

# P ULTRYLINE



Readership — Poultry Wide

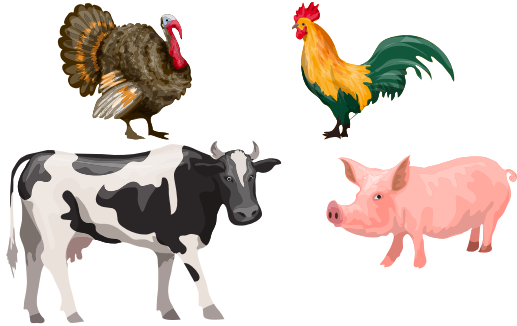
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ISSUE - 02

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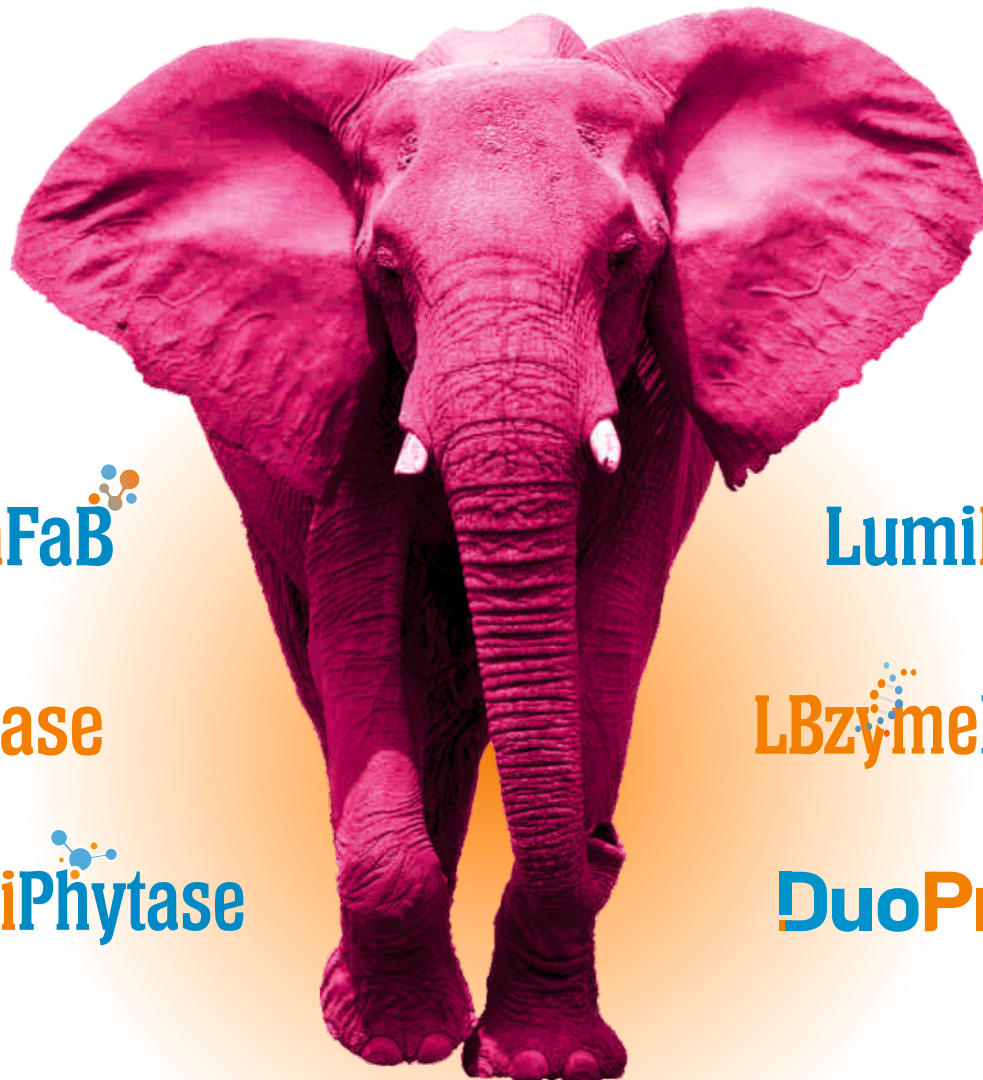


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Last review date: 09/05/2024

\*Additional information is available on request.\*

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## **“BHARAT – AN IMPORTER TO CO-CREATOR!”**



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Not willing to yield to international pressures that like to dominate and subdue democratic Nations like Bharat – the current government has taken a calculated bold step of treading on a new path. Bharat with its rich culture of living ancient civilisation, never give up its support to Russia on the basis of myopic or transactional reasons. This is something the best can never comprehend as it is beyond their perception. Bharat never supports violence but works towards peace and humanity. It publicly condemned killing of soldiers. Be it. either Russia or Ukraine. Nevertheless, Bharat will never give up on trusted friendship that it has cultivated with Russia in early 1970s. When the whole world was against Bharat – Russia stood beside Bharat in Time of crisis, most of the countries display relationship based on being a 'Fair weather friend'. All our neighbouring countries have been rushed with humanitarian relief during crisis like earthquake, floods, tsunami and economic crisis. The countries are Srilanka, Bangladesh, Nepal, Pakistan, Afghanistan, Turkey, Thailand, Maldives, and a few African countries. They could be vaccines during corona, grains during food crisis, or emergency relief in the form of life saving support. Unfortunately, many of these countries have displayed absolute loss of memory of all the kindness and humanitarian support that Bharat extended immediately and un-conditionally.

Bharat – a stronger nation by rather principles more than power alone stands out as a great global potential leader in the making. The consistent resistance against the USA was more on principles rather than just money and economics. For Bharat, it is just not making the moneynow, but actions that are respectable and sustainable in the long run. The political relationship is not based on principles that last beyond the current leadership.

The EU which had teamed up with the USA for various reasons in the past, have come to acknowledge, appreciate and recognise the Indian principles of respect and equality rather than dominance and submission of the nations that create discrimination and dis harmony in the society, leading to collapse of nations. For the West, the idea of calling, the whole world as one family sounded quite utopian until Bharat demonstrated the hopes of making it real.

While America used tariffs as a tool or rather missus the tariff as a rule, it is been suicidal for its own people and economy. Bharat choose to embark on an opposite principal of removing barriers in trade – which is beneficial to the people in the economy of the world. The negotiations involve mutual respect for the respective economy without leading to dominance, separation, or exploitation of the other, the trade deal involves attempting to win, win situation for the countries involved. While this may appear challenging, but not impossible.

It is also amusing to see how EU always viewed Bharat through the lens of and underdog chaotically developing nation of which their own western media always fed only the chosen negative images and perception of Bharat are under shock at the revelation of the real Bharat of which there considerably unaware. It is also amusing to see the EU psychology of suddenly singing, praises and displaying coziness with Bharat at the cost of their decades of friendship with the USA. No country, however, small likes to compromise its independence and dignity, irrespective of the price. They need to pay for their own self-respect; double standards have put the EU in a block.

The EU displayed complacency when Venezuela was attacked, and their President was un-ceremoniously plucked out of their country much to the shock the nations across the world. Karma does not take long to mirror one's own folly- the brutal shock, shook the EU to the core when the Greenland was the next target and pull out from NATO was the next mission. The character of the nation depends upon standing and honouring its principles under all circumstances.

The Indians never ever supported war between Russia and Ukraine, and always advised even the President of Russia to go for non-violence, encouraging negotiations rather than war, which assures destruction to humanity on all the sides

Indian Poultry is looking up with steady market, both of eggs and chicken. The farmers and industry alike need to focus on upgrading and investing in quality, food, safety, sustainability rather than just numbers and quantity.

Bharat is witnessing a lot of new technology in food processing, hygienic slaughter, new feed, additives, use of indigenous and herbal products and import of high technology products that add safety, value and profitability

The Poultry industries keyword has to be not just profitability at purchase level in case of feed additives and Premixes but also focused on save hygienic and export worthy safety and quality along with profitability at the final product level of egg, chicken and milk.

FSSAI, Federation and associations are also contributing to guiding and enlightening the farmers to follow this path in their own long-term interest of the industry.

The editor is keen to share the good response. It has received in continuing with its strength to support the Poultry farmers and the Poultry industry in its upcoming Lucknow Poultry Expo show.



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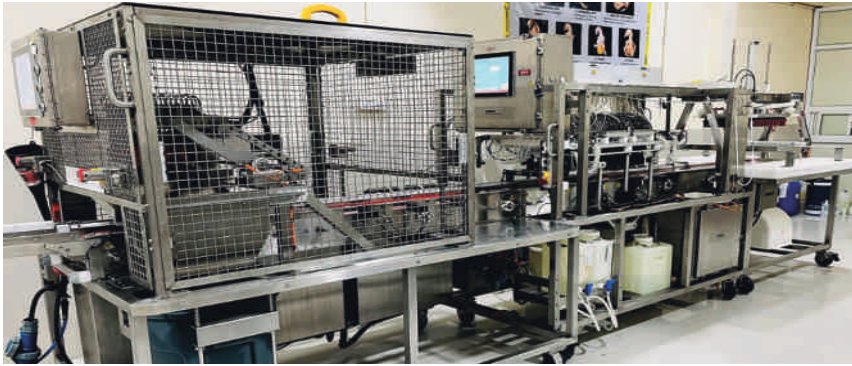
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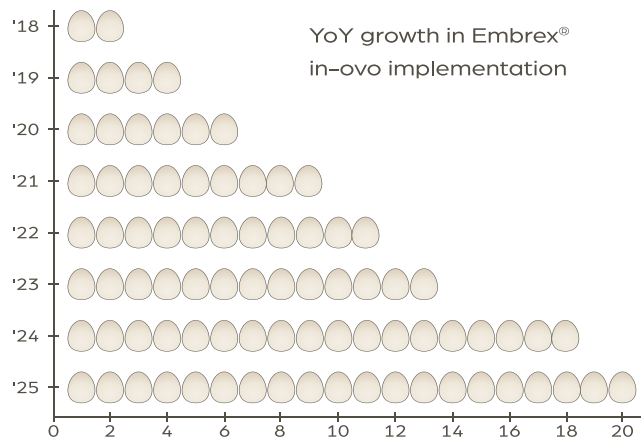
development at our Durham facility, we developed a BioDevice specifically engineered for India's unique requirements. **Equipped with 90 precision injection tools, this innovative solution seamlessly integrates with existing systems, ensuring optimal performance and efficiency in poultry vaccination.**

#### Rapid Recognition and Reach

These numbers tell a remarkable story of partnership and progress of Inovoject® device acceptance in South Asia: from 2 devices installed in 2018 to the 20th device installed in July 2025. This represents a tenfold growth in adoption within just six years.

#### Promise of Progress

Our implementation demonstrates **Zoetis India's commitment to India-specific solutions to support sustainable poultry production and infrastructure modernisation.** The implementation of this BioDevice establishes a scalable model that can accelerate in-ovo vaccination adoption across India's diverse hatchery landscape. Optimised hatcheries now benefit from advanced air circulation systems with temperature-controlled egg collection environments, automated precision-controlled immunisation systems, RO water filtration systems, and quality assurance protocols to monitor embryonic development and injection verification.



"At Zoetis India, we are dedicated to pioneering innovations that not only enhance animal health but also support our customers in their vital work. Our BioDevice implementation is a testament to our commitment to advance the poultry industry in India. Together, we are building a healthier future for farmers and their flocks."

**Dr Renjith Nair, Business Unit Director, Poultry, Zoetis India**



Together, we can transform your hatchery operations and advance poultry health across India with Embrex® BioDevices. Scan the QR code or connect with your Zoetis representative. We are ready to accept implementation orders from November 2025.

References: 1. Avakian AP, Wakenell PS, Bryan T, Schaeffer JL, Williams CJ, White III C. In ovo administration of Marek's disease vaccine: Importance of vaccine deposition site in the fertile egg, in Proceedings. 51st Western Poultry Disease Conference 2002; 119-121. | 2. Broiler performance improved with early placement, In-Ovo vaccination – Zoetis Technical Summary Article. | \*\*As per Zoetis Data on File | All trademarks are the property of Zoetis Services LLC or a related company or a licensor unless otherwise noted. | ©2026 Zoetis Services LLC. All rights reserved. | Zoetis India Limited, 31, 3rd Floor, Kalpataru Synergy Opp. Grand Hyatt, Santacruz (E), Mumbai-55





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## Five New Studies at IPSF 2026 Show How Targeted Nutrition Helps Poultry Producers Get More from Feed

CHESTERFIELD, MO (January 20, 2026) – From variability at the feed mill to processing-level outcomes, five new studies from NOVUS and its research partners will be presented at the 2026 International Poultry Scientific Forum (IPSF). The research demonstrates how targeted enzyme and trace mineral strategies support nutrient utilization, bird performance, and carcass and egg quality. Together, the research offers a comprehensive look at how intelligent nutrition can translate into measurable value across the poultry production chain.

“Producers are under constant pressure to get the most out of every ingredient they feed,” says Rasha Qudsieh, global enzymes and microbials senior manager at NOVUS. “This research shows how thoughtful nutrition strategies, from enzyme selection to trace mineral source, can support how birds use nutrients across the entire production cycle, starting with feed formulation and extending through carcass and egg quality.”

### NOVUS at IPSF Research Presentation Schedule

January 27, 2026 | Georgia World Congress Center in Atlanta, Georgia, U.S.

- Zn-Methionine Hydroxy-Analogue Chelate supplementation improves carcass quality in broilers under commercial conditions. Presented by Ana Clara Polo Ferreira of Bello Alimentos | 9:30 a.m., room B406
- Dietary protease mitigates the negative effects of trypsin inhibitors on digestive function and gut health in broilers beyond super-dose phytase - Performance. Presented by Rasha Qudsieh of NOVUS | 9:45 a.m., room B404
- Dietary protease mitigates the negative effects of trypsin inhibitors on digestive function and gut health in broilers beyond super-dose phytase – Jejunum and pancreas transcriptomics.

Presented by Luis Romero of BIOFRACTAL | 10:00 a.m., room B404

- Gene expression explained the benefits of HMTBa-Chelates of Zinc and Manganese under different copper programs on broiler performance. Presented by Hugo Romero of NOVUS | 10:30 a.m., room B406
- Effects of inorganic, HMTBa-chelated trace mineral, or blended sources of zinc, copper, and manganese on the egg quality of laying hens. Poster presented by Ruth Wallace of Mississippi State University as part of the Student Competition | 4:00-6:00 p.m., room B402

### Protease research focuses on soybean meal variability

A set of presentations evaluates the use of CIBENZA® DP100 Enzyme Feed Additive, a protease feed enzyme, in broiler diets formulated with varying levels of trypsin inhibitors from soybean meal. Trypsin inhibitors are naturally occurring compounds found in all soybeans that can limit protein utilization and negatively impact gut health and growth.

In a broiler study where birds were fed diets containing a high level of phytase, researchers observed that higher trypsin inhibitor levels were associated with lower body weight gain and less favorable feed conversion. When the protease from NOVUS was added to the ration, birds fed higher trypsin inhibitor diets experienced restored growth and carcass yield compared to birds that did not receive the protease.

Complementary transcriptomic research examined gene expression in the jejunum and pancreas of broilers fed the same diets mentioned above. Results showed that elevated trypsin inhibitor levels were associated with suppressed digestive enzyme expression and increased cellular stress

responses. Birds fed the NOVUS protease saw supported digestive and metabolic pathways and more robust indicators of intestinal function.

Together, these findings indicate protease inclusion can help strengthen nutrient utilization when soybean meal quality is compromised by trypsin inhibitors.

### **Trace mineral research highlights the importance of source**

Additional IPSF presentations focus on trace mineral nutrition with MINTREX® Bis-Chelated Trace Minerals. Several studies evaluate replacing higher levels of inorganic zinc (Zn), manganese (Mn), and copper (Cu) with lower inclusion rates of bis-chelated trace minerals from NOVUS.

In a broiler study evaluating different copper programs, birds fed MINTREX® Zn and Mn Bis-Chelated Trace Minerals experienced favorable growth and feed conversion responses compared with birds fed inorganic sources, regardless of copper source and amount.

“Analysis of gene expression showed that bis-chelated minerals supported metabolic pathways associated with protein accretion and energy utilization, while also demonstrating reduced tissue stress responses,” says Romero, who will present the findings at IPSF. “This means the birds’ bodies were better set up to use nutrients for growth and energy when they were fed MINTREX®. The genes that help turn feed into muscle and usable energy were more active, while genes linked to physical strain in tissues were less active. Together, this suggests the birds fed MINTREX® were using feed more efficiently and their bodies were under less internal stress as they grew.”

In a Latin America-based trial, results from commercial field research in Brazil compared carcass quality outcomes in broilers fed lower

levels of zinc supplied as MINTREX® Bis-Chelated Trace Minerals vs inorganic trace minerals. Birds receiving 40 ppm Zn as MINTREX® showed fewer carcass defects, including reductions in skin lesions and footpad issues, compared with birds fed 120 ppm zinc sulfate. These outcomes translated into fewer condemnations and more consistent carcass quality under commercial production conditions.

Lastly, layer research presented as part of the Student Competition at IPSF extends these findings to egg production. In a peak-phase laying hen study, partial or complete replacement of inorganic trace minerals with MINTREX® Bis-Chelated Trace Minerals was associated with positive measurable differences in egg quality parameters, including egg and yolk weights, demonstrating the importance of mineral source for laying hens.

### **Connecting research to practical nutrition decisions**

“Across all of these studies, the common theme is efficiency,” says Qudsieh. “Producers are asking how they can get more value from the ingredients they already use. This research shows that matching enzyme and mineral strategies to real-world conditions can help optimize performance and result in real benefits for the producer.”

NOVUS poultry experts will be available throughout IPPE 2026 to discuss the research findings and their practical implications. Attendees are encouraged to visit the NOVUS booth (Hall A, booth 1833) or connect with their local NOVUS representative for more information.

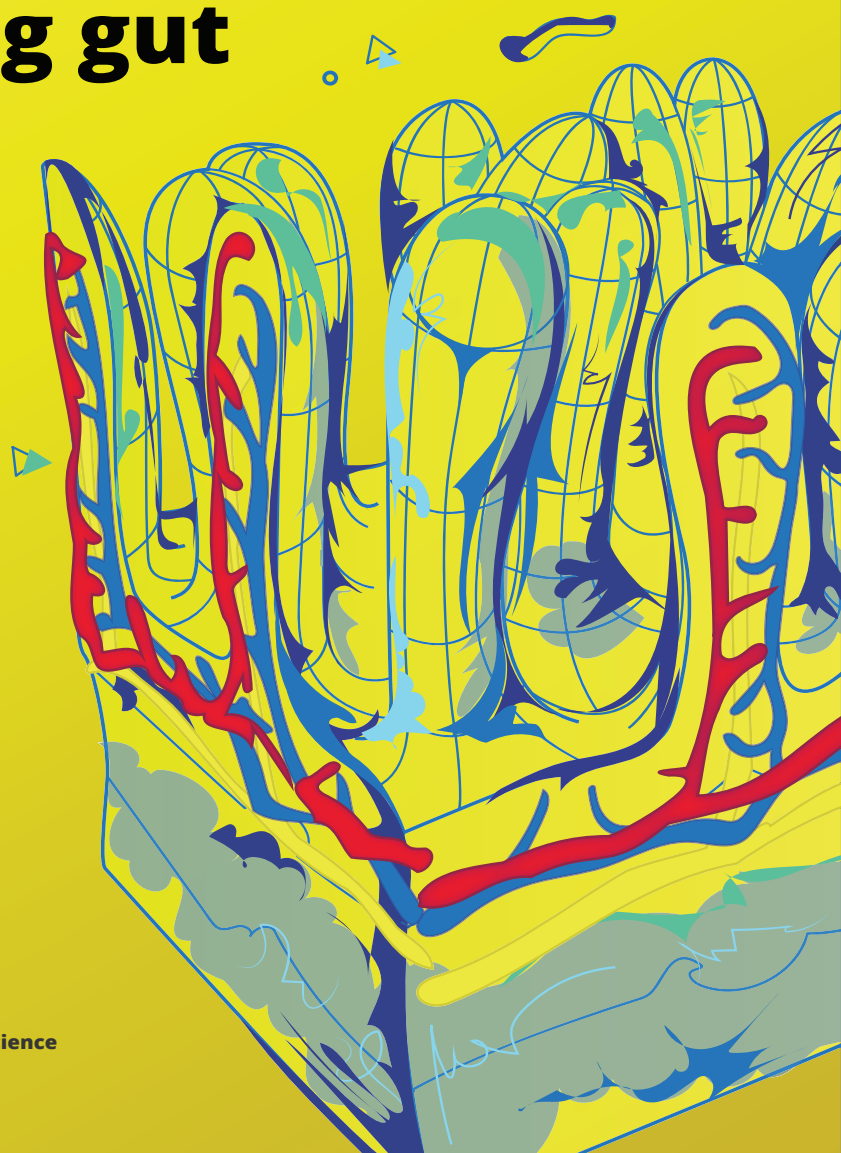
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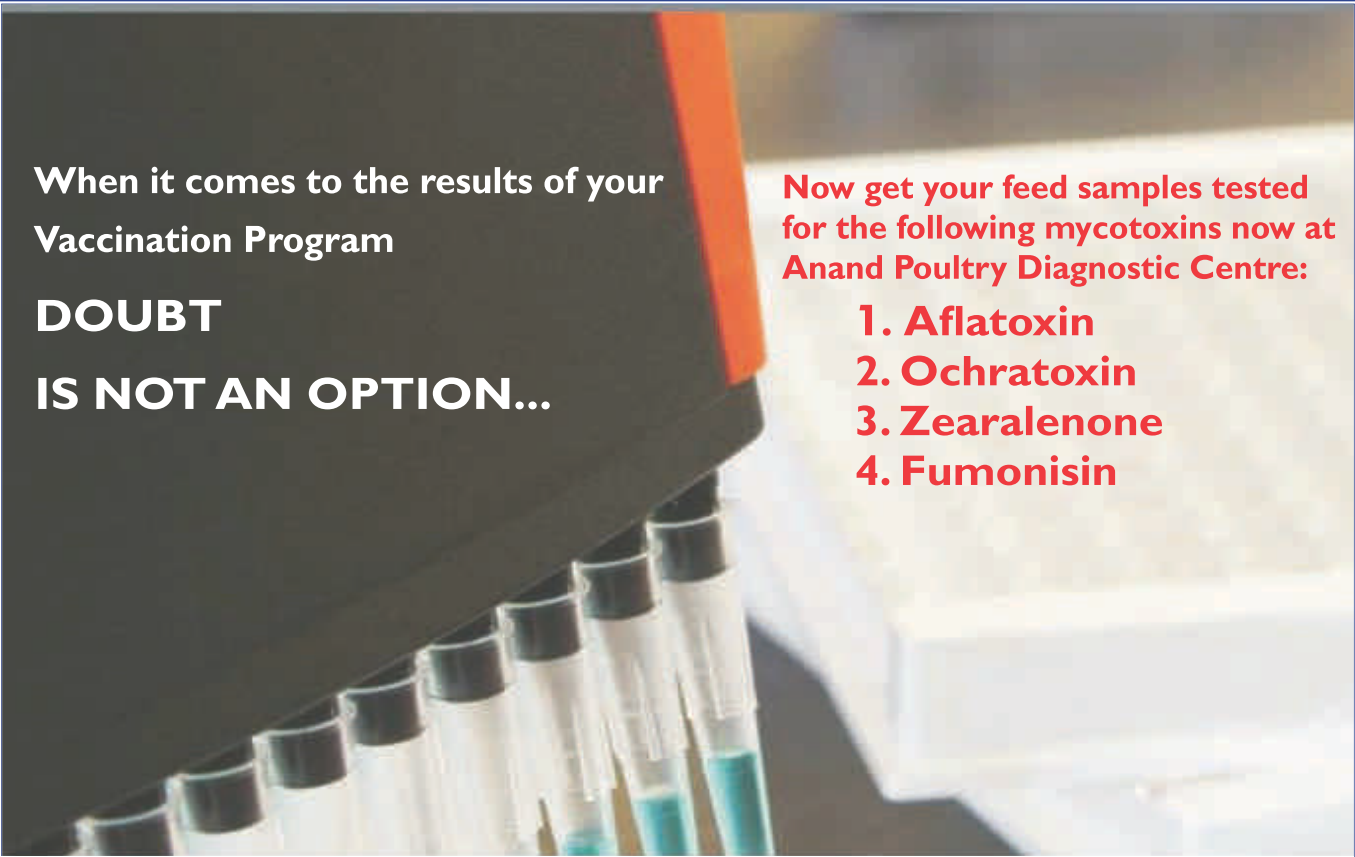
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## **EFFICACY OF ACIDLAC™ W CONC. LIQUID FOR WATER SANITATION AND ACIDIFICATION IN DESI (ASIL) BROILER BREEDER CHICKS AND GROWERS**

Jagadeesh N and Chanthirasekaran R  
Kemin Industries South Asia Pvt. Ltd.

### **AcidLAC™ W Conc. Liquid – A Game Changer in Poultry Water Management**

India has achieved significant progress in broiler production over the past few decades, recording an impressive annual growth rate of approximately 15%. In contrast, indigenous desi breeds remain largely non-descript and exhibit slow growth for meat production. These breeds are also highly susceptible to bacterial and viral infections, with *Escherichia coli* (*E. coli*) being a major pathogen that acts as both a primary and secondary disease-causing agent. Contaminated drinking water is the primary source of *E. coli* infection in poultry.

Water is the most essential nutrient for poultry health and performance, yet its quality is often overlooked. Clean, safe, and soft water is critical for digestion, nutrient absorption, and maintaining a healthy gut microbiome. Among water quality parameters, pH plays a crucial role in determining nutrient availability and maintaining a balance of microbes within the digestive tract. Therefore, continuous monitoring of water pH and coliform counts is necessary to ensure hygienic water delivery to birds.

To address waterborne disease challenges, acidification of drinking water has emerged

as a cost-effective and practical approach. Acidification helps control bacterial contamination and biofilm formation in drinking systems, reducing birds' exposure to harmful organisms and minimizing disease spread. Water disinfection during production is equally important for effective flock management. Thus, water acidification and sanitation form an integral part of a robust water management program, contributing to improved bird health and productivity.

AcidLAC™ W Conc Liquid is a potent antimicrobial acidifier used in poultry as water treatment for total gut health with the following benefits.

- a) Reduces microbial load in drinking water.
- b) Improves intestinal integrity.
- c) Decreases mortality.
- d) Improves performance.
- e) Removes biofilm and mineral deposits in waterlines.
- f) Compatible with antibiotics and no drug residues and withdrawal period.

AcidLAC™ W Liquid will help to improve the digestion, absorption, and utilization of

nutrients in the feed by inhibiting microbes and improving growth performance. AcidLAC™ W Conc Liquid is a synergic blend of organic acids that reduces the water pH and hence improves gut acidification. By reducing the gut pH, AcidLAC™ W Conc Liquid promotes the growth of commensals like Lactobacillus and reduces the load of pathogenic bacteria in the gut, and it maintains gut eco-balance, which promotes growth of the bird and body weight gain, resulting in better FCR. Apart from aiding in the reduction of microbial count in water, organic acids improve protein digestibility by reducing microbial competition with the host for nutrients and endogenous nitrogen losses.

AcidLAC™ W Conc. Liquid is a synergistic combination of organic acids along with an antimicrobial compound, which helps to reduce the incidence of disease and lower the production costs to the customers. The present study was undertaken to evaluate the efficacy of AcidLAC™ W Conc. Liquid in improving water hygiene and the performance of desi (Asil) breeder chicks and growers, focusing on mortality, body weight, and coliform contamination.

## OBJECTIVE

To evaluate the efficacy of AcidLAC™ W Conc. Liquid in improving water hygiene for desi (Asil) breeder chicks and growers under practical farm conditions in Tamil Nadu, India, with respect to mortality, body weight, and coliform contamination.

## METHOD

The study was conducted in 2023 at a well-managed desi breeder farm in Tamil Nadu, India. A total of 14,429 desi breeder chicks were allocated to two experimental groups for a 12-week period, housed in open-sided, deep litter sheds under natural conditions. All birds received a breeder mash diet and ad libitum access to water throughout the trial.

Table 1: Dosage and trial details of experimental groups

GROUP	DESCRIPTION	NUMBER OF BIRDS
Control	Breeder mash diet with NaDCC* tablet as water sanitizer for 12 weeks at 2 tablets/1000L of drinking water	7,229
AcidLac™ W Conc*	Breeder mash diet with AcidLAC™ W Conc Liquid as water sanitizer for 12 weeks at 250 ml per 1000L of drinking water	7,200

Note: \* AcidLac™ W Conc. Liquid is a potent antimicrobial acidifier used in poultry to purify the water from microbial contamination and to improve bird performance.

(#NaDCC- Sodium dichloroisocyanurate)

## PARAMETERS MEASURED

- ▷ Livability – Assessed in terms of mortality %
- ▷ Uniformity – By average body weight
- ▷ Water Hygiene – By Coliform test in water

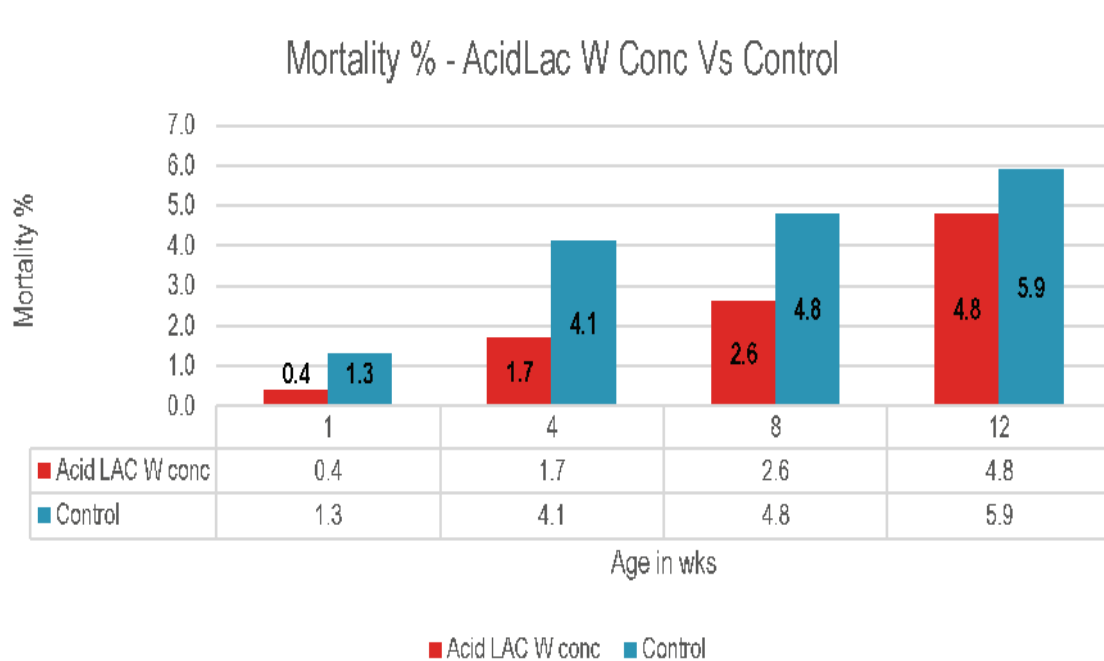
## RESULTS

Results demonstrated that supplementation with AcidLAC™ W Conc. Liquid significantly improved mortality rates, body weight uniformity, and water hygiene compared to the control group

### Impact on Mortality:

Over the 12-week trial period, the group receiving AcidLAC™ W Conc. Liquid exhibited a 1.1% lower mortality rate compared to the control group. Detailed chick and grower mortality data for both groups are presented in Figure 1.

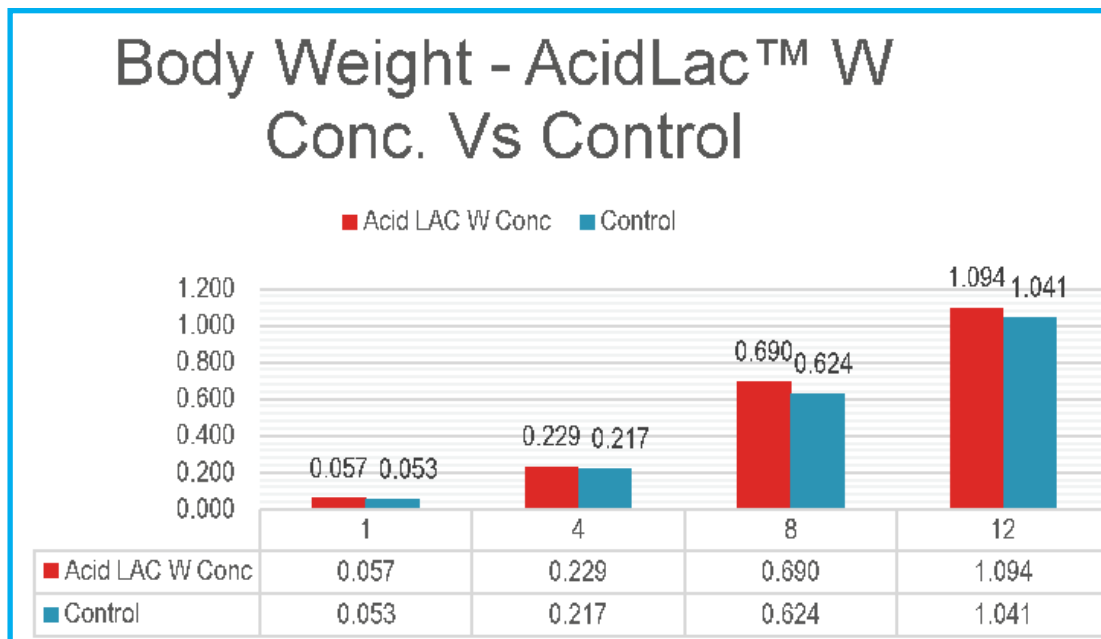
Figure 1: Mortality % of experimental groups during the trial period



Uniformity (Body weight & CV%):

For the total trial period of 12 weeks, the AcidLAC™ W Conc. group had a higher body weight of 53g when compared to the control group. Body weight details of the AcidLAC™ W conc and control group are given as a graphical representation of body weight for both trial and control groups in Figure 2.

Figure 2: Body weight of experimental groups during the trial period.



## Water analysis and treatment of water samples:

As a preliminary part of the trial, key water parameters like hardness, total dissolved solids (TDS) & pH of source water were analyzed, and the results are as follows:

- Hardness - 340 ppm
- pH – 7.6
- TDS – 460

The pH of the same water becomes acidic (pH 6.6) when treated with AcidLAC™ W Conc Liquid and is used for treatment group birds for drinking purposes. Similarly, the NaDCC tablet was used as a water sanitizer for the control group birds, and the pH of the water after adding the NaDCC tablet was 7.3.

Water samples were collected from different places, like tanks, pipelines, and nipples, and tested for coliform contamination by the qualitative method of analysis. Nipple water samples were collected randomly from different places of the sheds, like the front, middle, and end of the shed. Coliform test results for both AcidLAC™ W Conc and the control group are given in Table 2.

**Table 2: Water Hygiene – Coliform Contamination Status in AcidLAC™ W Conc. Liquid vs Control**

Water Hygiene - Coliform Contamination status in AcidLAC™ W Conc Liquid and Control group						
Age in Wks	AcidLAC W Conc group - Coliform status			Control group - Coliform status		
	Tank	Pipeline	Nipples	Tank	Pipeline	Nipples
1	Negative	Negative	Negative	Negative	Negative	Negative
4	Negative	Negative	1% positive	Negative	2% positive	18% positive
8	Negative	Negative	Negative	Negative	18% Positive	22% Positive
12	Negative	Negative	3% positive	Negative	8% Positive	16% Positive

## DISCUSSION

The application of AcidLAC™ W Conc. Liquid in broiler breeder management demonstrated notable improvements in key productivity metrics, including reduced cost of production for growers and lower hatching egg costs, ultimately enhancing overall production performance and chick quality. Water acidification and sanitation with AcidLAC™ W Conc. Liquid resulted in a 1.1% reduction in mortality compared to the control group. Additionally, birds in the treatment group exhibited a 53g higher average body weight. Water analysis revealed that coliform contamination was nearly eliminated in the treatment group, whereas it persisted in the control group. Collectively, these findings indicate that AcidLAC™ W Conc. Liquid delivers superior outcomes across all measured performance parameters.

## CONCLUSION

This study demonstrates that supplementation with AcidLAC™ W Conc. Liquid enhances the economic performance of broiler breeder birds by improving body weight gain, livability, and water hygiene. AcidLAC™ W Conc. Liquid serves as an effective antimicrobial acidifier for chicks and growers, supporting optimal pullet uniformity and overall flock health. Its use reduces the proliferation of harmful bacteria in the digestive tract and promotes improved nutrient absorption, thereby contributing to greater productivity.

References are available upon request.

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**Mr. O. P. Singh**  
Founder

# Alltech South Asia hosts Poultry Nutrition Summit 2025



[COLOMBO, Sri Lanka] —Alltech, a global leader in animal health and nutrition, successfully hosted the South Asia Poultry Nutrition Summit 2025 from 16–18 December at Cinnamon Life, Colombo, Sri Lanka. Centred on the theme of “Smart Nutrition for Profitable and Sustainable Poultry Production,” the three-day summit brought together more than 85 senior industry delegates from across South Asia, including poultry nutrition experts, feed millers, integrators and industry leaders.

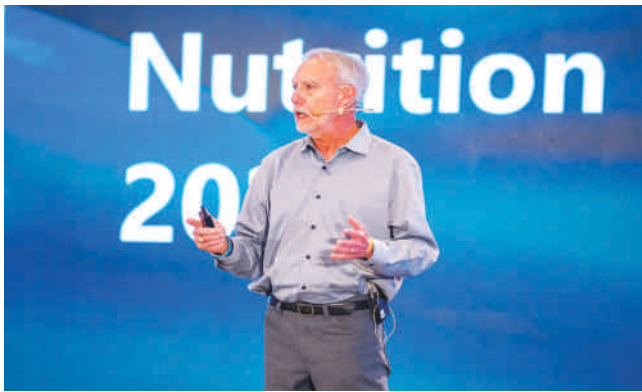
Poultry nutrition has evolved beyond production efficiency to embrace a more holistic approach encompassing biological performance, economic viability, sustainability, biosecurity, food safety and bird welfare. As the industry faces increasing pressure from

volatile raw material prices, supply chain disruptions and rising production costs, the need for smart, science-backed nutritional strategies is becoming more critical than ever.

The South Asia Poultry Nutrition Summit 2025 addressed these challenges by providing a knowledge-sharing platform focused on practical and innovative solutions that can help maintain economic balance without compromising bird performance. The summit agenda was curated to cover key industry themes such as future poultry trends, feed-mill-to-farm efficiency, gut health, precision feeding, feed formulation, meat yield optimization and sustainability-driven nutrition strategies.

The event featured a distinguished panel of





global and regional experts, including Dr. Rick Kleyn, renowned poultry nutritionist and global consultant, who shared insights on advancing nutrition strategies aligned with current industry realities; Dr. Roy Brister, strategic poultry advisor at Alltech, who highlighted the importance of data-driven decision-making and precision nutrition in improving poultry performance and profitability; and Mr. Dilsahn Weviwa, managing director of Pussalla Meat Producers Pvt. Ltd., who provided the audience with a comprehensive outlook on the Sri Lankan poultry industry, highlighting key opportunities and prevailing challenges.

Dr. Richard Murphy, Alltech Director of Research, delivered an insightful session on gut health management, while Dr. Lokesh Gupta, Alltech Technical Director - South Asia, highlighted Alltech's innovative, science-backed solutions tailored to address the evolving needs of the industry. Further strengthening the knowledge exchange, the summit contributed through expert-led technical sessions, panel discussions and innovation briefings, enabling participants to



gain actionable insights applicable to real-world poultry operations.

“The South Asia Poultry Nutrition Summit 2025 was designed to empower poultry professionals with practical knowledge and strategic insights needed to improve efficiency, resilience and sustainability,” said Dr. Aman Sayed, Alltech managing director for India and regional director for South Asia. “Collaboration and continuous learning are essential as the industry navigates an increasingly complex market environment”, he added.

The Alltech South Asia Poultry Nutrition Summit 2025 provided a valuable platform for poultry professionals to connect, learn and explore the latest nutritional innovations shaping the future of poultry production. For more information, visit [www.alltech.com](http://www.alltech.com)

Contact: Raksha PR

Raksha PR, Asst. Marketing Manager (India and Sri Lanka)

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### About Alltech:

Founded in 1980 by Irish entrepreneur and scientist Dr. Pearse Lyons, Alltech delivers smarter, more sustainable solutions for agriculture. Our diverse portfolio of products and services improves the health and performance of animals and plants, resulting in better nutrition for all and a decreased environmental impact.

We are a global leader in the agriculture industry. Our team produces specialty ingredients, premix, supplements, feed and biologicals, backed by science and an

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Strengthened by more than 40 years of scientific research, we carry forward a legacy of innovation and a unique culture that views challenges through an entrepreneurial lens. As a private, family-owned company, we adapt quickly to our customers' needs and focus on advanced innovation.

We believe agriculture has the greatest potential to shape the future of our planet. Our more than 5,000 talented team members worldwide share our purpose of Working Together for a Planet of Plenty®. Together, we can provide nutrition for all, revitalize local economies and replenish the planet's natural resources.

Headquartered just outside of Lexington, Kentucky, USA, Alltech serves customers in more than 140 countries, has five bioscience centers, and operates more than 75 manufacturing facilities across the globe.

For more information, visit [alltech.com](http://alltech.com), or join the conversation on Facebook, X and LinkedIn.

## Free Lance Poultry Consultant

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



### His areas of expertise include:

- Commercial Layer Management.
- Commercial Broiler Management
- Nutrition (Feed Formulations).
- Breeder Management.
- Sales & Marketing of Day-Old commercial Layer chicks, Broiler chicks & Poultry Feed.
- Sales & Marketing of Broiler Breeder.
- Integration.
- Training to Field staff.
- Field Trial of Drugs & Feed additives.
- Speaker in Technical Seminars.

He can be Contacted at:- **Dr. Manoj Shukla**

A-1, Gaytri Nagar, Phase-II, P.O. Shankar Nagar, Raipur, Chhattisgarh-492007

Mob.No : 09644233397, 07746013700, Res. 0771-4270230

Email : [drmanu69@gmail.com](mailto:drmanu69@gmail.com)

As a strategic partner, Poultry Line wishes Dr. Shukla every success in his new assignment

Vesper's



## VES-PHASE 1

### COMPOSITION PER 10KG

**Ves- phase 1** : A brilliant combination of Vitamins premix , minerals premix with phytase, lysine, methionine, lipolytic, toxinbinder, choline, acidifier, multienzyme, probiotics and growth promoters

**Inclusion Rate per ton of feed:** 10 Kg/Ton of feed or as recommended by Veterinarian

Always keep the bag tightly closed in a cool, dark and dry place away from sun light

## VES-PHASE 2

### COMPOSITION PER 10KG

**Ves- phase 2** : A brilliant combination of Vitamins premix , minerals premix with phytase, lysine, methionine, lipolytic, toxinbinder, choline, acidifier, multienzyme, probiotics and egg shell enhancers.

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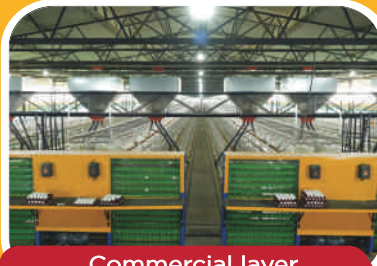
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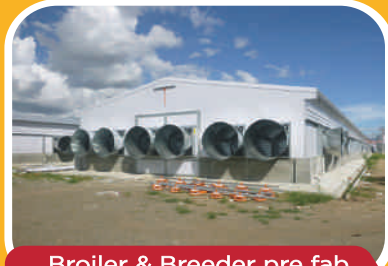
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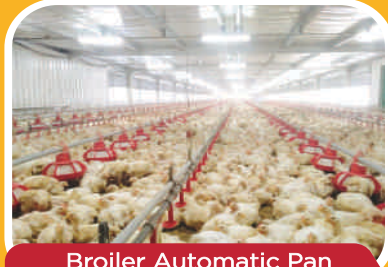
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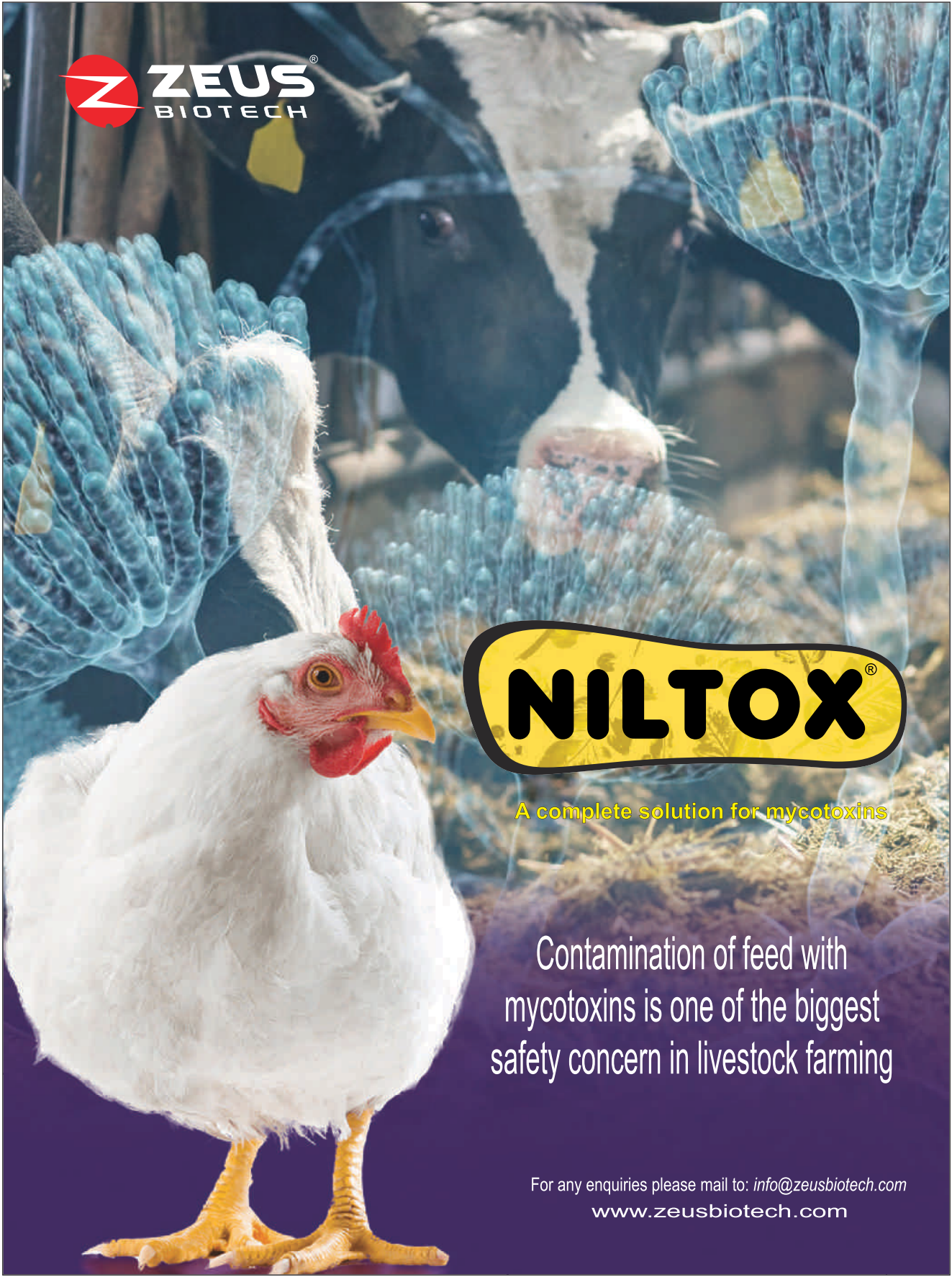


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## **Kick-Off Meeting for WVPA Asia Meeting 2026 Held in New Delhi “Innovations in Poultry Disease Management for a Safer/ Healthier World.”**



The World Veterinary Poultry Association (WVPA), in association with WVPA India and with Agrinnovate India Limited and Department of Animal Husbandry and Dairying (DAHD) Ministry of Animal Husbandry, as Knowledge Partners, successfully organized the Kick Off Meeting for the 7th WVPA Asia Meeting on 9 January 2026 at NASC Complex, New Delhi. The meeting held under the chairmanship of Dr. M. L. Jat, Director General, ICAR. The Guest of Honor was Dr Inderjeet Singh, Hon VC BASU and Special Guest Dr Pravin Malik, AHC, set the strategic course for the international conference to be hosted in New Delhi on 9–10th October 2026.

The kick off meeting brought together leaders and stakeholders from government, academia, industry, research organisations and professional bodies to deliberate on priorities, partnerships and the roadmap for the Asia Meeting. deliberations focused on strengthening disease preparedness, biosecurity, accelerating digital transformation, addressing antimicrobial resistance (AMR), improving nutritional efficiency, and advancing

sustainable and profitable poultry production across Asia.

### **Key highlights:**

- Dr. Ajit S. Ranade delivered the opening remarks and provided an overview of the meeting agenda and objectives and was moderator for the panel discussion.
- Dr. Shirish Nigam, Secretary, WVPA India, addressed the strategic role of WVPA India in strengthening Asia’s poultry knowledge network, underlining that Asia accounts for approximately 50% of the world’s egg and chicken production and that coordinated regional cooperation is essential for future growth.
- Dr. Jeetendra Varma, President, WVPA India, outlined WVPA India’s action plan and roadmap leading up to the 7th WVPA Asia Meeting (9–10 October 2026), and briefed attendees on the proposed programme structure and preparatory milestones.
- Mr. Suresh Chitturi, Managing Director,





Srinivasa Group (Keynote Address), highlighted India's rapid growth trajectory in poultry production. He noted that India currently produces approximately 149 billion eggs annually, with a per capita egg consumption of 106 eggs per person per year, and projected that egg production could reach 200 billion in future years. On poultry meat, Mr. Chitturi observed that India is the world's fifth largest producer, with per capita chicken consumption around 7.5 kg per person per year, and an expected sectoral annual growth of 8–10%.

- Dr. Praveen Malik Animal Husbandry Commissioner (AHC) DAHD, Government of India; CEO, Agrinnovate India Limited) urged industry stakeholders to bring forward practical issues and suggestions to strengthen the poultry sector and reaffirmed the Animal Husbandry Department's support for collaborative initiatives.
- The programme included a special online address by Prof. Dr. Sjaak, WVPA Global President, who highlighted WVPA's



international activities and the association's role in fostering global exchange among poultry health professionals.

- Dr. Inderjeet Singh Hon Vice Chancellor, Bihar Animal Science University, Guest of Honour emphasised industry led research and stronger industry academia partnerships, and called for initiatives that support rural and backyard poultry systems.
- High level participation and active contributions from ICAR leadership included Dr. M. L. Jat (DG, ICAR), Dr. Divakar Hemadri (ADG Health) and Dr. A. K. Samanta (ADG, Nutrition) all of whom pledged support and provided guidance for the Asia Meeting. The DG assured the poultry industry that there will be no shortage of maize for poultry farmers in the coming days.

### Leadership Panel Discussion

The meeting concluded with a Leadership Panel discussion on "What Asia Expects from India's Poultry Leadership", comprising



representatives from poultry industry organisations and associations, major integrators, animal health and feed companies, and academic and research experts. Mr. Ranpal Dhandha, President, PFI, Dr Yash Goyal, MD MSD, Mr Vijay Teng, President, INTAS, Mr Uday Singh Bayas President, Poultry India, Dr Arun Atrey, CEO Zenex AH, Dr Sanjay Gavkare GM, Venkys, Dr CB Pathak VP VIP, Dr Ali Asgar, MD Saife VetMed, Dr Leena Bora Vamso, Dr NK Mahajan, Mr Mohit Malik, Mr SK Malhotra, Dr Divakar Hemadri ADG ICAR, Dr AK Samanta ADG ICAR, Maj Gen ML Sharma Gen Secy NAVS were among the panelist. The panel explored regional expectations, potential avenues for public private collaboration, student engagement and capacity building, technology transfer, and pathways to strengthen preparedness against transboundary diseases and AMR.

Notable commitments announced during the session included support from industry associations to promote attendance and sponsorship for veterinary students and emerging professionals.

### Closing

The Kick Off meeting reaffirmed India's readiness to host an inclusive and high impact international forum that will advance science, policy and industry practice in poultry health and production across Asia. The organisers expressed their appreciation to all participants, speakers and partner organisations for their active contributions. The meeting closed with a formal word of thanks by Dr. B. Barman.

### About WVPA & WVPA India

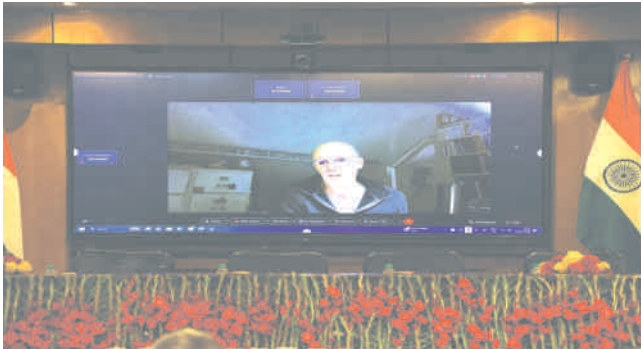
The World Veterinary Poultry Association (WVPA) is a global professional body founded in 1959 that brings together veterinarians and avian health professionals from academia, research, government and industry. WVPA presently has branches across multiple countries and works to promote scientific exchange and best practice in poultry health and production. WVPA India is the national branch facilitating regional cooperation and the organisation of the WVPA Asia.

For any enquires pls contact, WVPA India or Agrinnovate India Limited at [dr.barman@gmail.com](mailto:dr.barman@gmail.com). Pls visit [www.wvpaasiameeting2026.com](http://www.wvpaasiameeting2026.com)









## **NOVUS Releases Global Soybean Data, Highlights Risk Hidden in Poultry and Swine Diets**

CHESTERFIELD, MO (January 26, 2026) – Soybean meal is a mainstay of poultry and swine diets worldwide but variability in soybean quality creates hidden risks, both nutritionally for the animals and economically for producers.

A new white paper from NOVUS draws on more than a decade's worth of data to explain why trypsin inhibitor (TI) in soybean meal is a persistent and often underestimated challenge in modern feed formulation.

“Soybean meal is the greatest protein contributor in most diets, yet its nutritional value is often assumed rather than measured,” says Rasha Qudsieh, NOVUS global enzymes and microbials senior manager. “Our data from more than 1,900 soybean meal samples globally shows that trypsin inhibitor levels are highly variable across regions, years, and processing methods, and even small increases in TI can negatively impact amino acid digestibility, feed efficiency, and animal performance.”

Trypsin inhibitors are part of a plant's natural defenses that also interfere with protein digestion. While commonly associated with under-processed soy, NOVUS research found that TI can persist even in commercially processed soybean meal with measurable effects on gut health and growth in both poultry and swine.

“We've analyzed hundreds of soybean meal samples globally, creating an extensive database on trypsin inhibitors. We've also invested years developing practical methods to measure TI accurately,” says Paula Fisher, NOVUS analytical services senior manager.

“This paper shares what we've learned and explains why routinely monitoring TI is becoming increasingly important for nutritionists who want consistency in animal performance and predictability in their financial returns.”

The white paper called *Outsmarting Trypsin Inhibitors* includes information on

- Why there is no “safe” level of TI where animal feed is concerned
- How TI levels vary globally and across soybean products
- Why heat processing alone does not eliminate risk
- The documented impacts of TI on poultry and swine performance
- Practical strategies for measuring and managing TI-related risk

NOVUS plans to update the white paper annually to reflect new information collected in its Global Trypsin Inhibitor Database, providing the industry with an evolving view of soybean quality and TI trends.

The white paper is available for digital download at [novusint.com/resources](http://novusint.com/resources).

NOVUS is the intelligent nutrition company combining global scientific research with local insights to develop innovative, advanced technology that helps producers around the world get more from their flocks and herds. For more information, visit [novusint.com](http://novusint.com).



**NATIONAL EGG CO-ORDINATION COMMITTEE**  
**DAILY/MONTHLY EGG PRICES SUGGESTED BY NECC AND PREVAILING PRICES AT VARIOUS PRODUCTION CENTRES (PC) AND CONSUMPTION CENTRE (CC)**  
**FOR THE MONTH OF JANUARY- 2026**

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	680	680	660	660	640	640	640	640	640	640	640	640	640	640	640	610	580	550	550	530	530	530	530	530	530	540	545	550	555	555	530	530	597.74
Ajmer	640	640	615	605	605	595	595	595	595	595	595	595	595	595	570	540	522	507	490	490	470	470	480	480	480	490	501	505	490	475	450	547.81	
Barwala	630	630	630	585	585	585	585	565	560	560	560	560	560	560	536	530	517	517	485	485	485	485	485	485	485	485	492	495	462	444	438	534.77	
Bengaluru (CC)	705	705	685	685	665	665	645	625	605	605	605	605	605	605	605	605	605	575	550	550	550	550	550	555	560	565	570	570	575	575	575	603.06	
Brahmapur (OD)	640	640	630	630	620	610	610	590	590	590	570	570	570	570	560	560	550	530	520	515	500	500	480	480	490	515	525	525	500	500	500	554.68	
Chennai (CC)	710	710	700	690	690	670	650	630	610	610	610	610	590	590	590	590	590	590	570	550	530	530	530	530	550	570	580	580	580	580	580	602.9	
Chittoor	703	703	693	683	683	663	643	623	603	603	603	603	583	583	583	583	583	583	563	543	523	523	523	523	543	563	573	573	573	573	573	595.9	
Delhi (CC)	680	680	660	650	650	625	625	625	625	625	625	600	600	600	600	595	580	560	550	540	540	520	520	520	520	520	520	520	520	520	520	581.94	
E.Godavari	620	625	625	625	625	585	585	585	585	585	550	550	550	550	550	550	550	515	495	495	475	475	475	475	475	480	490	505	515	515	515	545.48	
Hospet	645	645	625	625	605	605	585	565	545	545	545	545	545	545	545	545	545	515	490	490	490	490	490	490	495	500	510	510	515	515	515	543.06	
Hyderabad	630	630	630	610	600	580	580	580	560	560	560	540	540	540	540	540	540	510	500	500	500	470	470	470	475	485	495	505	510	515	515	539.52	
Jabalpur	645	645	645	625	625	625	600	600	600	600	580	580	580	580	570	555	555	535	510	510	510	500	500	500	500	505	520	525	525	525	505	562.26	
Kolkata (WB)	685	675	675	650	650	650	635	635	635	615	615	600	600	600	600	600	580	560	560	540	540	540	540	540	545	555	575	580	580	580	530	597.74	
Ludhiana	630	630	630	630	602	602	585	585	585	565	565	565	565	565	565	565	530	520	520	500	485	485	485	485	485	485	485	492	493	493	493	545.74	
Mumbai (CC)	700	690	685	685	670	660	645	635	635	625	625	615	610	605	605	605	600	590	580	570	560	545	545	545	545	555	565	575	580	580	580	606.61	
Mysuru	706	706	706	675	675	670	645	625	603	603	603	603	603	605	605	605	605	575	550	550	550	550	550	555	560	567	572	572	577	577	605.1		
Namakkal	640	640	640	640	620	620	600	580	560	560	560	560	560	560	560	560	560	530	500	500	500	500	500	500	510	515	520	520	525	525	525	554.68	
Pune	695	695	690	685	675	665	645	645	635	635	635	625	620	615	615	610	605	590	580	570	560	550	550	550	555	560	565	570	575	575	575	611.77	
Raipur	620	620	620	620	620	610	595	600	600	570	570	560	555	555	555	555	545	520	515	495	495	547	547	495	505	515	527	535	535	527	507	555.74	
Surat	690	690	680	680	660	640	640	640	640	640	640	640	640	640	640	625	610	590	570	560	540	530	530	530	530	535	545	555	555	545	600.81		
Vijayawada	660	660	640	620	620	620	610	610	600	600	600	575	575	575	575	575	575	550	525	510	500	500	500	500	505	510	525	550	550	550	550	567.42	
Vizag	660	635	610	610	610	585	585	585	585	585	585	550	550	550	550	550	550	515	495	495	495	475	475	475	475	480	490	510	515	515	515	546.13	
W.Godavari	620	625	625	625	625	585	585	585	585	585	585	585	585	585	585	585	585	585	585	585	585	585	585	585	585	585	585	585	585	585	585	545.48	
Warangal	632	632	632	612	602	582	582	582	562	562	562	542	542	542	542	542	542	512	502	502	502	472	472	472	477	487	497	507	512	517	517	541.52	

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Bhopal	640	620	620	620	620	620	600	600	600	600	580	580	580	580	580	570	550	530	530	510	510	500	500	500	510	525	530	540	540	525	525	561.45
Indore (CC)	650	640	640	640	630	610	600	590	585	585	575	575	575	575	575	560	550	530	520	510	510	500	490	495	510	520	525	525	515	500	490	557.58
Kanpur (CC)	681	667	667	667	643	629	614	614	614	614	600	600	600	600	590	571	557	548	548	524	500	500	500	505	510	514	519	519	519	490	577.26	
Luknow (CC)	700	700	686	686	686	667	652	638	638	638	619	619	619	619	619	600	581	571	562	552	552	552	552	552	550	557	557	557	557	538	606.16	
Muzaffarpur (CC)	700	700	690	690	690	645	645	645	645	625	625	625	625	625	625	620	600	580	560	545	520	525	525	530	545	545	550	540	530	500	598.39	
Nagpur	650	650	645	645	645	615	600	600	600	590	580	580	560	560	560	560	560	540	540	530	520	500	490	490	500	490	510	530	530	530	561.77	
Patna	700	700	690	690	690	645	645	645	645	625	625	625	625	625	625	620	600	580	560	545	520	525	525	530	545	545	550	540	530	500	598.39	
Ranchi (CC)	695	695	667	667	667	657	667	647	647	619	619	619	609	600	600	600	595	572	572	562	571	495	548	548	548	548	571	571	586	548	602.65	
Varanasi (CC)	707	683	677	667	667	650	650	650	633	633	623	617	617	610	610	610	600	590	583	573	567	557	540	533	533	540	543	547	533	517	597.74	



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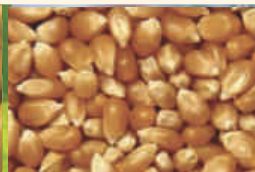
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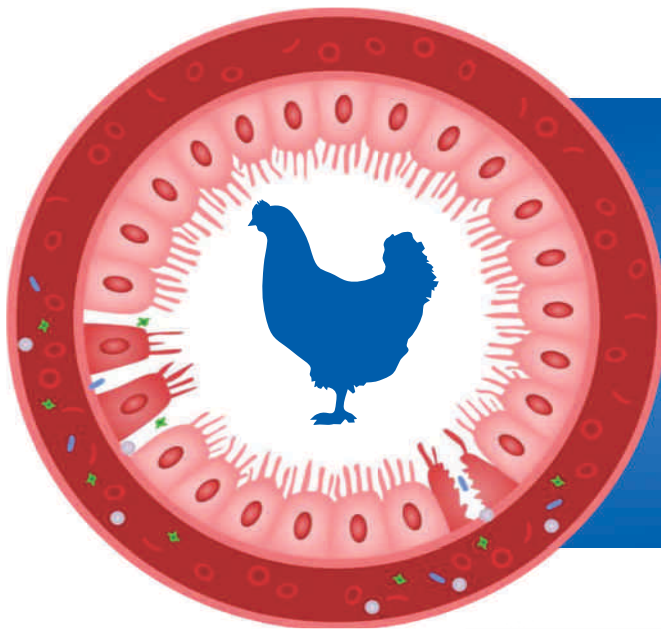
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## **The PAN India Broiler Coordination Committee meeting was held at Poultry India, Hitex City, Hyderabad**

News Reports : The PAN India Broiler Coordination Committee meeting was organized at Poultry India, Hitex City, Hyderabad during Exhibition on November 27, 2025. PAN India Broiler Coordination Committee convenor Mr.C.Vasanthkumar explained that Broiler placements are not going to drop, so the only way we can keep farmers in business is to increase consumption. Through our programs across India, we hope to increase awareness and push for more consumption.

PIBCC, together with other stakeholders, organized National Chicken Day on 16th November. Since 2021, November 16th is celebrated as National Chicken Day across India in memory of the father of the poultry industry, Padma Shri Dr. B. V. Rao Saheb, on the occasion of his birthday by Associations across many states in India, informed by Mr. Vasanthkumar Shetty, Convenor of the PAN India Broiler Coordination Committee. He also explained that the event marked the fifth consecutive year of nationwide consumer awareness activities promoting chicken consumption and its health benefits.

This year, in Pune, we distributed 2000 boiled eggs through our promotional vehicle. Leading brands such as

Venky's (India) Ltd, Baramati Agro, Japfa Comfeed, Pro Chicken and Vet Chicken by Yashraj Feeds offered 10% discounts, while Japfa extended additional online offers explained by Mr.Vasanthkumar.

Across India, 380 shops displayed banners of 'National Chicken Day' and offered discounts and free Eggs along with chicken, to customers to promote greater consumption.

We will be doing similar Chicken Promotion activities in 2026 explained Mr.C.Vasanthkumar.

- 1) In the month of March 2026 we may plan to conduct cooking competitions for eggs and chicken by engaging local chefs.
- 2) In May 2026 we can organize a comedy show and serve chicken dishes at a subsidized rate.
- 3) In July 2026 we can plan to organize a chicken festival and sell chicken biryani, chicken curry and tandoori at a subsidized rate.
- 4) In November 2026 to celebrate National Chicken Day we can plan to approach leading restaurants in the city to participate and offer chicken dishes at a subsidized rate.



# National Chicken Day 2025 November 16 and 17

## Commemorating the Birth Anniversary of Padmashri Dr. B. V. Rao, the Father of Indian Poultry.

Compiled by: PF&BA



**Note :** Since the last 5 years we have been celebrating National Chicken Day to Commemorate the birthday of Padmashri Dr.B.V.Rao, which falls on 06<sup>th</sup> November. This year, as a special case, we arranged the distribution of boiled eggs in 2 to 3 locations in Pune through our vehicle and distributed 2000 boiled eggs.

As part of the celebrations, selected shops supplied chicken products at subsidized rates. Companies like Venky's, Baramati Agro, Japfa, Anand Agro's Pro Chicken and Yash Raj Feeds Vet Chicken offered 10% discounts on their products. Japfa additionally extended special discounts on online purchases.

#### Additional Activities Across India

- **Karnataka** – Celebrations were conducted in 60-70 shops, where banners promoting National Chicken Day were prominently displayed.
- **West Bengal** - The state organised chicken recipe competitions, offered fried chicken at discounted rates, and actively engaged consumers in promotional activities.
- **Andhra Pradesh** – Andhra Pradesh displayed almost 100 banners across key markets and commercial areas, generating strong public awareness.



- **Maharashtra (Pune, Nashik & Sangli)** – Radio jingles were played in these regions to promote chicken consumption and spread awareness about National Chicken Day.
- **PAN India** – Across many states, shops displayed banners, offered discounts, and supported local promotions to encourage higher chicken consumption.

This initiative was supported by Poultry India and NECC for the distribution of chicken products and boiled eggs in Pune. Overall, the activity was carried out in 150 shops across the city. In Miraj, 30 chicken shops participated by displaying banners and selling chicken at a subsidized rate of Rs. 180/- per kg. Amravati also celebrated National Chicken Day by displaying banners and offering discounts on chicken purchases, receiving an excellent response from consumers.

We thank Mr. Udaysingh Bayas (President) – Poultry India, IPEMA for his financial support.



We also express our gratitude to Mrs. Anuradha Desai, who sanctioned 50,000 eggs for distribution (2 eggs free per kg of chicken purchased). Numerous chicken shop owners supported and participated actively in this initiative.

With Best Regards,

Vasanthkumar C. Setty  
Convenor  
PAN India BCC



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CHICKEN EGGS PRESS



**National Chicken Day 2025 WEST BENGAL**  
Padmashri Dr. B. V. Rao Birth Anniversary



Compiled by: PF&BA



**National Chicken Day 2025 KARNATAKA**  
Padmashri Dr. B. V. Rao Birth Anniversary



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**National Chicken Day 2025 KARNATAKA**  
Padmashri Dr. B. V. Rao Birth Anniversary



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**National Chicken Day 2025 MAHARASHTRA**  
Padmashri Dr. B. V. Rao Birth Anniversary



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**National Chicken Day 2025 WEST BENGAL**  
Padmashri Dr. B. V. Rao Birth Anniversary



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**National Chicken Day 2025 KARNATAKA**  
Padmashri Dr. B. V. Rao Birth Anniversary



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**National Chicken Day 2025 KARNATAKA**  
Padmashri Dr. B. V. Rao Birth Anniversary



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**National Chicken Day 2025 MAHARASHTRA**  
Padmashri Dr. B. V. Rao Birth Anniversary



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National Chicken Day 2025  
Padmashri Dr. B. V. Rao Birth Anniversary

**MAHARASHTRA  
PUNE**



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National Chicken Day 2025  
Padmashri Dr. B. V. Rao Birth Anniversary

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National Chicken Day 2025  
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**MAHARASHTRA  
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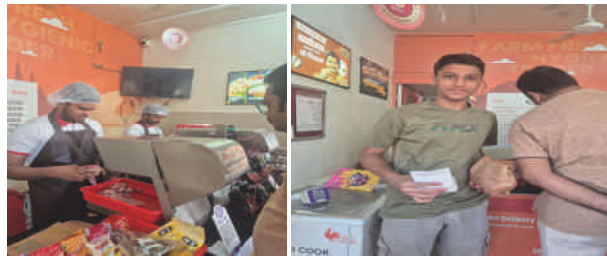


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National Chicken Day 2025  
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National Chicken Day 2025  
Padmashri Dr. B. V. Rao Birth Anniversary

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The Chicken Festival is conceptualised by Mr.Vasanth Kumar C.Setty – Convener - PAN India Broiler Coordination Committee, & Mr.Madan Mahan Maity President of West Bengal Poultry Federation. It is conducted in the states of Andhra Pradesh, Assam, Chattisgarh, Karnataka, Maharashtra, Tamil Nadu, Telangana, West Bengal compiled & Coordinated by : Mr.Sanjay Thopte – PF&BA (MH).



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## **Bhuvana Nutribio Sciences, India & Andres Pinaluba S.A. (APSA) Spain, Successfully Hosts 2nd Technical Seminar under Bhuvana – Pinaluba Tech Series in Raipur**



Raipur, Chhattisgarh | Dec 15, 2025

Bhuvana Nutribio Sciences, India & Andres Pinaluba S.A. (APSA) Spain, successfully organized its 2nd Technical Seminar under the Bhuvana – Pinaluba Tech Series on 15th Dec 2025 at Hotel Sayaji. The event marked an important milestone in Bhuvana - Pinaluba's ongoing efforts to promote science-led, practical solutions for the poultry industry.

The seminar commenced with a Ganesh Vandana, followed by a welcome address by Dr. Nikhil Adagale, General Manager, Bhuvana. In his address, he emphasized the company's strong commitment to advancing poultry health through innovation, research, and technical excellence.

The keynote session was delivered by Dr.



Rais Rajpura, Assistant Professor at the Department of Animal Science, Anand Agricultural University, Anand, Gujarat and an internationally experienced Technical Advisor. His presentation on "Integrated Approach to Gut and Respiratory Health in Poultry" offered valuable scientific insights and practical strategies aimed at improving flock performance and overall farm profitability.

Following the keynote address, Dr. Jyoti Kumar Mainali, Area Manager-Asia of Andres Pinaluba S.A. (APSA), presented an overview of the company's corporate profile. She highlighted its European-origin Tiamulin 10% (APSAMIX TIAMULIN 10%), and other research-driven products like APSAVIT OVOSMART, APSA MIOCHEM 20, and APSA AMINOVIT, developed through robust R&D





capabilities.

Further, Dr. Nikhil Adagale shared insights into the Bhuvana journey, outlining the organization's core strengths in gut health management and showcasing innovative tablet-based solutions designed to address critical poultry health challenges. (GutPROP WS)

The seminar witnessed active participation from key poultry stakeholders and protein producers from Chhattisgarh and Odisha. The interactive technical discussions were highly appreciated for their depth, practical relevance, and industry-focused approach.

Key protein producers in attendance included:

Mr. S. S. Brahmanekar, Mr. Achin Banarjee, Mr. Dhanraj Banarjee, Mr. Mukesh Brahmanekar, Mr. Govind Chandrakar, Mr. Virendra Chahal, Mr. Sachidanand Meher, Mr. Nalin Meher, Mr. Binaya Meher, Mr. H.



Suryakumar, Mr. Yashwant Chandrakar, Mr. Rajesh Chahal, Mr. Muhamad, Dr. Manoj Shukla, Dr. Amit Yeskal, Dr. Bijendra Sahu, Dr. Shlok Sahu, Mr. Gopal Ugra, Mr. Suman Mishra, Mr. V. Ramna, Mr. Shivdev Singh Kalkat, along with other esteemed protein producers.

The event served as a strong branding and engagement platform for Bhuvana Nutribio Sciences India & Andres Pentaluba S.A. (APSA) Spain, while opening new business opportunities across the eastern and central regions of India. Bhuvana - Pentaluba expressed its sincere gratitude to all participating protein producers for their active involvement and continued encouragement toward its mission of delivering science-backed poultry solutions.

Team Bhuvana - Pentaluba!





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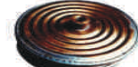
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# Egg Drop Syndrome (EDS 76)

Dr. Suraj Amrutkar<sup>1</sup>, Dr. Suhas Amrutkar<sup>2</sup> and Dr. Bharti Dehmukh<sup>3</sup>

1. Assistant Professor, Dept. of L.F.C., F.V.Sc. & A.H., SKUAST-J, Jammu, Jammu & Kashmir

2. Assistant Professor, Dept. of Animal Nutrition, PGIVAS, Akola, MAFSU, Maharashtra

3. Assistant Professor, Dept. of AGB, College of Veterinary Science., GADVASU, Ludhiana, Punjab

## Introduction:

Egg drop syndrome (EDS) is a viral disease primarily affecting laying hens, characterized by a significant drop in egg production and a decline in eggshell quality. The disease is caused by the Egg Drop Syndrome Virus (EDSV), an avian adenovirus. Outbreaks can last for several weeks and lead to substantial economic losses for poultry farmers. Egg drop syndrome is a disease of laying hens. Since its first description in 1976 in The Netherlands (Holand), the egg drop syndrome has become a major cause of loss in egg production throughout the world. There is sudden drop in egg production around the peak. The syndrome is characterized by otherwise healthy birds producing thin-shelled or shell-less eggs.

The disease is caused by a group III adeno virus. It is non-enveloped and contains DNA. Only one serotype is recognized. Once common, the disease is now relatively rare. Although disease outbreaks have been recorded only in laying hens, the natural hosts for egg drop syndrome are ducks and geese. The virus got introduced into the chicken, probably through a contaminated vaccine grown in ducks cells. In the laying hens, the virus usually remains latent until birds come to peak production.

## Causes:

- EDS is caused by the Egg Drop Syndrome Virus (EDSV), an adenovirus.
- The virus can be transmitted through contaminated eggs, contact with infected birds, and contaminated fomites (like egg trays).

- Wild waterfowl, such as ducks and geese, can also be carriers of the virus and contribute to its spread.

## Spread:

The disease occurs in three patterns

- 1) In the classical form, the breeders are infected, and the main method of spread is vertical transmission. That is, the virus is passed from parents to progeny. However, infected chicks excrete no virus and usually show no serological evidence of the disease until egg production reaches 50%. At this stage, virus is reactivated and excreted, resulting in rapid lateral spread.
- 2) The second pattern (endemic form) results from lateral (horizontal) spread between flocks. This is mainly due to the contaminated eggs or trays, and is usually seen in commercial egg layers. In India, once 32.6% of poultry flocks were found to be infected. Laying flock of any age may be affected. Lateral spread of virus is slow and occurs at intervals. It may take up to eleven weeks to spread through a cage house. Spread of virus between birds on litter is usually faster, but is slow in cages.
- 3) The third (Sporadic) form occurs in occasional isolated cases, and is also seen in any age or breed of birds. It results from introduction of infection from ducks, geese or any infected wild birds, either through direct contact or indirectly through contaminated water.

Although faeces do not contain virus, droppings are contaminated because of the exudates (inflammatory fluid) from the oviduct. Lateral spread between

flocks through contaminated people or substances can occur, but does not appear to be a major risk. Other methods of spread could be contaminated needles and possibly, biting insects.

#### Symptoms:

- Reduced egg production: Hens may lay fewer eggs, and the drop in production can be rapid and substantial (10-40%).
- Abnormal eggshells: Eggs may be thin-shelled, soft-shelled, or even shell-less.
- Loss of shell color: Brown eggs may lose their characteristic pigmentation.
- Other potential signs: Some birds may exhibit diarrhea or watery egg whites, according to some sources.

The first symptoms are loss of shell strength and colour in pigmented eggs. This is soon followed by thin shelled, soft-shelled and shell less eggs. Eggshells may show mineral deposits. However, deformed eggs and eggs with ridges are not a feature. It is not clear whether there is an actual drop in egg numbers or whether the drop in production is due to affected eggs being eaten or lost in litter. The birds are normally healthy, but sometimes, they appear slightly depressed. Diarrhea has been described, but there is probably an excess of oviduct secretion in the dropping.

Classical form is characterized either by a drop in egg production (by 40 to 50%) around peak, or by a failure to achieve or hold expected production. In the first case, the flock has no detectable antibody before the drop in production.

In the second case, a small percentage of the flock develops antibody during the growing period. The birds with antibody reduce the spread of virus, so that there is prolonged period of some birds having egg drop syndrome. A similar situation is observed when the virus is spread laterally in a cage

unit.

#### Impact:

- EDS can cause significant economic losses due to reduced egg production and lower egg quality.
- Outbreaks can last for several weeks, impacting the productivity of laying hen flocks.
- While mortality is typically low, the disease can be costly for poultry farmers due to decreased revenue.

#### Postmortem findings:

Inactive ovaries and a decrease in the size of oviducts (atrophy) are usually the postmortem findings. But these are not always present.

#### Diagnosis:

- A sudden fall in egg production, associated with thin shelled, soft shelled and shell less eggs in a flock of healthy birds, is almost diagnostic. Shell-less eggs are usually a feature, but are often missed because birds eat them. Therefore, an inspection should be made early in the morning before eggs can be eaten. If birds are on litter, a careful search will show egg membranes. While shell less, soft shell and thin shelled eggs are characteristic, deformed eggs and eggs with ridges are not a feature. In an infected flock in which vertical transmission has occurred, most if not all cases occur around peak production, but flock of any age can be infected by lateral spread.
- Detection of antibodies against egg drop syndrome virus by the haemagglutination inhibition (HI) and serum neutralization tests. ELISA is also useful.
- Virus isolation is difficult because it is often not easy to identify the correct bird for taking the sample.

#### Vaccination:

Inactivated vaccines are available and can be

effective in preventing clinical disease.

### Biosecurity:

Strict biosecurity measures, including hygiene and disinfection, are crucial to prevent the spread of the virus.

### Avoiding contact with wild birds:

Preventing contact between chickens and wild waterfowl can reduce the risk of sporadic outbreaks.

### Cleaning and disinfection:

Thoroughly cleaning and disinfecting equipment, especially egg trays, can help control the spread of the virus.

### Early detection:

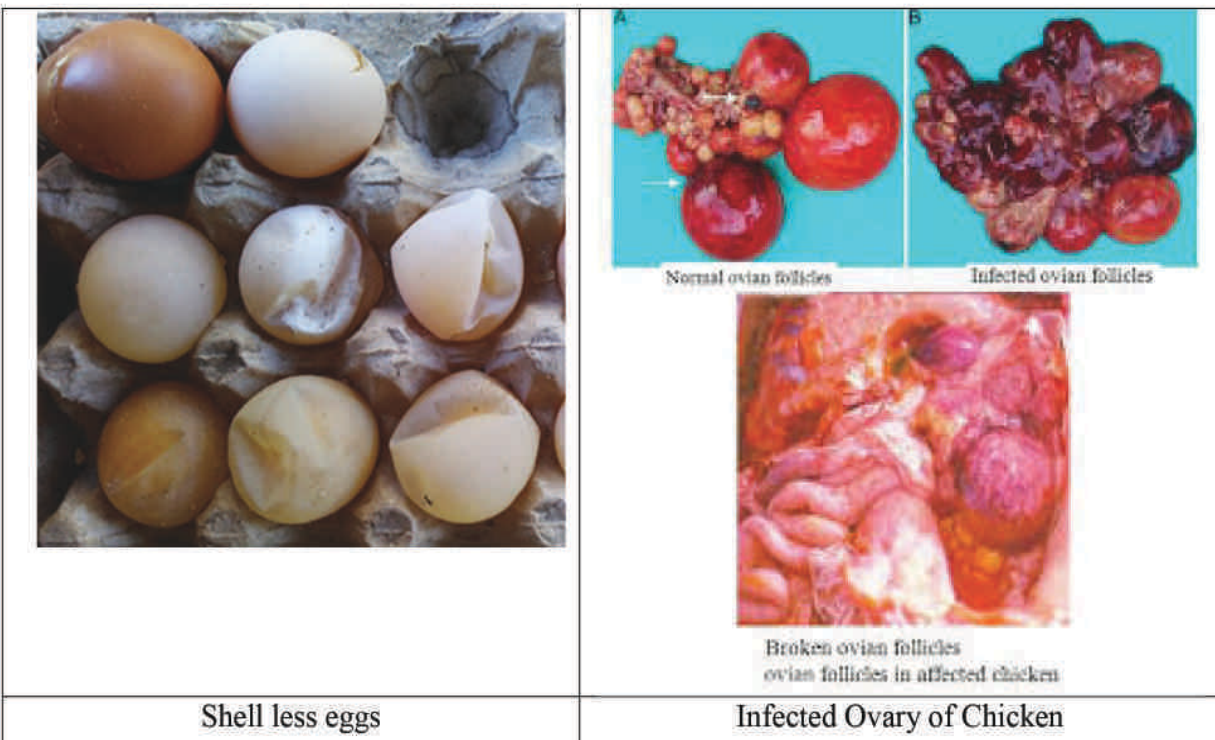
Regular testing for EDSV antibodies can help identify infected flocks early on.

### Treatment:

There is no specific treatment for EDS; therefore, prevention is key. Various treatments have been tried, such as vitamins, increasing calcium or proteins in the ration, but no effect could be observed.


### Control:

1. Disease prevalent in a particular area can be controlled by vaccination. Efficient killed vaccines are available. These are given intra-muscularly between 14 and 18 weeks of age and are usually combined with other viruses, such as Ranikhet disease virus or infectious bronchitis virus.
2. Since the main method of horizontal spread is through the infected egg and tray, wherever possible plastic trays should be washed and sterilized before returning to the farm. Other methods of spread, such as contaminated transport, people and needles, are much less important. Spread by air is not important.
3. Strong biosecurity should be practiced. Visitors should not be permitted to enter poultry house.
4. The sporadic form can be prevented by ensuring that chicken flocks do not come into contact with other birds, especially waterfowl.



**Broiler Lifting Rates for the month of DECEMBER\_2025**

Place	1	2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Hyderabad	147	147	147	147	147	147	156	156	156	156	156	156	156	156	156	156	156	156	156	156	156	150	140	140	140	135	135	135	135	135		
Karimnagar	147	147	147	147	147	147	156	156	156	156	156	156	156	156	156	156	156	156	156	156	156	150	140	140	140	135	135	135	135	135		
Warangal	147	147	147	147	147	147	156	156	156	156	156	156	156	156	156	156	156	156	156	156	156	150	140	140	140	135	135	135	135	135		
Mahaboobnagar	147	147	147	147	147	147	156	156	156	156	156	156	156	156	156	156	156	156	156	156	156	150	140	140	140	135	135	135	135	135		
Kurnool	147	147	147	147	147	147	156	156	156	156	156	156	156	156	156	156	156	156	156	156	156	150	140	140	140	135	135	135	135	135		
Vizag	131	133	133	143	143	143	143	143	148	148	148	148	143	143	145	145	145	145	145	145	145	140	140	135	135	135	135	135	135	135		
Godavari	145	147	147	152	152	152	152	152	152	152	152	152	152	152	157	157	157	157	157	157	157	150	150	143	143	143	143	143	143	143		
Vijayawada	145	147	147	152	152	152	152	152	152	152	152	152	152	152	157	157	157	157	157	157	157	150	143	143	143	143	143	143	143	143	143	
Guntur	150	152	152	157	157	157	157	157	157	159	159	159	159	159	164	164	164	164	164	164	164	164	157	150	150	147	143	143	143	143	143	
Ongole	150	152	152	157	157	157	157	157	157	159	159	159	159	159	164	164	164	164	164	164	164	164	157	150	150	147	143	143	143	143	143	143
Chittoor	148	148	148	151	151	153	153	153	155	158	158	160	162	164	164	164	164	164	164	164	164	150	144	146	146	132	124	124	126	126	126	
Nellore	153	153	153	156	156	158	158	158	160	163	163	165	167	169	169	169	169	169	169	169	169	155	149	151	151	137	129	129	131	131	131	
Nammakkal	106	108	110	110	110	112	114	114	114	114	114	114	116	116	116	118	118	118	120	120	120	120	124	126	128	128	130	130	133	133	133	



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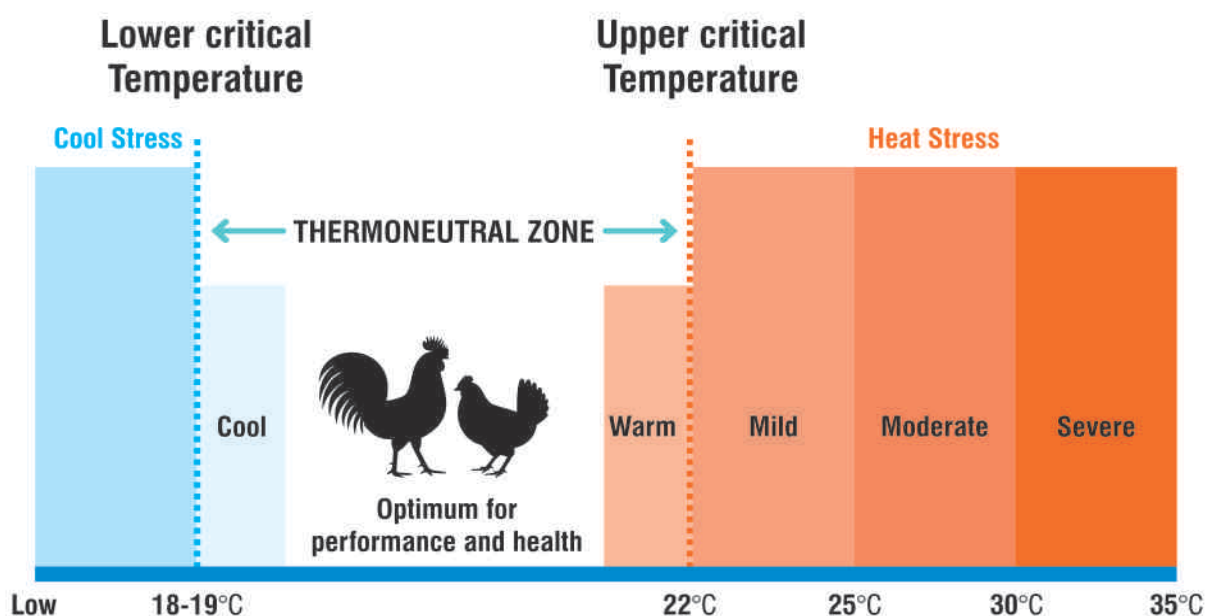
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# Managing Heat Stress in Poultry: A Comprehensive Guide

Authors: Dr. Gopal Potdar & Dr. Hardik Patel  
Regen Biocorps AHI Pvt. Ltd.

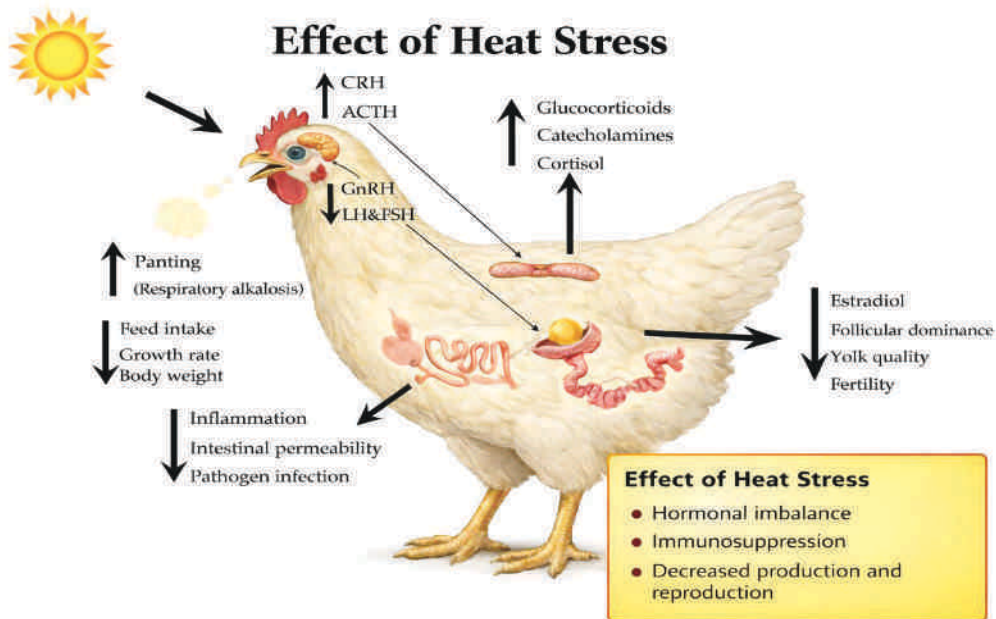
Rising global temperatures present significant challenges for poultry producers worldwide. When birds experience prolonged exposure to elevated temperatures, their health and productivity suffer considerably. This condition becomes particularly concerning when temperatures climb beyond 25-30°C, especially in humid conditions. Birds struggle to regulate their internal body temperature, leading to decreased performance and increased mortality. Effective management requires a multifaceted approach combining proper housing, nutrition, and supportive supplements.



## The Physiology of Heat Stress

Birds maintain constant body temperatures through various cooling mechanisms. Unlike mammals, poultry lack sweat glands and rely primarily on respiratory evaporation and behavioural adaptations to dissipate heat. When environmental temperatures exceed their cooling capacity, birds experience thermal distress. Observable signs include accelerated respiration, reduced activity, drooping wings, and changes in comb coloration. Without intervention, these symptoms progress can severe dehydration, metabolic imbalances, and potentially fatal outcomes, with mortality reaching 10-20% in extreme cases.

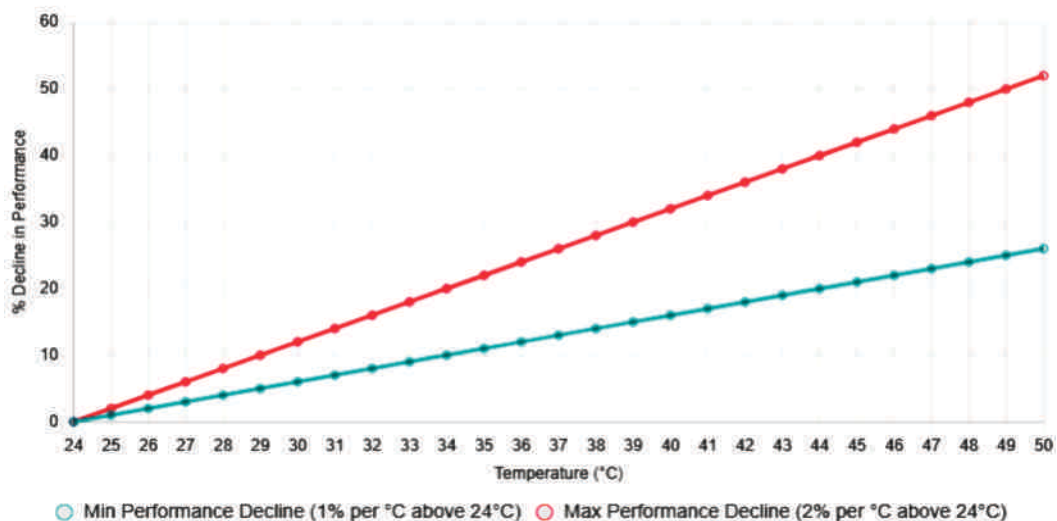
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### Impact on Meat Birds

Broiler chickens face heightened vulnerability due to their rapid growth rates and dense plumage. Thermal stress can diminish feed consumption by 20-30%, directly compromising weight gain and feed conversion efficiency (FCR). Birds redirect metabolic energy from muscle development to temperature regulation, resulting in inferior carcass quality characterized by reduced breast meat yield and increased moisture loss. Research indicates that each degree rise above 24°C correlates with 1-2% decline in performance.

**Performance Decline in Broilers Due to Heat Stress (24-50°C, Humidity >60%)**

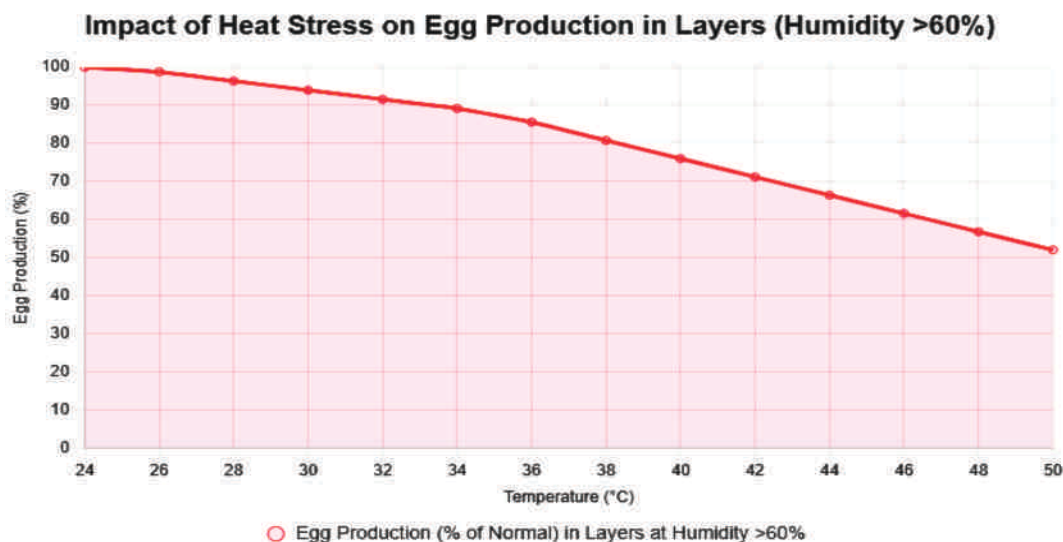


Effective management includes reducing bird density to 8-10 per square meter (depending upon the age), maintaining continuous air circulation, and implementing evaporative cooling

systems. Adjusting feeding schedules to cooler periods and supplementing with electrolyte solutions, Vit. C, Betaine & Chromium helps to maintain adequate nutrient intake.

### Effects on Egg-Laying Birds

Layer hens experience heat-related challenges through disrupted reproductive physiology. Elevated temperatures interfere with hormone production, reducing follicle maturation and causing 15-25% drops in egg production. Shell quality deteriorates as calcium metabolism becomes impaired, producing thinner, more porous shells prone to breakage and bacterial penetration. Additionally, immune function weakens, increasing disease susceptibility and shortening productive life.

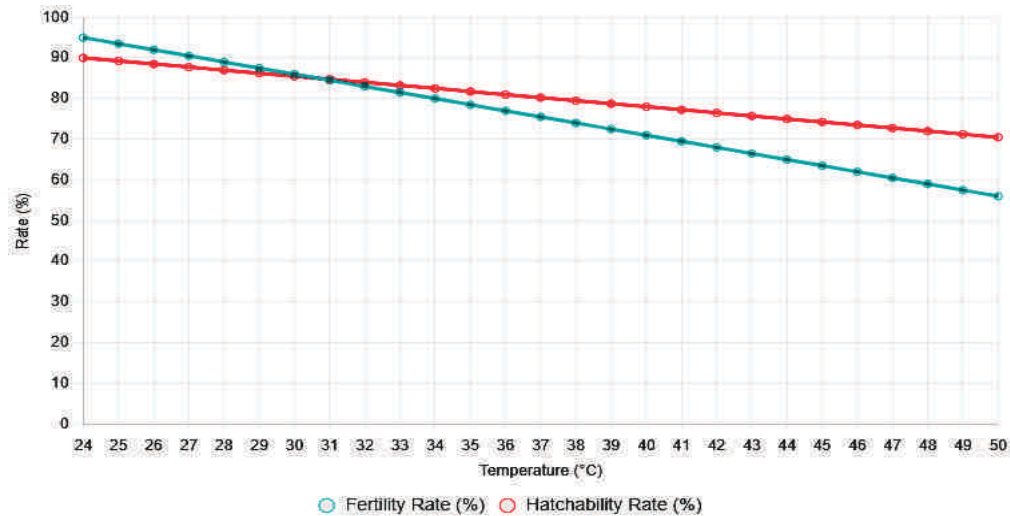


Recommended interventions include adequate shade provision, humidity control through misting (maintaining levels below 70%), and constant access to cool water (18-20°C). Dietary modifications such as moderate protein reduction (16-18%) minimize metabolic heat production, while antioxidant vitamins and other supplements support cellular defense mechanisms.

### Challenges for Breeding Flocks

Breeder birds face compounded difficulties as they supply future generations. Heat exposure compromises male sperm production and female egg development, reducing fertility rates by 10-20% and hatchability by 5-15%. Semen quality declines while embryonic mortality increases due to inadequate egg protein formation. These birds, typically older and heavier, generate additional metabolic heat, intensifying their vulnerability.

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Specialized management includes corrective diet with multi-supplement, dedicated cooling areas for males, modified lighting programs to extend feeding opportunities during cooler hours, and selection of heat-resistant genetic lines. Careful monitoring of body condition and incubation parameters ensures continued breeding success.

### Comprehensive Management Framework

Successful heat stress mitigation requires integrated strategies:

#### Environmental Control

- Install efficient ventilation systems and evaporative cooling
- Apply reflective roofing materials
- Prevent overcrowding

**Results:** 5-10°C temperature reduction and improved air quality

#### Water Management

- Provide 2-3 times normal water availability
- Use efficient drinking systems
- Maintain optimal water pH

**Results:** Prevents dehydration and enhances nutrient uptake

#### Nutritional Adjustments

- Offer easily digestible feed forms
- Include osmolytes, electrolytes and supplements

**Results:** Reduces heat production and supports electrolyte equilibrium

#### Monitoring Protocols

- Implement thermal imaging technology
- Track behavioural indicators
- Maintain preventive health programs

**Results:** Early problem detection and loss prevention

Combined implementation can recover 70-80% of heat-related performance losses.

### **Nutritional Support Solutions**

While environmental modifications provide an essential foundation, targeted nutritional interventions address the underlying physiological disruptions caused by heat stress. Advanced anti-stress formulation such as **THERMOGARD** is specifically designed to protect birds during high-temperature challenges.

**THERMOGARD** combines phytogetic extracts, essential minerals, electrolytes, osmolytes, and antioxidant vitamins to counter heat-induced oxidative damage and metabolic imbalance.

#### **Key benefits of THERMOGARD include:**

##### **Fluid and Mineral Balance:**

Replenishes critical electrolytes lost through panting and respiratory cooling, preventing dehydration and digestive upset—particularly important for fast-growing broiler birds.

##### **Appetite and Immune Support:**

Helps restore feed intake and strengthens immune response, crucial for sustaining egg production, shell quality, and reproductive efficiency.

##### **Metabolic pH Regulation:**

Corrects respiration-induced alkalosis, stabilizing acid–base balance for optimal nutrient utilization across broiler, layer, and breeder flocks.

##### **Recommended application rates for THERMOGARD:**

Liquid form: Preventive use at **1 ml per 2 L of water**; during heat stress **1 ml per 1 L of water**  
Powder form: **100-250 g per metric ton** for broilers and layers; **250-500 g per metric ton** for breeders

Available in multiple pack sizes, **THERMOGARD** integrates seamlessly into daily farm management. Poultry producers report **10-15% improvement in performance parameters** during peak summer stress when using **THERMOGARD** as part of a comprehensive heat management strategy.

### **Conclusion**

Managing heat stress in poultry demands a proactive, integrated approach that addresses environmental, nutritional, and physiological challenges. By implementing effective ventilation, water management, and dietary adjustments—such as reducing protein levels and incorporating electrolytes producers can mitigate the adverse effects on broilers, layers, and breeders, including reduced feed intake, egg production declines, and fertility issues. Supplements play a vital role in restoring electrolyte balance, boosting immunity, and countering oxidative stress, potentially recovering up to 80% of performance losses. As global temperatures continue to rise, prioritizing these strategies not only enhances flock welfare and productivity but also ensures the long-term viability of poultry operations in an increasingly unpredictable climate.

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**Ultimate Solution for Mycoplasmosis**

**Reaching the Right Place for the just Right Results.**

**Tylvalosin Tartrate equivalent to Tylvalosin 625 mg per gram**

### **Dose Rate:**

Through DW: 20-25mg/ kg BW or 1gm/25 kg BW



For further information please contact:

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## Early Protection in Broilers against Catastrophic Genotype XIII Newcastle Disease Virus



### Unique Qualities :

-  High Antigenicity - > 1000 HAU (Hemagglutination Virus Units)
-  Low volume - 0.1 ml / chick.
-  Fast and high immune response.
-  Live + Killed vaccines - provides both mucosal and cellular immunity.

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