructed with a commitment to improving bone detection and reducing labour related to product rejects.

The MAXIMIZER's integration with the Eagle™ RMI 400 x-ray machine is critical. The machine includes Eagle's superior image analysis software, SimulTask™ PRO, as well as an improved dual energy detector, PXT™. This combination provides unrivalled bone and metal detection while reducing false rejects and operational challenges associated with manual labour. As a result, the production process has been streamlined, increasing overall efficiency.

The MAXIMIZER RMI has dual lanes that can process up to 120 pieces per lane per minute. This, in conjunction with the automated reject management system, provides a quick and efficient inspection process, significantly increasing production rate. MAXIMIZER RMI was designed to be easily disassembled and reassembled for quick and easy sanitation, which is an important benefit in poultry environments where constant harsh cleaning is required.

"Our commitment to driving innovation in the food inspection industry has led us to develop MAXIMIZER RMI," said Christy Draus, Head of Marketing at Eagle Product Inspection, of the new product launch. This advanced raw material inspection solution not only boosts productivity but also ensures the highest quality inspection for poultry processors. We are confident that our latest technology will be a game changer for poultry processors, allowing them to meet their customers' increasing demands while also increasing production efficiencies."

Eagle Product Inspection continues to push the boundaries of food inspection innovation, with MAXIMIZER the latest in a long line of pioneering solutions designed to improve the capabilities of the food manufacturing industry. MAXIMIZER RMI will be demonstrated live at Eagle's booth (N-10813) at PACK EXPO Las Vegas in September.

For more information about MAXIMIZER RMI and to experience the interactive system tour, please visit [eaglepi.com/maximizer-rmi](http://eaglepi.com/maximizer-rmi)

### About Eagle Product Inspection

Eagle Product Inspection is a technology innovator in advanced x-ray



inspection. With a focus on improving food manufacturers' contamination detection and quality inspection capabilities, the company provides solutions for in-process and packaged products across a wide range of industries, including red meat, poultry, seafood, and dairy. The systems developed by Eagle Product Inspection are intended to ensure the highest level of safety and efficiency in the food manufacturing process.

## **Plant-Based Pioneer 'Nowadays' Closes Shop Amidst Funding Challenges**

The San Francisco-based plant-based chicken startup 'Nowadays' has ceased operations two years after launching its first products due to its inability to raise venture capital in this market.

The team was laid off, but the founders are in "active conversations" about selling intellectual property and other assets.

Nowadays, founded in 2020 by Dominik Grabinski and Max Elder and backed by investors including Stray Dog Capital and Texas-based meat processor Standard Meat Co, sought to punch above its weight in the category with products that featured an ultra-short ingredient list and superior nutritional profile.

Its frozen nuggets, which were available direct to consumer in 2021 and in natural and organic retail accounts such as Whole Foods on the west coast in 2022, were created using a patented high-throughput low moisture pea protein extrusion process, allowing the company to use fewer ingredients and scale up more easily with co-packers.

The products were doing well in direct-to-consumer and retail channels, with high repeat purchase rates, but the unit economics of distributing frozen foods were difficult for a startup with limited scale.

The economics only work if there is

capital to really push a multi-year brand building and marketing strategy, and capital is extremely difficult to come by right now.

They have received patents for low moisture extrusion of whole cuts of clean label plant-based chicken using pea protein, as well as a patent on pea protein characteristics for the platform's texturized outcomes. So there's some distinct enabling technology that requires a home.

## **West Bengal to Achieve Self-Sufficiency in Egg Production by March 2024**

The state Animal Resources Development (ARD) department is constructing five state-of-the-art, environmentally controlled mega commercial layer farms, each with a capacity of 3 lakh birds, at Mekhliganj (Cooch Behar), English Bazar (Malda), Purulia, Salboni (West Midnapore), and Haringhata (Nadia), in a significant step towards becoming self-sufficient in egg production. These five government poultry farms are expected to begin egg production in December 2023 and contribute an additional 46 crore eggs annually by March 2024. Furthermore, 156 private poultry projects have been established under the West Bengal Incentive Scheme. 107 of these have already begun egg production, adding 141 crore eggs per year to the state's output. The remaining 49 private sector poultry units are expected to begin production this fiscal year and produce an additional 86 crore eggs per year.

During 2020-21, the state imported approximately 400 crore eggs. Today, as a result of the state's multi-pronged action, there has been a noticeable increase in poultry egg production, and egg imports have decreased from 400 crore eggs per year to 65 crore eggs per year in less than two years. "The state's demand for eggs is estimated to be 1440 crore per year." "By March 2024, we will be self-sufficient in the

production of eggs required for our consumption, with the government procuring 46 crore eggs and the private sector procuring 86 crore," Swapan Debnath, state ARD minister, stated.

The state expects to begin exporting eggs to other regions in 2024-25. In October 2021, Chief Minister Mamata Banerjee announced the government's decision to give high priority to the poultry sector in order to make the state self-sufficient in egg production in a timely manner, given the state's rising demand for eggs, particularly for mid-day meals, ICDS centres, and so on. Poultry eggs are the most affordable source of animal protein. From Rs 33 crore in 2018-19 to Rs 111 crore in 2023-24, the annual budgetary allocation for the backyard poultry sector, which includes individual beneficiaries and women's Self-Help Groups, has been tripled. Over 14 lakh people have been directly employed in the last two years alone. According to the Government of India's published data, Bengal is the country's fourth largest producer of poultry eggs, the largest producer of goat meat, and the third largest producer of all meat products.

## **Environmentally Friendly Eggs: CP Foods Launches Asia's First Carbon-Neutral Cage-Free Egg**

Charoen Pokphand Foods Public Company (CP Foods) is making history by introducing Asia's first carbon-neutral cage-free egg. The Thailand Greenhouse Gas Management Organisation (TGO) certified the product, demonstrating CP Foods' commitment to promoting the consumption of the most animal-friendly and environmentally friendly eggs.

Somkid Wannalukkhee, CP Foods' Head of the Egg Business, emphasised the company's commitment to developing

low-carbon products to reduce environmental impacts across its value chain. The Egg Business Unit has been actively implementing various projects, such as installing automated egg conveyors, reducing food loss using FAO principles, efficiently utilising eggshells, and incorporating alternative energy sources, such as solar panels and biogas systems, into layer farms and egg production processes.

Last year, 23 categories of fresh eggs and cage-free eggs received certification with the Carbon Footprint Reduction Label (CFR) or Global Warming Reduction Label as a result of these efforts. Notably, CP Foods' cage-free egg brand, U Farm, has become Asia's first "carbon-neutral cage-free egg" brand.

"The company's initiative to produce carbon-neutral cage-free eggs is yet another step towards increasing the availability of low-carbon food products, supporting conscious consumers who value animal welfare and environmentally friendly sourcing." Carbon-neutral cage-free eggs provide better nutrition and an ethical option for consumers, according to Somkid.

U Farm, CP Foods' cage-free egg brand, had previously received the GTO's "Global Warming Reduction" label, and this year, the company has taken additional steps to offset any remaining emissions through carbon credit purchase, demonstrating its commitment to decarbonization in food production.

CP Foods' eggs with the "Global Warming Reduction Label" have performed admirably, with a 30% reduction in greenhouse gas emissions below the industry average. Last year, 23 global warming reduction egg products helped to save 617,000 tonnes of CO<sub>2</sub> equivalent.

CP Foods guarantees that its cage-free eggs are produced by special breeding layer hens raised in a cage-free layer system within enclosed houses, in accordance with internationally recognised standards, and certified by Thailand's Department of Livestock Development.

## Researchers Unlock the Potential of Host-Specific Probiotics for Poultry

According to a recent study conducted by researchers at the University of Minnesota College of Veterinary Medicine in collaboration with the College of Food, Agricultural, and Natural Resource Sciences, host-specific probiotic strains resulted in healthier and more productive chickens than non-host-specific strains. These findings may aid researchers in developing new, more effective probiotics to improve poultry health—and potentially the health of many other species.

When it comes to keeping their flocks healthy, poultry farmers face significant challenges. One of the most important aspects of bird health is its microbiota, which is a complex and fragile system of microorganisms that acts as a first line of defence against pathogens, aids digestion, degrades toxins, and contributes to immune health. However, many of the procedures used to protect modern poultry production systems from harmful pathogens also limit birds' natural acquisition of these beneficial microorganisms.

Probiotics, also known as direct-fed microbials (DFMs), are one type of common feed additive used to help maintain the balance between supporting birds' gut health and minimising disease exposure.

While DFMs should have a positive effect on gut microbiota in theory, the evidence is mixed in practise. Furthermore, most DFMs in poultry are recommended for continuous use in feed or frequent use in drinking water. This can add up over time, especially as feed intake increases in older birds.

The research team, led by Tim Johnson, Professor in the Department of Veterinary and Biomedical Sciences and Director of Research and Development at the Mid-Central Research and Outreach Centre, hypothesised that a

DFM made from bacterial strains isolated from the targeted host animals would colonise the gut more easily, providing stronger health benefits and reducing the need for frequent application.

Previous research by the team showed that a single inoculation of a turkey-specific DFM *L. johnsonii* had a positive effect on the turkey gut microbiota, implying that improved health is possible. They successfully demonstrated the same effect for two doses of a host-specific *L. johnsonii*-containing probiotic developed for broiler chickens in this study. In addition, the study demonstrates a method for identifying such optimal probiotic candidate strains for future research.

"Our research shows that there are distinct advantages to using host-specific bacteria, even when considering hosts as closely related as chickens and turkeys," Johnson says. "This concept has applications that go beyond poultry and into human health." This study adds to the growing body of evidence that customised probiotics that take into account both the host and the problem being addressed are more likely to result in a positive outcome for humans and animals."

## ICAR-NMRI Hosts Indo-US Workshop to Boost Poultry Sector Sustainability

The ICAR-National Meat Research Institute in Hyderabad hosted an Indo-US Workshop on "Systems-based integrated approaches for enhancing the sustainability of the poultry sector in India and the USA."

The event was attended by Dr Joykrushna Jena, Deputy Director General (Fishery and Animal Science), Dr Ashok Kumar, Assistant Director General (Animal Health), Dr R. N. Chatterjee, Director, ICAR-Directorate of Poultry Research, and Dr S.B. Barbuddhe, Director, ICAR-NMRI.





Dr. Kumar Venkitanarayanan, Associate Dean, Research, College of Agriculture, University of Connecticut, USA, highlighted the US poultry sector's transformation to become the global leader.

Dr. Naveena B. Maheswarappa, PI-Indian, ICAR-NMRI, emphasised the importance of developing a sustainable and economically viable poultry industry in India for a more environmentally friendly future.

Dr. S.B. Barbuddhe, Director of ICAR-NMRI, spoke about the poultry sector's sustainability and food safety using a single health approach.

Indian poultry sector.

The workshop drew 75 participants, including scientists, faculty members from SAUs, students, poultry industry personnel, entrepreneurs, and e-commerce business ventures.

## G20 Workshop on One Health Challenges and Opportunities in Bengaluru



Dr. Anup Kollanoor Johny, Project Co-PD at the University of Minnesota, and Dr. Abhinav Upadhyay, Project Co-PD at the University of Connecticut, USA, provided an update on the market potential for natural poultry production and antibiotic-free poultry production in the United States.

Mr. Peter Bina of the University of Minnesota met with industry stakeholders to propose evidence-based policies and strategies for improving the sustainability of the

Under the aegis of India's G20 Presidency, Km Shobha Karandlaje, Union Minister of State for Agriculture and Farmers' Welfare, inaugurated a G20 Technical Workshop on One Health: Challenges and Opportunities in Bangalore on August 29-31, 2023. The Minister emphasised the importance of national and international support mechanisms in the health sector to ensure human health, citing the recent example of victory over the COVID-19 pandemic through global



collaborations and India's critical role.

Dr. Himanshu Pathak, Secretary DARE & Director General, (ICAR), and Dr. Joykrushna Jena, Deputy Director General (Fisheries and Animal Science) and Chair of the G20, were in attendance.

The workshop was attended by seven G20 countries: Australia, Canada, France, Italy, Saudi Arabia, the United Kingdom, and the United States, as well as Oman. In addition to the country's representation, representatives from international organisations FAO, WHO, and ILRI attended the workshop. Experts from the Council of Scientific and Industrial Research (CSIR), the Indian Council of Medical Research (ICMR), the Indian Council of Agricultural Research (ICAR), the Ministry of Agriculture and Farmers Welfare, the Ministry of Fisheries, Animal Husbandry and Dairying, the Ministry of Health and Family Welfare, and the Office of the Principal Scientific Advisor to the Government of India participated.

The agenda for the workshop was divided into four technical sessions focused on emerging areas of one health narrative. Expert deliberations from national and international speakers, as well as interaction with country representatives, were held during the technical sessions.

Dr. Jena co-chaired all technical sessions with Dr. Raghavendra Bhatta, Director, ICAR-NIANP, Bengaluru and Chairman of the Local Organising Committee, and Dr. Bikash Mandal, Assistant Director General (IR), ICAR New Delhi.

The workshop identified the need for multilateral collaborations from various domains, including human, animal, plant, and environmental, in order to achieve the One Health goal through the Indian G20 theme of One Family, One Earth, and One Future. To address health challenges across multiple



sectors, encourage interdisciplinary collaboration among stakeholders such as those involved in aquatic and plant health, medical personnel, environmental scientists, and public health professionals.



## New Poultry Data from Merck Animal Health to be Highlighted at WVPAC 2023

INNOVAX® -ILT-IBD, the first vaccine to prevent ILT, IBD, and MD in a single dose that is now available in the EU, will be highlighted in a symposium.

Multiple studies continue to support the value of INNOVAX® -ND-IBD, the first single-dose vaccine against classic and variant IBD, ND, and MD.

Merck Animal Health, a division of Merck & Co., Inc., Rahway, N.J., USA (NYSE:MRK), announced the presentation of 11 abstracts at the 22nd World Veterinary Poultry Association Congress (WVPAC 2023), highlighting new research across the company's broad poultry portfolio. INNOVAX® -ILT-IBD, a dual-construct

HVT vaccine that provides long-term protection against infectious laryngotracheitis (ILT), infectious bursal disease (IBD), and Marek's disease (MD), will also be showcased at a symposium and at Booth #24. WVPAC 2023 will be held in Verona, Italy, from September 4 to 8, 2023.

"Merck Animal Health is leading the development of innovative, science-driven ways to safeguard poultry well-being, making it easier for our customers to protect their flocks so they can ensure the production of high-quality, affordable animal protein," said Fernando Vargas, global poultry technical director at Merck Animal Health. "With INNOVAX-ILT-IBD and INNOVAX-ND-IBD, we are proud to offer a broad range of protection against the most common, highly infectious diseases in poultry, as well as the convenience of a single injection."

The company will discuss INNOVAX-ILT-IBD, the first and only vaccine available in the EU that provides combined protection against ILT, IBD, and MD development in a single injection. Merck Animal Health executives will lead discussions on preventative medicine, sustainability in the poultry industry, and animal welfare. The symposium will also feature poultry industry leaders such as Dr. Guillermo Zavala, founder and owner of Avian Health International, LLC, Dr. Dan Wilson, and Wilson Vet Co., who will discuss topics such as innovation, science, and sustainability, as well as the changing role of veterinarians in the poultry industry.

## Saudi Arabia's Vision for Self-Sufficiency: Boosting Organic Poultry Investment

The Ministry of Environment, Water, and Agriculture in Saudi Arabia has launched an initiative to boost investments in organic poultry production and increase sector output to 5% by 2030.

According to the ministry's undersecretary, Ahmed bin Saleh Al-Ayada, the initiative includes providing facilities to foreign investors and local businesses, as well as offering land at discounted prices.

Al-Ayada stated at a workshop organized by the ministry that the initiative aimed at supporting local poultry production aligns with Saudi Good Agricultural Practices, also known as Saudi GAP.

Through legislation, the initiative will provide appropriate financing and technical assistance to boost organic production in the poultry sector.

It is consistent with the ministry's July announcement of an SR17 billion (\$4.53 billion) expansion plan to boost poultry production and achieve 80 percent self-sufficiency by 2025.

The Kingdom is taking a number of steps to increase local food production. Saudi Arabia's agricultural GDP increased by more than 38% in 2022, reaching SR100 billion (\$26.6 billion) from SR72.25 billion in 2021.

The increase can be attributed to the Kingdom's National Strategy for Agriculture 2030, which aims to create a sustainable sector with food and water security as well as economic, social, and environmental development.

The strategy also aspires to use cutting-edge technologies and practises to conserve natural resources and boost agricultural productivity, while leveraging strategic partnerships with cooperatives, the private sector, and research institutions.



To preserve natural and environmental resources, the Kingdom has implemented a number of strategies, initiatives, and programmes to promote sustainable agricultural development and improve water management.

## Improving Poultry Farm Efficiency: WasteX and Pitik Digital Harness Biochar's Potential

WasteX and Pitik Digital, an Indonesian agri-tech company, have partnered to study the potential of biochar in improving poultry farms. Biochar, a highly porous and carbon-rich substance produced through pyrolysis, has been shown to enhance soil and crop health in crop farming. The study was conducted in West Java, Indonesia, from January to May 2023. The biochar was produced from rice husks using WasteX's proprietary equipment and used as bedding materials and feed supplement in two consecutive trials.



The first trial focused on applying biochar on chicken bedding, with the treatment group using 30% less bedding per chicken compared to the control group. This reduction in bedding usage demonstrated the effectiveness of rice husk biochar and indicated potential cost savings for farmers. The treatment group also showed a 25.7% lower mortality rate, resulting in increased yield and total revenue. The feed conversion ratio (FCR) showed a slight improvement, reducing feed costs and reducing feed requirements.

The second trial involved supplementing chicken feed with

biochar at 8-day old, aiming to reduce *Escherichia coli* (*E. coli*) levels in chicken manure. The results showed a significant reduction of up to 99.8%, demonstrating biochar's effectiveness in reducing harmful pathogens in chicken manure, enhancing hygiene and biosecurity. These results could offer financial benefits for farmers with 20,000 or more chickens, potentially increasing their income and livelihoods.



The study explores the application of rice husk biochar in poultry farming, highlighting its potential for increased crop yields and environmental benefits. The study tested three different compositions of biochar and used bedding, with the highest yield increase achieved using a mixture of 70% biochar and 30% used bedding. This highlights the potential for biochar in agricultural practices beyond poultry farming, as it can enhance crop growth and lead to substantial increases in yields.

Biochar also contributes to reducing farmers' carbon footprint by locking in carbon contained within the biomass during the pyrolysis process. WasteX, the company behind biochar solutions, guarantees its clients carbon credits for \$50/ton, which amounts to up to \$1,500/year for farms with 20,000 chickens or more. The study successfully produced and applied 0.3 tons of biochar on a poultry farm, removing 0.5 tons of CO<sub>2</sub> equivalent (equal to 0.5 carbon credits).

Pawel Kuznicki, Director of WasteX, expressed excitement about the study's results, stating that the additional income from decreased mortality rates and reduced bedding use will largely surpass the carbon credits' proceeds. Pitik Digital, representing Pitik Digital, is in discussion with WasteX on scaling up the solutions to bring impact to many

more Kawan Pitik farmers and increase environmental sustainability. WasteX is also working with other poultry farms in Indonesia and the Philippines to spread their solution further.

In conclusion, biochar represents an alternative solution for the poultry industry, improving farm performance, mitigating environmental impact, and enhancing farmers' livelihoods.

## Cytophage Technologies Enters Strategic Partnership to Extend Reach in South Asian Market

Cytophage Technologies Inc., a Canadian biotechnology company that manufactures bacteriophages, is pleased to announce a distribution agreement with a leading South Asian animal health company. The goal of this collaboration is to broaden Cytophage's market reach and accelerate growth in the thriving South Asian market. In its home region of South Asia, the distribution company is one of the leading pharmaceutical and animal health companies. Their extensive market knowledge, consumer network, and dedication to excellence are all complementary to Cytophage's vision and goals. The first animal health bacteriophage product to be distributed will be Cytophage's FARMPHAGETM formulation for the poultry industry, with additional animal health bacteriophage products to follow. The distribution company has identified four initial target countries in South Asia with a total population of approximately 275 million people, representing an annual production of over 2 billion broiler chicken. Cytophage gains access to an extensive distribution network by partnering with this leading distribution company, allowing the company to reach new consumers and strengthen its position in South Asia. The collaboration will increase the availability and accessibility of Cytophage products, catering to the



region's changing demands and diverse needs. "After our successful local 35-day trial with broiler chicken, we are ready to embark on this strategic partnership with one of the leading animal health companies in South Asia," said Dr Steven Theriault, CEO of Cytophage. "Their knowledge of the South Asian market and established distribution channels will be critical in expanding our market presence and better serving our regional consumers." We are looking forward to a fruitful collaboration that will foster mutual growth and create long-term value." The agreement between Cytophage and its distribution partner goes into effect immediately, with both companies eager to begin joint operations and generate sales before the end of the year.

### About Cytophage

Cytophage is a cutting-edge Canadian biotechnology company that creates highly effective bacteriophages using advanced molecular genetic techniques and synthetic biology to address bacterial challenges affecting animal health, human health, and food security. Bacteriophages are viruses that have evolved to specifically target and destroy bacterial cells while remaining safe for humans, animals, and plants. To combat dangerous bacteria, Cytophage creates tailored phages to address specific bacterial infections, including antibiotic-resistant strains. Cytophage has also recently developed a 'phage-display' methodology for developing vaccine-like products based on bacteriophages for a variety of potential applications in human and animal health. To learn more about Cytophage, go to [www.cytophage.com](http://www.cytophage.com).

## Cutting-Edge National Bio and Agro-Defense Facility (NBAF) Unveiled

The Department of Homeland Security (DHS) and the Department of Agriculture (USDA) collaborate in

opening the National Bio and Agro-Defense Facility (NBAF). The \$1.25 billion facility will replace the Plum Island Animal Disease Center, where USDA scientists led efforts to protect the nation from foot-and-mouth disease and other devastating foreign animal diseases (FADs), such as African swine fever (ASF) and classical swine fever. Nearly 20 million Americans, or roughly 10% of all workers in this county, owe their employment to agriculture, either directly or indirectly.



The National Bio and Agro-Defense Facility (NBAF) is operated by the U.S. Department of Agriculture (USDA) and situated in proximity to the highest concentration of animal health organizations in the world. NBAF will host diagnostics and training as well as research and development of veterinary countermeasures—such as vaccines and antivirals—for foreign, emerging, and zoonotic diseases in livestock within the safety and security of this next-generation facility.

The AVMA has raised awareness about the need for the new NBAF to protect against new and emerging infectious animal diseases. The transfer of science programs from Plum Island to NBAF will occur in phases over the next few years, with registration expected by mid- to late 2024. The USDA will own and operate the 48-acre NBAF campus, which will have over 400 employees with USDA's Agricultural Research Service (ARS) and Animal and Plant Health Inspection Service (APHIS). The facility is equipped with a wastewater pretreatment plant, animal holding areas, and biosafety level-2 (BSL-2), -3, and -4 laboratories.

NBAF scientists and researchers will have access to modern facilities and diagnostic tools for animal disease surveillance, training animal disease first responders, and vaccine research

and development for FAD control and eradication. The facility will be the future home of APHIS's Foreign Animal Disease Diagnostic Laboratory (FADDL), which includes 24/7 diagnostic testing, pathogen surveillance, emergency response, and training.

The NBAF will also transfer the ARS's Foreign Animal Disease Research Unit (FADRU) from Plum Island to NBAF, which aims to understand and develop products to prevent, control, and

eradicate selected foreign animal diseases such as FMD, ASF, and classic swine fever.

The USDA is establishing two new research units at NBAF: the Foreign Arthropod-Borne Animal Disease Research Unit (FABADRU) and the Zoonotic and Emerging Disease Research Unit (ZEDRU). FABADRU will focus on creating intervention strategies for foreign animal diseases transmitted by arthropods, while ZEDRU will focus on combating zoonotic and emerging pathogens in large livestock.

Another USDA first is NBAF's Biologics Development Module (BDM), which will translate NBAF's basic research into applied science such as vaccines and other disease countermeasures.

## Tyson Foods Joins Growing List of Companies Exiting Chinese Markets

Tyson Foods, a meat and processed food company based in the United States, plans to sell its China poultry business, becoming the latest multinational corporation to exit the country in recent years.



Goldman Sachs has been hired to advise the company on the sale, and preliminary information has been sent to potential buyers, including a number of private equity firms.

While it was not immediately clear what price Tyson Foods is seeking for its China poultry business, it has annual sales of approximately \$1.1 billion.

Tyson was evaluating all operations and closing four more chicken plants in the United States in the latest attempt to cut costs after its third-quarter revenue and profit fell short of Wall Street expectations.

According to analysts, China's meat market has become increasingly difficult, with livestock farm margins squeezed in the last two years due to weak demand during the COVID-19 pandemic and increased feed prices due to the Russia-Ukraine war.

In recent years, a number of multinational corporations have divested or reduced their holdings in China, citing difficulties in achieving desired profits due to the country's slower economic growth, fierce local competition, or geopolitical headwinds.

So far this year, foreign companies have divested a total of \$8.4 billion in Chinese assets across all sectors, following \$13.5 billion in disposals in 2022.

In the food industry, Cargill, a subsidiary of Cargill, agreed in May to sell its China poultry business to private equity firm DCP Capital for an undisclosed sum.

FrieslandCampina, a Dutch dairy cooperative, began selling its Friso infant nutrition brand in December 2021 but has yet to find a buyer. In July 2022, it sold an infant formula factory in China to local rival Inner Mongolia Yili Industrial Group.

New Hope Liuhe, a major Chinese feed and meat producer, told investors last month that it was reviewing its operations and considering bringing in strategic investors in its poultry and

food businesses in order to reduce its debt-to-asset ratio.

According to its website for China operations, Tyson Foods opened its first factory in China in 2001 and now has four research and development centres, several processing plants, and dozens of breeding farms in the country.

In China, it operates across the entire industry chain, from breeding and slaughtering to processing and distribution, offering chicken, beef, pork, and processed foods.

According to the company's website, in June it opened a new factory in the eastern Chinese city of Nantong focusing on processed foods such as cooked chicken and pre-made Chinese cuisine, and another in the central Chinese city of Xiaogan focusing on frozen and heat-processed foods.

Tyson Foods reported total sales of \$39.5 billion for the nine months ended July 1, with \$1.9 billion coming from the international and other business segment, which includes its China operations.

## **G20 Pandemic Fund's \$25 Million Grant to Strengthen India's Animal Health System**

According to the ministry of fisheries, animal husbandry, and dairying, the G20 Pandemic Fund has granted \$25 million to India's animal husbandry and dairying department to aid pandemic preparedness and response.

This funding will help to improve India's animal health system, which is an important component of the One Health approach to pandemic preparedness.

The pandemic has highlighted the critical importance of integrated One Health systems in combating emerging infectious diseases, which frequently originate in animals. In recent decades, five of the six WHO-declared public health emergencies of international

concern were of animal origin, highlighting the importance of addressing animal health as a key component of pandemic preparedness and response.

"The G20 Pandemic Fund has approved the \$25 million proposal submitted by the Ministry of Fisheries, Animal Husbandry & Dairying (DAHD), Government of India on "Animal Health Security Strengthening in India for Pandemic Preparedness and Response," the ministry said.

The Pandemic Fund, established during Indonesia's G20 presidency, finances critical investments to strengthen pandemic prevention, preparedness, and response capacities at the national, regional, and global levels, with a focus on low- and middle-income countries, it added.

In the first call, the pandemic fund received approximately 350 expressions of interest (EoI) and 180 full proposals, with grant requests totaling more than \$2.5 billion against an envelope of only \$338 million. On 20 July 2023, the pandemic fund's governing board approved 19 grants as part of its first round of funding allocations aimed at increasing resilience to future pandemics in 37 countries across six regions.

The proposal's major interventions include strengthening and integrating disease surveillance and early warning systems, upgrading and expanding the laboratory network, improving interoperable data systems and capacity building for data analytics for risk analysis and risk communication, strengthening health security for transboundary animal diseases, and strengthening India's role in regional cooperation through cross-border collaboration.

The pandemic fund, according to the ministry, will provide additional, dedicated resources for pandemic prevention, preparedness, and response. It will also incentivize increased investment, improve partner coordination, and serve as a platform for advocacy.

The project's impact would be to reduce the likelihood of a pathogen emerging from animals (domesticated

and wildlife) and being transmitted into the human population, endangering the health, nutritional security, and livelihoods of vulnerable populations, according to the ministry.

The project will be carried out in collaboration with the Asian Development Bank as the lead implementing entity, as well as the World Bank and the Food and Agriculture Organisation (FAO), according to the announcement.

## **ICAR-CIARI organise a training and animal health camp in collaboration with SVO, Rangat**

On August 17, 2023, the ICAR-Central Island Agricultural Research Institute, Port Blair, organised a training programme on "Scientific Livestock and Poultry Production" in Dasrathpur village, Rangat, in collaboration with the Rangat Veterinary Hospital. The programme was coordinated by Dr. P.A. Bala and Dr. Arun Kumar De, Senior Scientists from ICAR-CIARI, and Dr. Sathish, Senior Veterinary Officer, Veterinary Hospital Rangat, Department of Animal Husbandry and Veterinary Services.

The programme drew 40 farmers in total. Mr. Biswanath Mondal, Up-Pradhan, attended the event and encouraged participants to interact with the scientists and get the most out of the programme. Dr Bala emphasised backyard and commercial broiler poultry farming science. He also discussed the importance of balanced feeding for livestock and poultry, as well as scientific strategies for increasing milk and poultry production with proper management. Dr. De went into great detail about scientific pig rearing, parasite control, and neonatal piglet anaemia control. Dr. Satish emphasised the importance of sustainable goat rearing, identifying seasonal diseases, and providing proper nutritional care for the goats.

Farmers were also given feed supplements and medications. Mr. Biswanath Mondal expressed gratitude to the village farmers for their active participation. He also thanked the scientists for their efforts and urged them to hold such programmes for farmers on a regular basis. The Up-Pradhan also thanked the SVO, Dr. Sathish, for his prompt response on all occasions and for providing adequate health coverage for the livestock and poultry.

Three health camps were also held on the same day, and feed supplements and medicines were distributed. The health camps were held in the villages of Chitrakut, Amkunj, and Sabari, with over 100 goats, 50 cattle, and 100 poultry attending.

## **IB Group commissions a poultry feed and hatchery unit worth 160 crore in Amethi**

The new feed and hatchery unit, which spans 12 acres, has a capacity of 600 tonnes of poultry feed and three lakh broiler chicks per day.

IB Group, a diversified agri-business firm, has opened its new poultry feed plant and hatchery unit in Jagadishpur, Uttar Pradesh's Amethi district.

Smriti Irani, Union Minister for Women and Child Development, officially opened the new IB Group plant on Friday. The new feed and hatchery unit, which cost 160 crore to build, is spread across 12 acres and has the capacity to produce 600 tonnes of poultry feed and three lakh broiler chicks per day, according to a company statement.

With the opening of the new plant, the group, which had a revenue of 9,000 crore in FY23, now has five poultry feed plants with a combined capacity of 5,800 tonnes of poultry feed per day. In addition, the group operates six hatcheries and has a presence in 26 Indian states for its poultry, livestock feed, and edible oil businesses. IB Group is one of Asia's top three poultry companies, as well as a market leader in fish feed and edible oil in Central India.



"I would like to thank IB Group for establishing Uttar Pradesh's largest poultry feed plant in Amethi, which is far from Chattisgarh." The poultry industry must be strengthened in order for the country's GDP to grow. "I am hopeful that with technical assistance





to young and talented farmers here, the plant will make its own mark very soon," Irani said at the new unit's inauguration.

"IB Group is aligned with the Honourable Prime Minister's prioritisation of grassroots development," said Bahadur Ali, founder of IB Group. We are fortunate to have established UP's largest poultry feed plant and hatchery unit, which has enormous potential to generate local employment. This region's maize and soya farmers will benefit from the new plant as well. After speaking with the promising young farmers today, my confidence in the growth of the poultry industry in UP has skyrocketed. IB Group is committed to providing young and new poultry farmers in Uttar Pradesh with business opportunities and technological assistance, thereby improving their livelihoods and making Uttar Pradesh a developed and Atmanirbhar state in the region."

IB Group, founded in 1985, is a diverse conglomerate with operations in hatcheries, broiler and layer breeding, genetic research and poultry disease diagnostics, livestock feed (poultry, fish and shrimp), soya bean extract, edible oil and chicken processing. The company has a pan-India presence, a strong dealer network, and a workforce of over 15,000 people. The Group has ambitious growth plans, aiming to double its business by 2027.

## **Narmada Nidhi: Poultry Farming Hybrid Variety**

Narmada Nidhi is a versatile chicken breed developed in Madhya Pradesh for rural sustainability with robust traits and improved productivity. It is a cross between Kadaknath and Jabalpur Colour.

The College of Veterinary Science and Animal Husbandry at Nanaji Deshmukh Pashu Chikitsa Vigyan Vishwa Vidyalaya (Nanaji Deshmukh Veterinary Science University) in Jabalpur has introduced the 'Narmada Nidhi' chicken, a groundbreaking achievement in poultry breeding.

This remarkable chicken variety is a testament to scientific ingenuity and careful crossbreeding, combining the best of both native and improved breeds to thrive in Madhya Pradesh's unique rural and tribal landscapes.

The origins of 'Narmada Nidhi' can be traced back to the cross of two distinct breeds: the indigenous Kadaknath and the forward-thinking Jabalpur Colour. The Kadaknath breed, which is deeply rooted in tribal enclaves in the districts of Jhabua and Alirajpur, contributes 25% of the genetic heritage. Kadaknath chickens have been an integral part of the region's agricultural fabric for generations, renowned for their resilience and local adaptation. The remaining 75% of the genetic makeup is added by the 'Jabalpur Colour' breed, a Jabalpur University achievement. This vibrant broiler breed possesses the traits required for efficient meat production.

The 'Narmada Nidhi' chickens are visual marvels, with captivating multi-colored plumage patterns that blend shades of black, brown, grey, and mixed tones. Aside from their appearance, these chickens have strong body conformation, which allows them to move quickly through free-range environments. This trait not only helps with natural scavenging but also acts as a natural defence mechanism against potential predators.

One of the most impressive aspects of 'Narmada Nidhi' is its adaptability to Madhya Pradesh's challenging climatic conditions. These chickens are incredibly hardy, making them a popular choice among farmers even in the most remote parts of the region. Their growth and production potential exceeds that of their native counterparts, allowing them to thrive despite poor nutrition and management practises.

The remarkable potential of 'Narmada Nidhi' chickens becomes clear as they grow. They reach a weight of 700 to 800 grammes at only 8 weeks of age, demonstrating their rapid growth rate. Male birds reach a weight of around 1550 grammes as they mature, while female birds reach around 1300 grammes by the 20-week mark under

backyard conditions.

The reproductive abilities of 'Narmada Nidhi' hens add to their significance. Under intensive conditions, female birds mature at an average age of 161 days. They lay an impressive 181 eggs in backyard settings, compared to the local native chickens' 45 eggs. Even under semi-intensive management, 'Narmada Nidhi' hens lay about 195 eggs per day. The brown shells and medium size of these eggs, weighing around 50.2 grammes, set them apart.

In essence, 'Narmada Nidhi' is more than just a poultry breed; it represents a long-term solution tailored to the specific needs of Madhya Pradesh's rural and tribal communities. This innovative breed has the potential to improve livelihoods, promote food security, and celebrate the region's rich agricultural heritage by combining the strengths of native resilience with modern breeding techniques. As 'Narmada Nidhi' chickens roam the Madhya Pradesh landscapes, they tell a story of peaceful coexistence between tradition and progress, a story that unfolds with each cluck and flutter.

## **J&K's SKUAST-K Hosts Workshop to Promote One Health and Institutional Collaboration**

A five-day workshop on Epi-Biostat was conducted at the Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir's Faculty of Veterinary Sciences in Shuhama, with the goal of developing a roadmap for institutionalising One Health in J&K.

One Health is a philosophy that recognises that people's health is inextricably linked to the health of animals and the shared environment. Though the concept of One Health is not new, it has gained prominence in recent years following COVID19.

The 'Epi-Biostat: Integrating Epidemiology and Biostatistics for

Implementation Research and Policy Planning in One Health' workshop is organised by the university's Division of Veterinary Epidemiology and Preventive Medicine as part of the World Bank-ICAR funded National Agricultural Higher Education Project (NAHEP) for the institutional development of SKUAST-K.



Renowned international experts in the fields of One Health, Epidemiology, and Biostatistics, such as Dr Siobhan Mor, Reader (One Health), University of Liverpool, Dr Parvez Koul, Director SKIMS, Dr BR Gulati, Director ICAR-NIVEDI, and Dr Salim Khan, Head Community Medicine, GMC Srinagar, delivered special talks and took part in the workshop's inaugural function.

Prof Nazir A Ganai, Vice Chancellor of

SKUAST-K and chief guest at the inaugural function, stated that there are enormous challenges in human and animal health that can only be addressed if all stakeholders come together and work collaboratively.

He stated that SKUAST-K has devised a plan to establish the 'School of One Health,' which will address issues of human, animal, and ecosystem health.

While emphasising the importance of establishing the School of One Health, SKIMS Soura Director Parvez A Koul commended SKUAST-K for organising the event that combines epidemiology and biostatistics. He emphasised the importance of capacity building in epidemiology and biostatistics, as well as data handling in disease informatics.

Dr. Siobhan Mor provided an in-depth explanation of the spread and prevention of Zoonotic diseases. She also discussed the possibility of joint research and academic opportunities between SKUAST-K and the University of Liverpool in the United Kingdom.

Dr. Saleem from GMC spoke about Zoonosis prevention and antimicrobial resistance. He believes SKUAST-K and GMC should work together to allow students from one institution to attend the other, particularly in the fields of community medicine.

In the absence of the required number of bio-epidemiologists and statisticians, Dr Gulati from ICAR briefed the audience on the importance of collaborative work to ensure the success of the One Health programme.

Prof Dil Mohmad Makhdoomi, Director of Extension, elaborated on the interdependence of ecosystem components such as air, water, soil, animals, plants, and humans.

Prof Azmat Alam Khan, OSD to Vice Chancellor, presented the vote of thanks.

A multi-institution MoU was also signed at the event to collaborate on academic and research endeavours in One Health by SKUAST-K, SKIMS Soura, GMC Srinagar, and ICAR-NIVEDI.

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## Berg + Schmidt Expands Reach into the Middle East with New Dubai Subsidiary

Berg + Schmidt - Animal Nutrition has launched a new subsidiary in Dubai, Berg and Schmidt Middle East Trading LLC. The strategic move will enable the company to respond to the growing demand for feed additives while also providing clients with improved customer service in the Gulf Cooperation Council (GCC) states. Berg + Schmidt is a subsidiary of the Stern-Wywiol Gruppe, whose CEO Torsten Wywiol attended the grand opening ceremony in August, emphasising the significance of this critical business decision. Berg + Schmidt will expand its distribution of specialties such as LipoVital functional lipids, LipoAktiv rumen protected glucose and amino acids, BergaFat fat powders, lecithins, trace minerals, and emulsifiers in the Middle East region by opening a warehouse in the UAE.

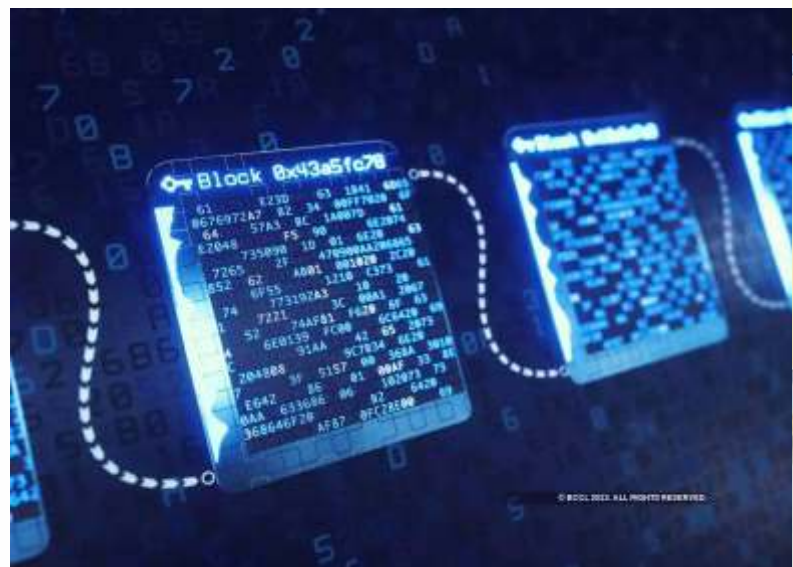
The feed market in the Middle East is rapidly expanding, particularly for broilers, aquaculture, dairy, and beef. Saudi Arabia, Kuwait, the United Arab Emirates, Qatar, Bahrain, and Oman have an increasing demand for live-stock feed, but also for innovative feed additives that support animal health and performance.



## Blockchain Labs will unveil the impact of Web3 technology at the Animal Health Summit.

Blockchain Labs, a forerunner in blockchain innovation, is pleased to announce its participation in the prestigious Animal Health Summit, one of the world's largest animal health industry and investment gatherings. The 18th annual Summit will be held on August 28-29, and is expected to draw 500 attendees from 20 countries, including representatives from emerging companies, leading pharmaceutical companies, venture capitalists, veterinary associations, and prominent industry leaders. This year's Animal Health Summit is looking into how Web3 can revolutionise the animal health industry. For the first time, a special session at the Summit will focus on understanding how Web3 can shape the future of veterinary care and data management. Blockchain Labs has been honoured with the opportunity to speak at this historic event, providing valuable insights into blockchain technology. COOV, an InfraBlockchain-based (Blockchain Labs' proprietary public blockchain technology) vaccine passport with over 40 million users, will be discussed in depth by Blockchain Labs. COOV has already achieved remarkable success in preventing fraud and ensuring the highest level of data security during the certificate issuance and verification processes. Furthermore, Blockchain Labs will demonstrate how COOV's underlying technology can be used to build a robust pet identification system. The animal health industry can unlock a plethora of

possibilities and opportunities for innovation by implementing owner-centric data management. The seamless integration of blockchain-based solutions to improve patient care, streamline processes, and protect vital data will benefit veterinarians, insurers, and other stakeholders. The concept of a convenient and automated digital certificate system is not entirely new, but with the advent of Web3 technology and COOV's proven success, the possibilities for industry players have become even more compelling. Attendees can expect to gain a deeper understanding of how blockchain, electronic health records, and digital identity can reshape the animal health landscape for the better as Blockchain Labs takes the stage at the Animal Health Summit. Blockchain Labs Information Blockchain Labs is driving transformative progress in a variety of industries with its blockchain-based solutions. InfraBlockchain, a Blockchain Labs proprietary and globally patented technology, is a game-changing public blockchain that operates without cryptocurrency, enabling secure, transparent, and cost-effective decentralised applications. Blockchain Labs created COOV, the world's first blockchain-based vaccine pass with 43 million users, and Blockchat, a serverless Web3 messaging app, using InfraBlockchain. Blockchain Labs is based in Seoul, South Korea, and also has an office in San Francisco. For more information, visit [bc-labs.net/en](https://bc-labs.net/en).







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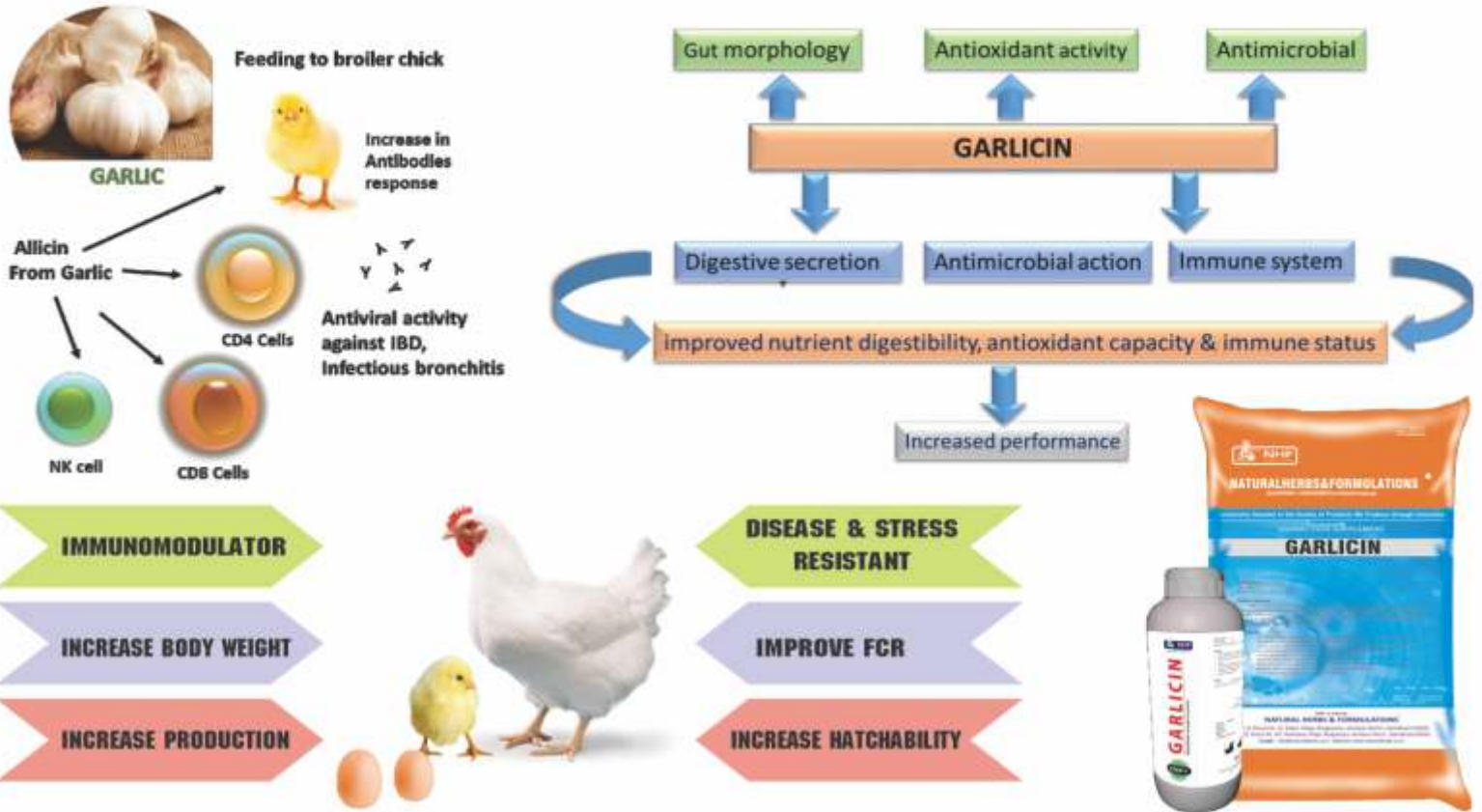


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# EGG

## Daily and Monthly

### Prices of August 2023

Name Of Zone / Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average	
<b>NECC SUGGESTED EGG PRICES</b>																																	
Ahmedabad	445	445	445	445	445	445	445	445	445	455	465	475	475	475	478	480	480	480	480	480	485	490	495	495	495	495	495	495	495	495	500	472.35	
Ajmer	378	395	395	397	397	397	397	405	430	443	443	445	445	448	455	455	455	430	435	435	445	456	460	463	465	465	470	470	472	475	475	438.58	
Barwala	365	378	384	386	386	386	386	398	421	430	433	435	435	438	448	452	452	427	429	429	437	450	453	458	461	461	465	468	470	472	472	431.13	
Bengaluru (CC)	465	455	455	465	475	480	480	480	480	480	490	500	510	515	515	515	515	515	500	475	465	465	475	480	480	480	460	460	465	465	465	481.45	
Brahmapur (OD)	445	440	442	453	462	462	462	462	462	465	470	475	475	475	480	480	480	480	465	465	455	467	477	487	497	497	497	497	497	497	497	473.06	
Chennai (CC)	480	480	480	480	480	490	490	490	490	490	500	510	520	530	530	530	530	530	530	520	510	510	510	510	510	510	510	500	490	490	490	503.23	
Chittoor	473	473	473	473	473	483	483	483	483	483	493	503	513	523	523	523	523	523	523	513	503	503	503	503	503	503	503	493	483	483	483	483	496.23
Delhi (CC)	381	385	398	404	404	404	404	418	441	450	450	450	452	458	470	472	472	445	447	447	456	470	472	475	481	481	484	488	490	490	446.55		
E.Godavari	415	415	420	430	440	440	440	440	440	445	450	455	455	455	460	460	460	460	445	445	435	445	455	465	475	475	475	475	475	475	475	451.45	
Hospet	425	415	415	425	435	440	440	440	440	440	450	460	470	475	475	475	475	475	460	435	425	425	435	440	440	440	420	420	425	425	425	441.45	
Hyderabad	400	400	405	410	415	420	410	400	410	419	429	435	440	440	440	440	430	420	410	410	415	425	435	435	435	435	435	440	445	450	450	425.26	
Jabalpur	400	400	415	430	435	435	435	435	438	443	443	450	455	455	458	465	465	450	440	425	425	432	440	445	450	450	450	453	460	463	463	442.03	
Kolkata (WB)	475	475	495	500	490	480	480	480	490	500	520	520	520	520	525	525	525	510	500	495	495	520	530	545	545	550	550	550	550	550	550	514.84	
Ludhiana	370	373	384	390	390	390	390	390	407	432	433	434	434	434	437	452	452	452	437	433	433	444	455	455	460	460	460	468	470	471	472	431.03	
Mumbai (CC)	480	460	460	465	470	475	480	480	470	480	490	500	505	510	510	510	510	500	490	480	480	485	490	500	500	500	500	500	500	500	505	489.84	
Mysuru	465	457	457	470	480	485	485	485	485	485	495	505	515	520	520	520	520	520	502	477	467	467	477	482	482	482	460	460	465	465	465	484.52	
Namakkal	410	410	410	420	430	435	435	435	435	435	445	455	465	470	470	470	470	470	460	450	440	440	450	460	460	450	430	430	435	435	435	443.39	
Pune	480	465	465	470	475	475	475	475	475	475	485	495	501	505	505	505	505	495	485	475	475	480	485	490	490	490	490	490	490	490	490	485.35	
Raipur	395	395	395	405	405	405	405	405	410	420	430	442	448	448	448	448	438	420	420	425	440	450	455	450	450	440	450	455	460	460	431.13		
Surat	450	450	450	450	450	455	455	455	455	465	475	485	485	485	485	490	490	490	490	490	490	495	500	505	505	505	505	505	505	505	505	481.45	
Vijayawada	415	415	420	430	440	440	440	440	440	445	450	455	455	455	460	460	460	460	445	445	435	445	455	465	475	475	475	475	475	475	475	451.45	
Vizag	450	450	450	450	450	450	450	450	450	455	460	470	470	470	470	470	470	470	470	470	470	470	470	470	470	475	480	480	480	480	480	465.81	
W.Godavari	415	415	420	430	440	440	440	440	440	445	450	455	455	455	460	460	460	460	445	445	435	445	455	465	475	475	475	475	475	475	475	451.45	
Warangal	402	402	407	412	417	422	412	402	412	421	431	437	442	442	442	442	432	422	412	412	417	427	437	437	437	437	437	442	447	452	452	427.26	
<b>Prevailing Prices</b>																																	
Allahabad (CC)	419	424	429	438	452	452	452	452	462	476	481	481	481	481	486	490	495	495	486	476	476	481	486	490	490	486	486	486	486	490	495	472.90	
Bhopal	385	385	385	410	425	425	430	430	430	440	450	450	450	450	450	460	450	465	455	440	445	455	455	455	455	455	460	460	470	475	442.10		
Indore (CC)	410	425	425	425	425	425	425	430	455	460	465	470	470	470	470	470	470	450	450	450	455	465	470	470	470	470	470	470	470	475	475	454.84	
Kanpur (CC)	395	395	410	410	424	424	424	424	443	452	462	462	462	462	462	481	481	481	471	471	471	471	481	481	490	490	490	490	490	500	500	459.68	
Luknow (CC)	433	417	417	417	433	433	433	433	450	460	473	473	473	473	473	493	493	493	493	493	493	493	493	493	493	503	500	500	510	517	517	473.39	
Muzaffarpur (CC)	430	440	445	455	455	445	445	455	480	488	495	500	500	500	511	515	515	515	500	495	500	510	515	520	525	525	528	530	535	535	537	494.97	
Nagpur	430	410	410	415	420	435	450	430	430	450	460	470	460	460	460	460	460	450	450	440	440	460	470	470	470	460	455	455	470	470	470	449.68	
Patna	430	440	445	455	455	445	445	455	480	488	495	500	500	500	511	515	515	515	500	495	500	510	515	520	525	525	528	530	535	535	537	494.97	
Ranchi (CC)	429	429	438	448	448	448	452	452	462	486	495	500	500	500	500	500	500	500	500	495	500	500	510	515	524	524	524	524	524	529	489.68		
Varanasi (CC)	423	433	440	440	440	440	440	443	450	477	487	487	487	487	483	500	500	500	483	483	490	500	500	500	507	507	507	510	513	517	523	480.55	



# Editorial Calendar 2023

Publishing Month:  
**January**  
Article Deadline :  
**28<sup>th</sup>, Dec. 2022**  
Advertising Deadline :  
**30<sup>th</sup>, Dec. 2022**  
Focus :  
**Winter Disease Management**

Publishing Month:  
**February**  
Article Deadline :  
**28<sup>th</sup>, Jan. 2023**  
Advertising Deadline :  
**30<sup>th</sup>, Jan. 2023**  
Focus :  
**Health & Nutrition Management**

Publishing Month:  
**March**  
Article Deadline :  
**26<sup>th</sup>, Feb. 2023**  
Advertising Deadline :  
**28<sup>th</sup>, Feb. 2023**  
Focus :  
**Vaccination & Immunization**

Publishing Month:  
**April**  
Article Deadline :  
**28<sup>th</sup>, March 2023**  
Advertising Deadline :  
**30<sup>th</sup>, March 2023**  
Focus :  
**Summer Management**

Publishing Month:  
**May**  
Article Deadline :  
**28<sup>th</sup>, April 2023**  
Advertising Deadline :  
**30<sup>th</sup>, April 2023**  
Focus :  
**Cold Chain Management**

Publishing Month:  
**June**  
Article Deadline :  
**28<sup>th</sup>, May 2023**  
Advertising Deadline :  
**30<sup>th</sup>, May 2023**  
Focus :  
**Feed Production**

Publishing Month:  
**July**  
Article Deadline :  
**28<sup>th</sup>, June 2023**  
Advertising Deadline :  
**30<sup>th</sup>, June 2023**  
Focus :  
**Layer Farming**

Publishing Month:  
**August**  
Article Deadline :  
**28<sup>th</sup>, July 2023**  
Advertising Deadline :  
**30<sup>th</sup>, July 2023**  
Focus :  
**Genetics & Breeding**

Publishing Month:  
**September**  
Article Deadline :  
**28<sup>th</sup>, August 2023**  
Advertising Deadline :  
**30<sup>th</sup>, August 2023**  
Focus :  
**Biosecurity Practices**

Publishing Month:  
**October**  
Article Deadline :  
**28<sup>th</sup>, September 2023**  
Advertising Deadline :  
**30<sup>th</sup>, September 2023**  
Focus :  
**Winter Breeding Management**

Publishing Month:  
**November**  
Article Deadline :  
**28<sup>th</sup>, October 2023**  
Advertising Deadline :  
**30<sup>th</sup>, October 2023**  
Focus :  
**Environment Control**

Publishing Month:  
**December**  
Article Deadline :  
**28<sup>th</sup>, November 2023**  
Advertising Deadline :  
**30<sup>th</sup>, November 2023**  
Focus :  
**Industry Outlook**

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Enriched with Electrolyte, Dextrose & Vitamin C

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VENITYTE™ acts as energy revitalizer, reduces heat stress and helps in maintaining osmotic pressure (water balance). Also provides energy and supportive therapy for chicks immediately after arrival at farm and during diseases.

**Dose Rate** - 1 kg / ton of feed

2 gm / lit. of water for 250 birds or 500 chicks

For further information please contact:

**VENITY S (INDIA) LIMITED**  
**ANIMAL HEALTH PRODUCTS DIVISION**  
 An ISO 9001 Certified Company

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Breeding, artificial insemination, embryo technology | Feed and feed ingredients | Feed additives | Feed Machinery | Feeding System | Veterinary Medicine and Vaccine | Veterinary Examination | Smart livestock farming | Egg grading, washing, packaging | Incubation | Environmental Control system | Poultry Farming Equipment | Dairy Farming Equipment | Farm Disinfection | Farmland Design and engineering | Livestock house solar energy system | Biogas Technology | Animal waste recycling management | Facilities with Animal Welfare | Wastewater treatment | Meat & Dairy Products | Cold Rooms & Allied Equipment | Cage culture equipment | Aquaculture farming equipment and many more...

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