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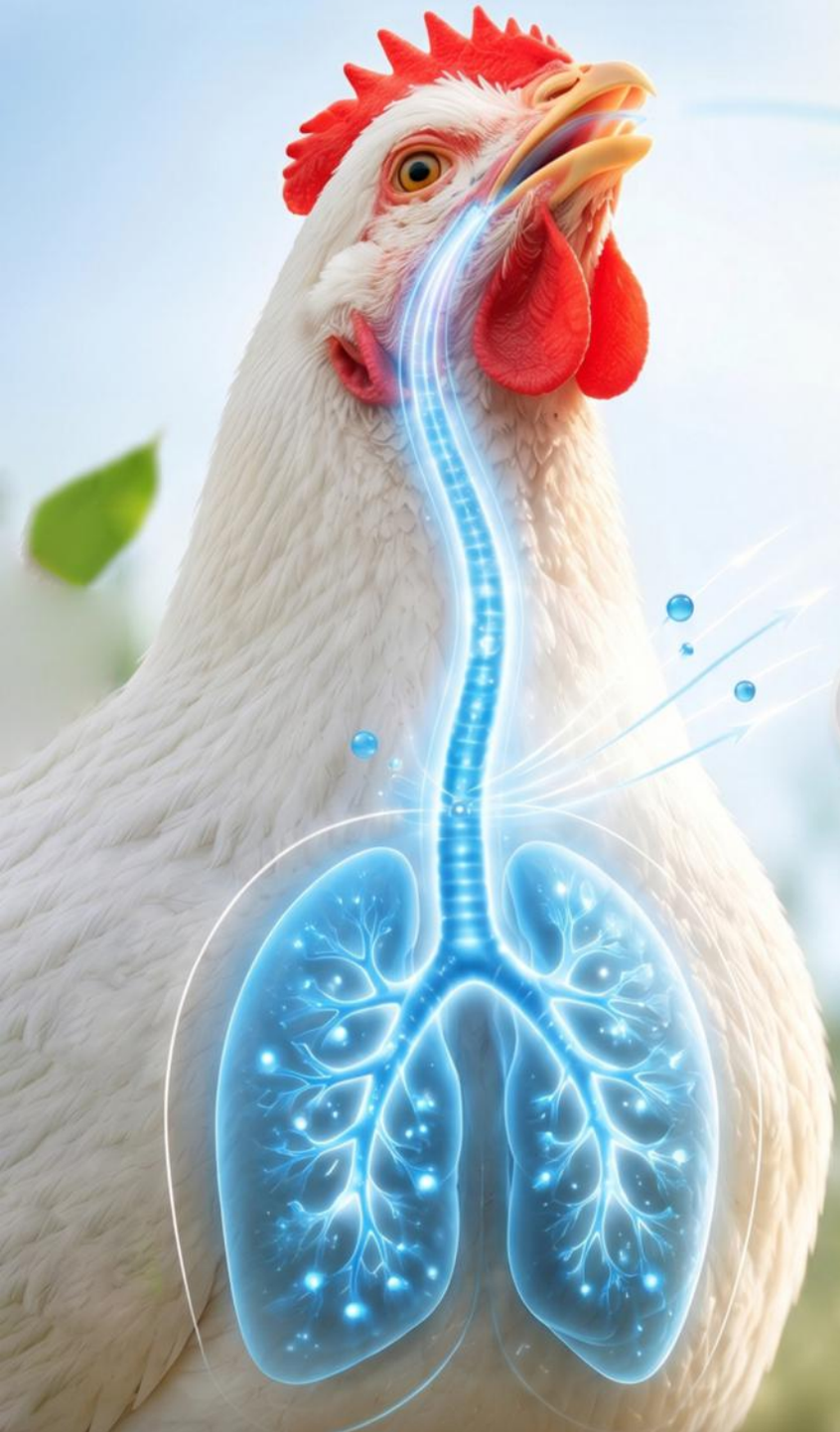

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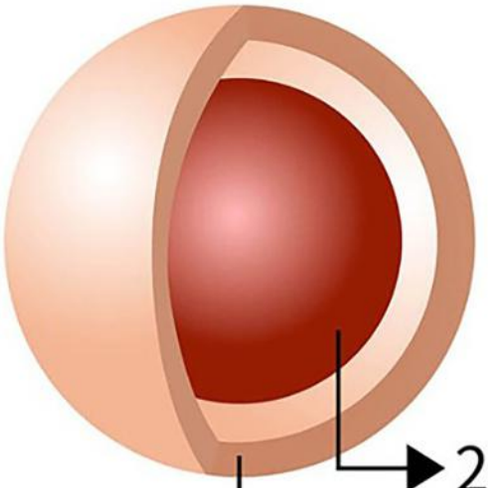

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Treating Life Naturally

From the Editor's Desk

The Gen Z kit!

Navi Pillay was named the 2026 Nobel Peace Prize winner. Navi Pillay is a South African-born Indian of Tamil origin. She has fought for peace, women's rights, and Gaza; she has been recognised purely on the merit of her performance. The most disappointed person with the Nobel Peace Prize is the president of America – who demands that it belongs to him. He ended up criticising Navi Pillay – he also threatened Norway for refusing to accept his plea against his unilateral claims of bringing peace in Russia-Ukraine, Israel-Iran, India-Pakistan, etc.

The deep state has its own plans, which it successfully used in overthrowing governments in the Maldives, SriLanka, Myanmar, Bangladesh, Nepal, and Venezuela and is working hard to do that in India. The template involves using social media to hardwire young minds and Gen Z to create violence, targeting the ruling government, disrespecting the constitution, condemning the Supreme Court, and opposing the rule of law. Once the anarchy is created, then it can be taken over by them. This will only destroy the country. We can see the condition of all the countries mentioned above; today, all countries subject to regime change – Myanmar, Sri Lanka, Bangladesh, and Nepal- have all collapsed, and unless we are cautious, India will face a grave risk.

It is not about the minority of people causing unrest. It is about the silence of the others who refuse to raise their voice against this evil.

Elon Musk blatantly attacks the Indian government and ridicules our Prime Minister. This is just because Starlink license approval has been pending for five years, which is causing frustration. His intolerance is misplaced because even Airtel and other operators are also pending for the same period of time to undergo the process of security clearance.

India is a huge market, and Starlink cannot ignore it at all costs. But he cannot explain why his greatest competitor, BYD from China, is banned in America – the usual double standards!

Newcastle disease returns in Hungary and Europe after 30 years. A lesson for India to focus on farm hygiene and immunity-related programs. Wise and scientific use of vaccines is necessary.

India has demonstrated a meteoric rise in egg consumption from five eggs in the year 1960 to 106 in 2026. Of course, we are still way behind the scope to double the consumption in the future.

The invaluable future of any Nation is its Gen Z. The master manipulators are using this powerful force to misguide and manipulate them emotionally using social media.

Gen Z needs to realise that the consequences of their action are damaging to the self and the nation ultimately. They need understanding, patience, and guidance to bring them back on track – which indeed is a challenging task.

Editor

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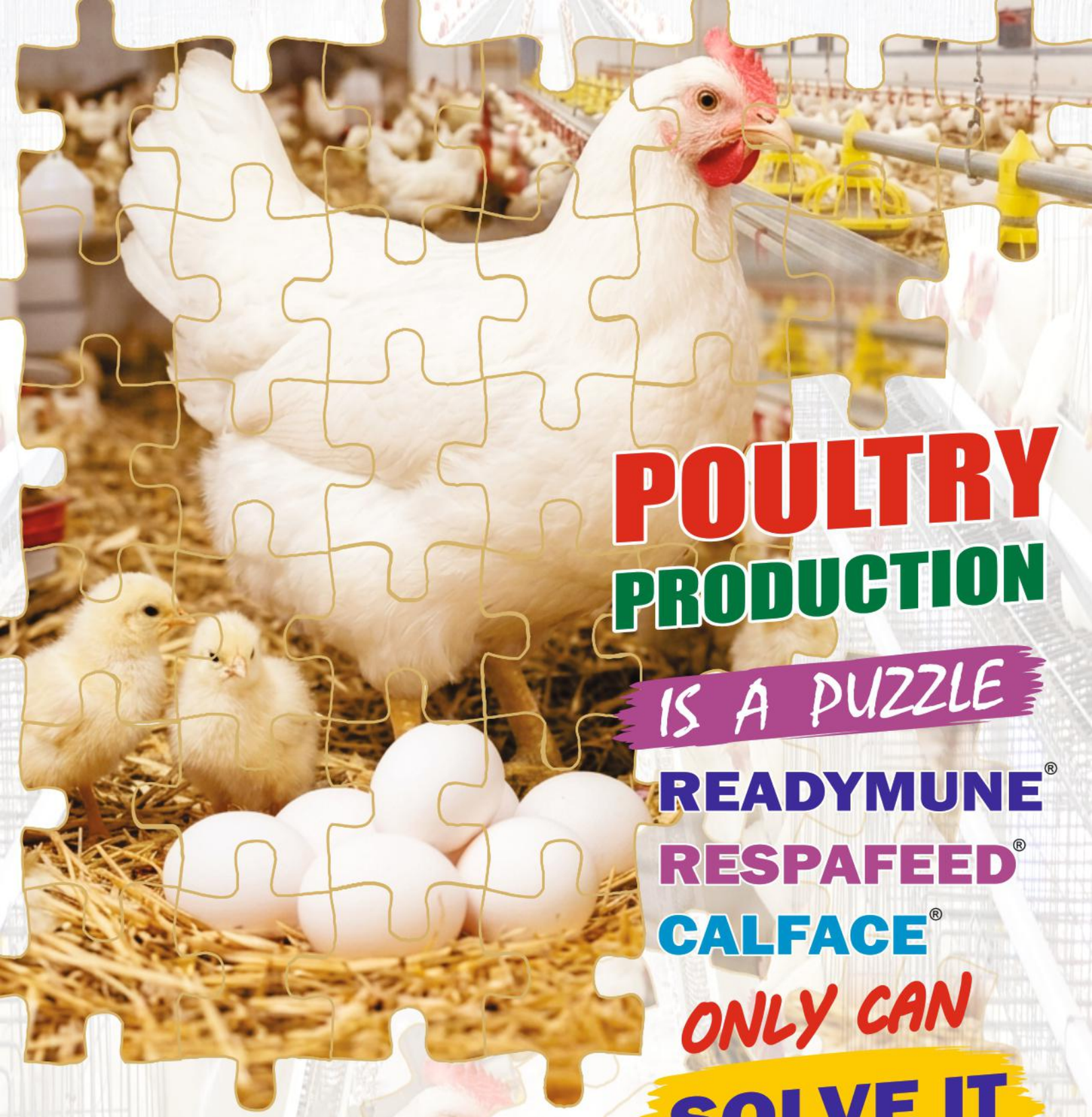

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Legend SERIES 37

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इन्काउन्टर नं. 282 :- पोल्ट्री में अधिक चर्चा भविष्य की, वर्तमान की समस्याओं पर कौन चर्चा करेगा?

पोल्ट्री उद्योग के प्रारम्भिक 4–5 दशक तक जब भी कोई समस्या मामूली हो या ज्वलन्त हो तुरन्त उस पर सेमीनार किया जाता, प्रतिष्ठित वैज्ञानिक बुलाये जाते और पोल्ट्री इन्डस्ट्री से जुड़े सभी लोग होते लम्बी चौड़ी चर्चा होती – समाधान निकलता एवं उसे व्यवहारिक शक्ल दी जाती। पिछले 2 से 2.5 दशक से देखा जा रहा है वर्तमान पर चर्चा कम और भविष्य पर अधिक, ऐसा परिवर्तन क्यो? शायद हमारे उपर सरकारों की छाप पड़ गई है। सरकार में आने से पहले कहा गया ''बस 6 महीने दे दीजिये हम देश की काया पलट देंगे''। फिर कहा गया ''पूरे 5 साल दे दीजिये फिर देखिये देश को हम कहां पहुंचा देते है''? और अब बात हो रही है ''सीधे 2047 की जब हम आजादी के 100 साल मना रहे होंगे, देश 'विश्व गुरू' बन जायेगा।'' हमारी पोल्ट्री भी सदियों से उम्मीद पर चल रही है और इसमें कोई शक नहीं समय समय पर उतार चढ़ाव होता रहता है, कभी निराश फिर आशा और इस प्रकार आगे ही बढ़ते जा रहे हैं। यह सब किस कीमत पर हो रहा है स्पष्ट है। छोटे किसानो की कीमत पर हो रहा है। पहले हम उनके फलते फूलते आशाओं पर पानी फेर कर निराशा में ढकेलते है फिर वहां से निकाल कर इन्टेग्रेशन रूपी 'आशा' की ओर ले आते है। चलिये इससे उनका काम–काज, दाल–रोटी तो चल ही रही है।

अब जल्दी ही लगभ 100 प्रतिशत इन्टेग्रेशन पूरे देश में हो जायेगा। कुछ बड़े बड़े इन्टेग्रेटर है जो चिक्स फीड स्वयं बनाते हैं और अपने किसानों को देते हैं। यहा तक कि दवा भी देते है, और उनकी बाजार व्यवस्था स्वयं करते है। अब इन्टेग्रेशन हर शहर में कई करने वाले पैदा हो गये है। जो चिक्स और फीड बाहर से खरीद कर अपने किसानों को देते है। निश्चय ही इनको लाभ कम होता होगा। फिर भी सफलता और असफलता के बीच आगे बढ़ रहे है।

जैसे पहले लिखा है कि अब भविष्य की बात ज्यादा होने लगी है और वर्तमान पर चर्चा कम हो रही है। इसका शायद एक कारण प्रमुख है, यदि वर्तमान पर चर्चा होगी तो कुछ लोगो की जो हमारे पोल्ट्री उद्योग से किसी ना किसी रूप से जुड़े है एवं अर्ध नेता है उनकी 'पोल–पट्टी' खुल जायेगी। ऐसा लगता है, पोल्ट्री उद्योग में 'चतुर ज्योतषी' काफी घुस गये है और हमें अपने 'तोते से कार्ड' निकालवा कर भविष्य के भवर में टहलाते रहते हैं। अभी **(A.I.)** के जन्में कितने दिने हुये है परन्तु पोल्ट्री में उसकी उपयोगिता पर कई लेख आ चुके है। इसकी उपयोगिता एवं दुरउपयोगिता पर भी काफी चर्चा हो रही है। स्वयं मस्क, एवं उनके मित्रगण इस पर चर्चा कर रहे हैं, इस रिसर्च को 'स्लोडाउन' करने की बात करते है। कारण बहुत से हो सकते हैं। प्रमुख है इसका दुरपयोग जो भविष्य में विनाशकारी ही बनेगा। सेलफोन का परिणाम आपके सामने है। जबसे यह आया है पूरी जनरेशन क्या बच्चे, जवान, बूढ़े सभी आलसी और निक्कमे होते जा रहे है – हमारा भविष्य क्या होगा, जरा विचार करें।



जिन वर्तमान की समस्याओं पर यहां चर्चा करनी है वह सब वर्तमान तो है ही परन्तु वास्तव में देखा जाये तो सदियों से चली आ रही हैं। इस पर हमने कभी भी गम्भीरता से विचार विमर्श नहीं किया और ना ही एक जुट होकर सुधार लाने का प्रयत्न किया। इन समस्याओं पर क्रमशः बात करते हैः–

1. सबसे गहन समस्या है 'बाजार व्यवस्था' की जो प्राचीनतम समस्या है एवं सैंकड़ों सदियों पुरानी समस्या है जिसका संयोजित समाधान आज तक नही हो सका है। भारतीय कृषि व्यवस्था तो बहुत पुरानी है जिसमें खेतिहर किसान सबसे अधिक है, फिर पशुपालक आते है। पोल्ट्री उद्योग तो लगभग 100–120 वर्षों पुरानी है। पोल्ट्री के पढ़े लिखे एवं सक्षम लोग काफी हैं फिर भी किसी ने इस समस्या से जूझने एवं समझने का प्रयत्न भी नहीं किया। सभी आये तो केवल उत्पादन पर ही जोर दिया। बाजार व्यवस्था प्राचीन समय से जिन लोगों के हाथों में थी उन्हीं के हाथो में रही। यह जरूर हुआ अब की जनरेशन पहले के मुकाबले जहां अधिक चतुर ही नहीं चालाक भी अधिक है। सरकार ने बहुत से उत्पाद के बाजार व्यवस्था में हस्तक्षेप किया है जैसे अनाज, दूध, मछली, फल, फूल एवं सब्जी इत्यादि परन्तु पोल्ट्री पर कहीं हाथ ही नहीं लगाया। हाथ कहीं लगाया तो वह भी सप्ताहों के लिये इसकी बिक्री पर बेन लगा कर वह भी साल में एक बार नही कई कई बार।

इस मुद्दे पर कभी भी सरकार से गम्भीरता से बात नहीं हुई कि बाजार व्यवस्था को कैसे सुचारू रूप से चलाया जाये। जिसमें पोल्ट्री किसानों का हित सर्वोपरि हो। आज हो क्या रहा है? अण्डा हो या ब्रायलर चन्द लोग गाजीपूर (मण्डी) का रेट देख कर उससे 10 रूपये से लेकर 20 रूपये तक कम निकाल कर अपनी पीठ थप–थपाते है। स्लोगन तो जरूर बड़ा जर्बदस्त है ''मेरा मुर्गा मेरा रेट'' परन्तु सच तो यह है ''तेरा मुर्गा मेरा रेट''। अण्डो के रेट में जर्बदस्त धांधली है। 2025–2026 के कुछ भाग को छोड़ दे जब अण्डे का रेट उछला, अगर मैं गलत नहीं तो दिसम्बर 2025 के दूसरे सप्ताह से ही टूटना शुरू हुआ जो आमतौर से जनवरी के तीसरे सप्ताह से गिरना शुरू होता था।

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बहर हाल यह कुदरत का कहर था जिस कारण दिसम्बर 25 के अन्त से पुनः रेट बढ़ना शुरू हुआ और पहली बार आसमान को छूने को कोशिश करने लगा। कारण स्पष्ट था कुछ प्रदेशो में 'बिमारियों' के कारण प्रोडक्शन काफी कम हो गया। दुर्भाग्य–इसी के साथ फीड का भाव भी बहुत तेज रफ्तार से बढ़ना शुरू हो गया।

अजीब विडम्बना है उत्पादन किसान का, मेहनत उसने की, सारा खर्च उसने किया और उसकी किस्मत का 'फैसला बिचौलिया' कर रहा है जिसकी 'ना हल्दी लगी ना फिटकरी लगी' है। दुर्भाग्य है, देश व्यापी एन ई सी सी, जो किसानों द्वारा किसानों के लिये बनाई गई और शायद उसकी गोल्डन जुबली भी मना ली गई होगी, काम अण्डो के बिचौलियों के हित में ही कर रही है। यह केवल दुर्भाग्य ही नहीं, किसानो के प्रति घोर अन्याय है।

यह किसानों के लिये बहुत ही ज्वलन्त मुद्दा है–उनकी सारी सफलता इसी पर निर्भर है। हमें 'बाजार–व्यवस्था' पर विचार विमर्श के लिये एक व्यवहारिक गोष्ठी रखनी चाहिये। जब आपस में चर्चा होगी तो नये नये दरवाजे खुलेंगे।

आज तक हम नहीं समझ पाये उत्पादन खर्च से कम रेट पर अण्डे और ब्रायलर का रेट कैसे और क्यों निकाला जाता है?

2. ब्रायलर के एक दिन के चूजो की कीमत में इतनी उठा–पटक क्यो?

ब्रायलर उद्योग की यह दूसरी बड़ी समस्या है बाजार व्यवस्था के बाद। यह समस्या किसी ना किसी रूप में बाजार व्यवस्था से जुड़ी है। दुर्भाग्य है कि एक दिन के ब्रायलर चूजे का रेट भी मण्डी ही घटवाती–बढ़वाती रहती है। ब्रायलर इन्डस्ट्री का राजा तो मण्डी ही है। मण्डी में ब्रायलर का भाव धरातल पर आ जाये तो जहां किसान और इन्टेग्रेशन कम्पनी परेशान होते है वहीं ब्रायलर ब्रीडरों के भी पसीने छूटने लगते है – चूजे का भाव 10 रूपये तक आ जाता है और जहां मण्डी तेज होना शुरू हुई तो चूजे का भाव एक दम उछाल मारता है और 55 रूपये तक पहुंच जाता है। आगे हो सकता है, 60 रूपये प्रति ब्रायलर चूजा हो जाये।

इन सब में सबसे अधिक बलवान आढ़ती या कहिये मण्डी वाले ही हैं। वैसे हकीकत तो है कि 'कुदरत' हमारी किस्मत बनाता या बिगाड़ता है परन्तु इसके पहरेदार यह आढ़ती है। इन्टेग्रेर्टस से काफी उम्मीदे है पर अभी तक लगभग 30 सालों में वह भी इन्हीं आढ़तियों के छत्रछाया में आगे पीछे चल रहे है।

फिर कह रहा हूं वर्तमान परिस्थितियों को देखते हुये आपसी संवाद की बहुत आवश्यकता है। जिसमें बहुत से नये नये मुद्दे भी सामने आयेगे। इसमें सभी वर्ग के लोग शामिल हो यहां तक कि मण्डीदारो को भी शामिल किया जाये क्योंकि वहीं तो हमारे उद्योग के 'राजा' हैं।

3. फीड की गुण्वत्ता एवं फीड की कीमत में सदैव संशय क्यों?

फीड इन्डस्ट्री पर एक ही हन्टर फेरा जाये तो लगभग सभी मुझे बुरा–भला ही नहीं बल्कि गाली देने लग जायेंगे। लिखना तो वास्तविकता है अतः समय से सोच–विचार कर सभाल कर कलम चलाना है। इस पूरी फीड इन्डस्ट्री को 'क्लास' में बाटकर लिखना है।

अपर क्लास में दो प्रकार की फीड इन्डस्ट्री है। पहली वह इन्टेग्रेटर है जो स्वयं फीड बनाकर अपने किसानों को देते है। निशचित रूप से वह क्वालिटी पर विशेष ध्यान देते है अतः उनके रिजल्ट प्रायः बहुत अच्छे आते हैं। ऐसे इन्टेग्रेटर की 'चोरी' की हुई फीड आम फारमर बड़ी खुशी से खरीदते है क्योकि उन्हें भी उससे अच्छे रिजल्ट मिलते है। इन्टेग्रेटर्स बहुत बड़ी संख्या के लिय फीड बना रहे है।

इसी अपर क्लास में वह बड़ी फीड कम्पनियां आती हैं जो 'ब्रेंडेड फीड' बना कर बेचती है। उन्हें अपने ब्रेण्ड और उसकी साख की चिंता अधिक रहती है। इसी लिये इनमें से बहुतो ने आधुनिक लेब भी लगा रखी है। बिना जांच के कोई भी ट्रक अनलोड नहीं करते। फार्मूलेशन और क्वालिटी पर विशेष ध्यान देते हैं। बढ़ते हुये इन्टेग्रेशन के कारण इनकी बिक्री जरूर घट रही है परन्तु क्वालिटी पर समझौता नहीं करते।

- दूसरा क्लास है 'मिडिल क्लास'। इनकी कोई लैब नहीं है। यह सारा काम अपने तर्जुबे से करते है। यदि कोई शक हुआ तो किसी भी लैब से टैस्ट करवा लेते है। संतुष्ट होने पर ही इस्तेमाल करते है। इन्हें भी अपने ब्राण्ड की चिन्ता तो रहती है परन्तु कभी कभी दुर्घटना हो ही जाती है।
- इसी क्लास में एक ग्रुप और है जो छोटे इन्टेग्रेटर्स को फीड सप्लाई करता है। यह बेचारे इन्टेग्रेटर्स अक्सर परेशान रहते है। समस्याओं के कारण बिना वजह दवाऐं भी काफी लग जाती है – बाद में पता चलता है, अधिकांश समस्याऐ फीड के कारण थी।
- मुख्य रूप से फीड दो क्लास में बाटा गया है हर क्लास में एक क्लास और जुड़ा है अतः कुल चार हो गये। अपर क्लास की फीड मिलें लगभग देश के सभी भागों में है और उनकी उत्पादन क्षमता बहुत अधिक है। दूसरी क्लास की संख्या बहुत अधिक है। जिसमें मध्यम और छोटी फीड मिल्स शामिल हैं। इसमें अधिकांश न्यूट्रिशनिस्ट से फीड फार्मूलेशन लेकर उसी पर चलते है।
- फीड की गुणवत्ता केवल फार्मूले पर ही नहीं निर्भर है। मुख्य है आपकी फैक्ट्री में किस तरह का माल आ रहा है – उसकी जांच और परख आप किस प्रकार से करते है?
- सबसे बड़ी समस्या फीड में पड़ने वाले सोया, मक्का या किसी अन्य घटक का भाव बड़ी तेजी में बढ़ जाना है, उस समय हम सस्ते दूसरे बायोप्रोडक्ट का इस्तेमाल करते है जिनकी क्वालिटी के कारण कम मात्रा में डालते है। परन्तु सोया मक्का के मंहगा होने के कारण इनकी मात्रा बढ़ा देते है। ऐसी अवस्था में क्वालिटी पर काफी असर पड़ता है।
- विडम्बना यह है कि फीड मिले पूरे भारत में मशरूम की तरह से फैल चुकी है। इस पर सरकार का छोडिये मालिको का भी कोई सुरक्षा नियत्रण या सही ढंग की बायोसिक्योरिटी नहीं है। अधिकांश के यहा जाने अनजाने में इस विषय को गम्भीरता से लिया ही नही गया। मै सरकारी हस्तक्षेप का पक्षधर नहीं हूं।

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Reference: 1. Data on file. Boehringer Ingelheim Animal Health.
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Bursal Disease-Marek's Disease Newcastle Disease Vaccine, Serotype 3, Live Marek's Disease Vector

Vaxxitek HVT+IBD+ND

To be sold by retail on the prescription of a "Veterinary Doctor" only

Composition: Each dose of vaccine contains: MD vectored IBD & ND recombinant virus, Serotype 3- At least 5696 pfu, DMSO/Freezing Solution- 7.5 %, Freezing Media-1 dose q.s., Penicillin <= 30.0units/mL, Streptomycin <= 30.0 mcg/mL, Amphotericin B <= 2.5mcg/mL, calf serum 15 % **Indication:** This product has been shown to be effective for the vaccination of healthy 18 to 19-day-old chicken embryos and one-day-old chickens against standard and variant bursal disease, Newcastle disease and Marek's disease. **Dosage and administration:** In ovo Administration: Use two hundred (200) mL of sterile diluent is used for each 4,000 doses of vaccine to be administered in ovo. Dilute the vaccine only as directed. Inject a 0.05 mL dose into each embryonated egg. Use entire contents of the vaccine container within one hour after mixing the vaccine with diluent. Subcutaneous Injection: Use 200 mL of sterile diluent for each 1,000 doses of vaccine to be injected subcutaneously. Inject chickens under the loose skin at the back of the neck (subcutaneously), holding the chicken by the back of the neck just below the head. The loose skin in this area is raised by gently pinching with the thumb and forefinger. Inject 0.2 mL per chicken. Avoid hitting the muscles and bones in the neck. Use entire contents of the vaccine container within one hour after mixing the vaccine with diluent. **Age-** Day old chickens and 18 days embryonated eggs. **Pregnancy and Lactation:** Not applicable **Contraindications:** Do not vaccinate diseased embryonated eggs or diseased birds. **Special warnings and precautions:** Do not mix the vaccine with other vaccines or veterinary medication. Use the entire contents of the vaccine container within one hour after mixing the vaccine with diluent. Use entire contents when first opened. Do not vaccinate diseased embryonated eggs or diseased chickens. Avoid contact with eyes, hands and clothes when using the vaccine. **Adverse reactions:** None known. **Shelf Life and Storage:** Shelf life is 18 months, AMPULES: Store in liquid nitrogen container. DILUENT: Store at room temperature. **MAH Holder:** - Boehringer Ingelheim India Pvt Ltd, Unit No. 202 and part of Unit no. 201, 2nd Floor Godrej 2, Projsha Nagar, Eastern Express Highway, Vikhroli (E) | Mumbai 400079.

Last review date: 09/08/2024

"Additional information is available on request."

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हमें स्वयं से स्वेक्षा से 'आदर्श फीड मिल' की परम्परा को अपनाना होगा। इसके लिये अपने ज्ञान को सही वैज्ञानिक दिशा देनी होगी। इसके लिये वैज्ञानिक के साथ पाम्परिक गोष्ठी आयोजित होती रहनी चाहिये।

4. पोल्ट्री की दवाऐं किस हालत में हमें अपने स्टोरों से मिल रही हैं?

यह सबसे बड़ा एवं सबसे मंहगा सवाल है। हर दवा के पैक पर साफ–साफ लिखा है कि कम से कम या अधिक से अधिक किस तापमान पर दवाओं को स्टोर करें। क्या हम अनुसरण कर रहे हैं? 4–5 महीने को छोड़ कर 7–8 महीने हम ऊंचे तापमान पर सभी दवाओं को स्टोर करते है। दुखद है हम पोल्ट्री की बात कर रहे हैं यहां हमारे आप के मेडिकल स्टोर भी इसका अनुसरण नहीं करते जिनके लिये सरकार ने हेल्थ इन्सपेक्टर लगा रखे है। यह हर महीने अपना लिफाफा लेने जरूर पहुंच जाते है।

ध्यान रहे आवश्यक तापमान से जितना तापमान बढ़ता जायेगा उतना ही अधिक दवा की 'पोटेन्सी' कम होती जायेगी। स्टाक पुराना होने पर उसमें बचेगा क्या? आपके फ्लाक की बीमारी कैसे दूर करेगी?

दवा की कम्पनियां दवा की सप्लाई करने के बाद कभी भी स्टोर में जाकर नहीं देखती कि स्टोर में उनकी दवा किस हालत में है? उन्हें चाहिये कि पुरानी दवाओं को चेक करें कि कितनी पोटेन्सी बची है। वह ऐसा करेंगे या नही इसमें मुझे शक है क्योकि यदि ऐसा किया तो हो सकता है उन्हें वह पुरानी दवा सारी रिप्लेस करनी पड़े। यह अन्याय पोल्ट्री के साथ सदियों से चल रहा है।

5. वैक्सीन पर वैक्सीन पोल्ट्री पर थोपी क्यों जा रही है?

जबसे वैक्सीन बनाने की प्राईवेट कम्पनियां आ गई है और उन्हीं के हाथ में वैक्सीनेशन प्रोग्राम भी चला गया है तब से साल–दरसाल वैक्सीन लगाने की संख्या बढ़ती जा रही है। हालत तो यह हो गई है कि दो वैक्सीनों के बीच लगाने में अन्तर का वैज्ञानिक सिद्धांत भी हमने दर किनार कर दिया है। इस टीकाकरण 'ठोकने' के अवैज्ञानिक पद्यति का समाधान हमारे अनुभवी वैज्ञानिक ही निकाल सकते है। दुखद है वह इस पर बिल्कुल चुप्पी साधे हुये है जैसे उन पर कोई दवाब है।

यह सभी पांचों मुद्दे पोल्ट्री इन्डस्ट्री के लिये गम्भीरतम समस्याओं के कारण है। जिन पर चर्चा हर स्तर पर होनी चाहिए – समाधान तलाश करना चाहिये। हम लगे हुये है भविष्य की बातो पर और चांद और सितारों पर पोल्ट्री करने का 'रोडमैप' बना रहे है। आज धरातल पर क्या हो रहा है, इसकी हमें चिंता नहीं है।

इन्काउन्टर नं. 283 – क्या सचमुच भारत सरकार ने H.P AI - H5N1 वैक्सीन के आयात करने की अनुमति दे दी है?

इस खबर में पोल्ट्री फेडरेशन ऑफ इण्डिया का भी नाम आया तो मै चौंका क्योंकि इस एसोसिएशन से पहले दिन से जुड़ा हूं। याद आया जब लगभग दो दशक या इससे कुछ अधिक समय पहले बरवाला हरियाणा से एक नई वायरल बीमारी फैलना शुरू हुई और बहुत तेजी से भारत के हर पोल्ट्री बेल्ट में पहुंचने लगी। वैज्ञानिको की राय भी आपस में नहीं मिल रही थी। जबर्दस्त वाद–विवाद चल रहा था। कोई इसे फीड की समस्या कहता तो कोई इसे नई वायरल डिज़ीज बताता और सबसे ज्यादा जोर था ND वैरियन्ट पर। एक बहुत बड़े ताकतवर धड़े का जोर था कि सही बीमारी का नाम उजागर ना होने पाये। परन्तु ऐसा क्यो? बरवाला आऊट ब्रेक के तीन चार महीने बाद ही ND वेरियन्ट के नाम से एक किल्ड वैक्सीन आ गई सचमुच काम कर रही थी। इसके साथ ही भोपाल लैब ने भी इस बीमारी से पर्दा हटा दिया – LPAI-H9N2 डिक्लेयर कर दिया। यही सच था इसी वायरस से किल्ड वैक्सीन बनाई गई थी जिसे वेरिण्ट के नाम से बेचा जा रहा था। आखिर लगभग 2 दशक के बाद सरकार ने H9N2 वैक्सीन बनाने की आज्ञा भारतीय वैक्सीन बनाने वाली कम्पनियों को दे ही दिया। प्रारम्भ में जो वैज्ञानिक एवं स्वयं भू कनसल्टेन्ट बहुत चहक के चमक के और दमक के इसे ND वेरिंएट कह रहे उनके गाल पर तगड़ा तमाचा लगा।

अब बात करते है HPAI H5-N1 की। यह भी लगभग 18–20 साल से कहीं ना कहीं दस्तक दे रही थी। भारत में जहां देती थी उस इलाके के किसान तो परेशान होते ही थी परन्तु हमारे भोंपू मिडिया इसे पूरे भारत में फैलाकर पूरी इन्डस्ट्री को परेशान कर देते है। भारत सरकार ने बड़ी साफ सुथरी पॉलिसी बना रखी थी जहां भी H5N1 कन्फर्म हो वहां के 10 किलोमीटर के दायरे की पूरी पोल्ट्री की 'स्टैम्पिंग' कर गहरे गडढे में डाल देना है। वैक्सीन के अभाव में बीमारी फैलने से रोकने के लिये यह सबसे बेहतर तरीका है। वैसे भी H5N1 बहुत ही घातक बीमारी है। 100 प्रतिशत तक मार्टेलिटी हो जाती है। इस लिये इस बीमारी की पुष्टि होते ही मार देना ही उचित है वरन् यह 10 किलोमीटर दायरे से बाहर निकल कर दूर तक फैलेगी।

प्रारम्भ में जब यह बीमारी महामारी की शक्ल में कुछ देशों में आई तो उन्होंने तुरन्त वैक्सीन बनाने पर विचार करना शुरू कर दिया। विचार ही नहीं उस पर काम करना शुरू कर दिया। सुखद है जब विश्व में हाहाकार मचा था तो भारत में काफी समय तक शान्ति बनी रही। हम कब तक बचे रहते, यहां भी **H5N1** ने दस्तक दे ही दी।

विश्वभर में वैक्सीन पर बहस जोरो से शुरू हो गई। हर देश के वैज्ञानिक दो भागों में बंटे। एक वह जो वैक्सीन पर जोर दे रहे थे दूसरे वह जो कहते थे यह कारगर नहीं होगी। इनका तर्क बिल्कुल साफ और वैज्ञानिक था उनका कहना था कि यह वायरस म्यूटेट हो कर अपना 'चोला' बहुत जल्दी जल्दी बदलता है। हो सकता है 6 महीने था एक साल में स्ट्रेन बदल जाये और वैक्सीन काम नहीं करेगी।

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आज स्वर्गीय डाक्टर JL VEGAD इस सन्दर्भ में बहुत याद आ रहे है। जब भारत में पहली बार H5N1 ने दस्तक दी इससे काफी पहले चीन और कुछ अन्य देशो में यह दस्तक ही नहीं कोहराम मचा चुकी थी। डॉक्टर वैगर्ड अपने देश के महान वैज्ञानिक थे – प्रारम्भ से ही इस समूह की बीमारियों पर विश्व व्यापी गहन अध्ययन करने लगे – विशेष रूप से चीन को उन्होंने ध्यान में रखा क्योंकि वहां बीमारी पहले ही अपने को जमा चुकी थी और वहां के वैज्ञानिक इस पर गम्भीरता से काम कर रहे थे। उन्होंने वैक्सीन H5N1 की बनाई – कारगर हुई परन्तु यह वैक्सीन कुछ महीनों में फेल हो गई क्योंकि स्ट्रेन बदल गया नई वैक्सीन बनी और पहली वाली लाखों डोज बर्बाद हो गई। डाक्टर साहब यह बात वैक्सीन आने से पहले से ही कह रहे थे और इस खतरे को काफी गम्भीरता से बताते थे।

चलिये चीन ने वैक्सीन बनाई, कुछ दिन बाद स्ट्रेन बदलने के कारण यह बेकार हुई परन्तु उन्होने तुरन्त नये स्ट्रेन लेकर नई वैक्सीन बनाई और इस प्रकार अपनी पोल्ट्री इन्डस्ट्री को बचाया। हम आयात करने की बात कर रहे है। हमारे यहां जो स्ट्रेन है उसी की वैक्सीन होगी या उसमें कुछ और भी स्ट्रेन होगी जो भारत में नहीं है? यह गम्भीर मुद्दा है।

यहां एक बात बता दूं जो बहुत पर्सनल है। H9N2 की वैक्सीन तो 2 दशक या इससे ज्यादा समय से ND वेरियन्ट के नाम से मिल रहीं थी जो शुद्ध भारतीय कम्पनियों द्वारा बनाई जा रही थी और LPAi - H9N2 में काफी कारगर भी है। एक कम्पनी के डायरेक्टर ने मुझसे कहा कि हमारी H9N2(N.D Variant) की वैक्सीन औरों से अलग और काफी अच्छी है क्योंकि इसमें हमने 'नवापूर' का भी स्ट्रेन मिला दिया है। मैं चौंक पड़ा क्योंकि यह तो HPAI H5N1 था।

इन सब अन्तः कलह को देखते हुये, चोला बदलकर नये स्ट्रेन की उत्पति को देखते हुये बेहतर होगा हम अपने ही स्ट्रेन से अपने ही देश की पोल्ट्री के लिये HPAI H5N1 की किल्ड वैक्सीन स्वयं बनाये। अपने देश की सभी वैक्सीन बनाने वाली कम्पनिया काफी सक्षम हैं। निर्णय हमारी सरकार को भारतीय वैज्ञानिकों की सलाह से लेना चाहिए। आयात पर निर्भर रहना उचित नहीं। इस स्ट्रेन के चोला बदलने पर अपने देश के निर्माता जागरूक हैं, तुरन्त नए स्ट्रेन की वैक्सीन बना सकते है।



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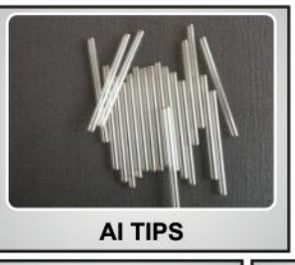
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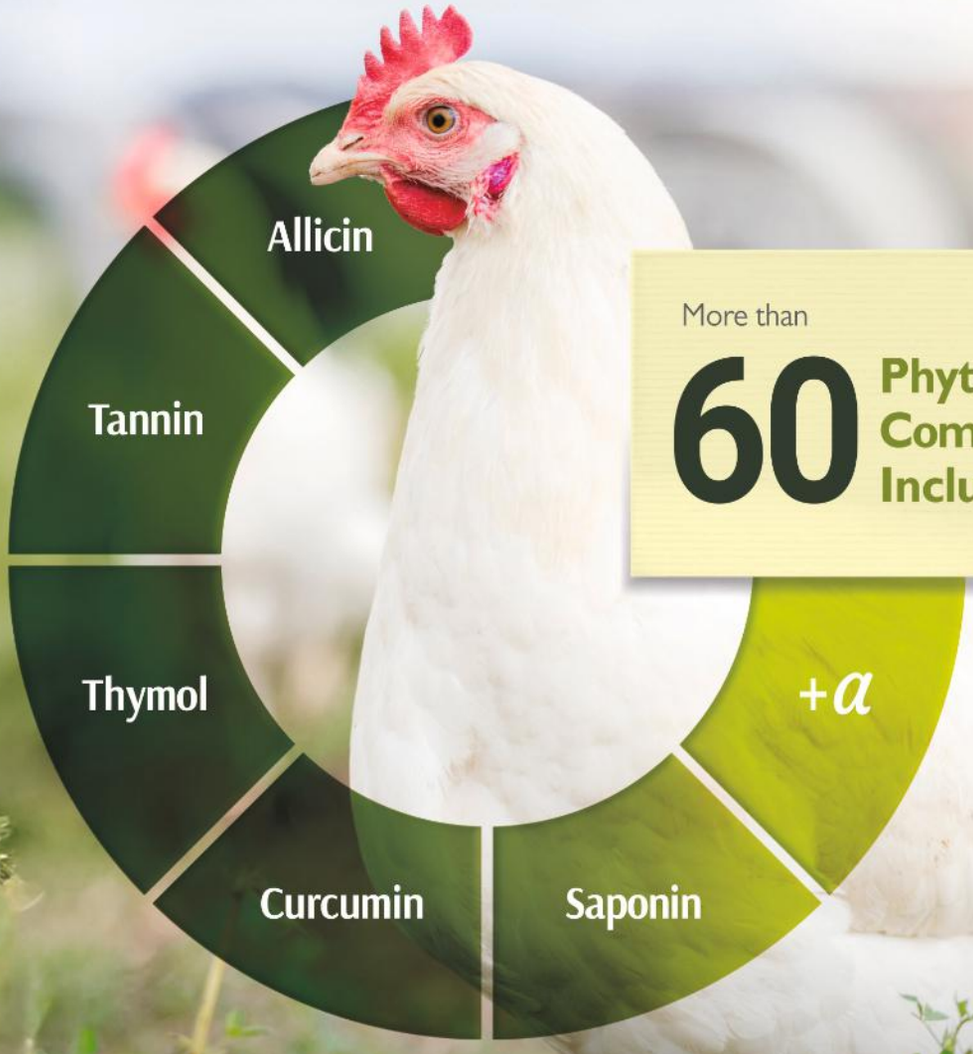

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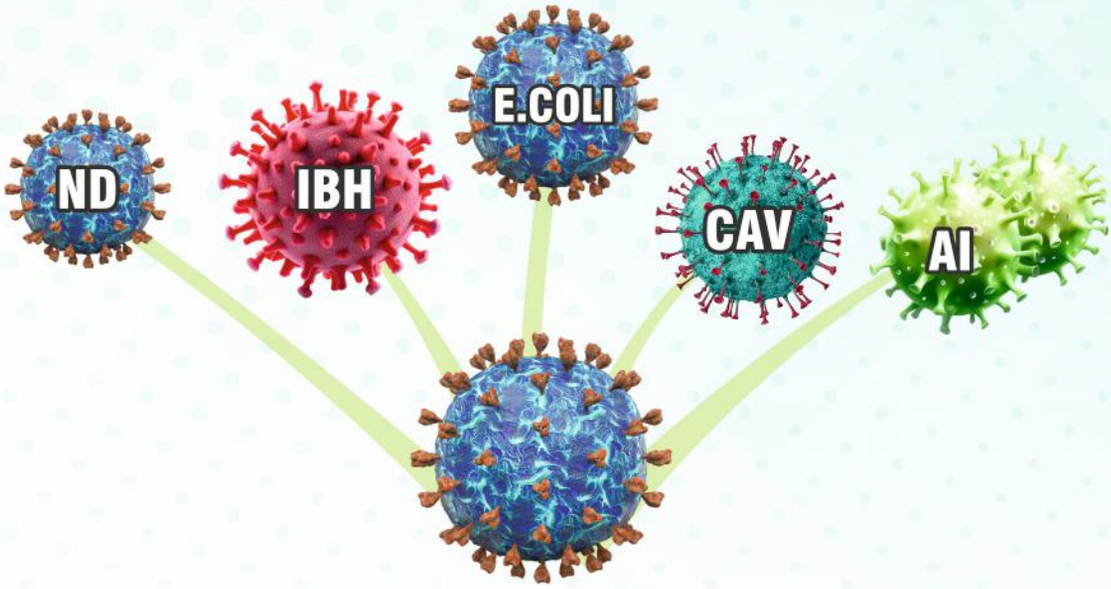

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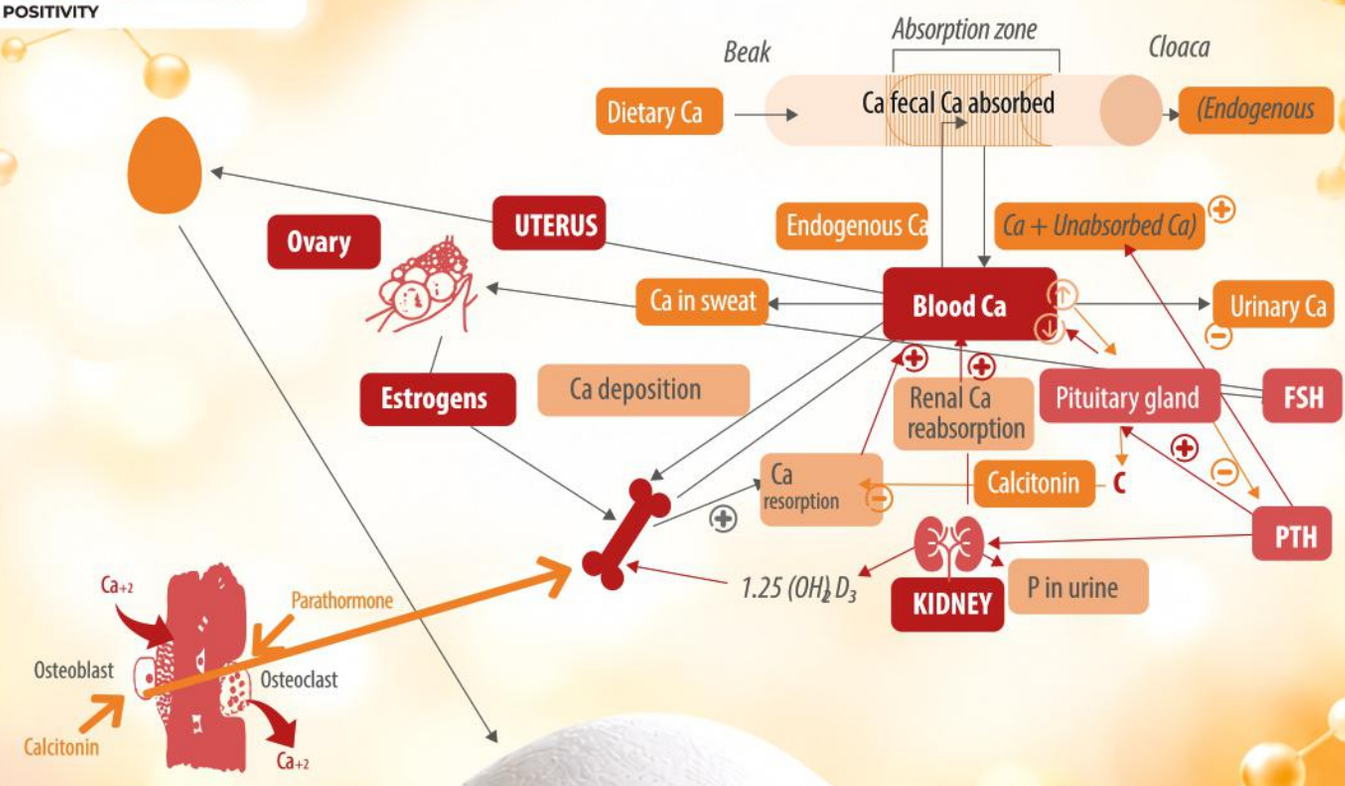

Approximate diagram of calcium metabolism

Complex biological process for calcification of an egg making?
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Reference :
Dr. Guillermo Díaz Arango
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ARTICLE

Skeletal Health and Egg Production in Laying Hens

Dr. RNS Gowda

Introduction

In most animal species, the purpose of bone is primarily for structural support, as well as forming a complex reservoir for minerals, such as calcium and phosphorous However, in the case of avian species, the additional requirement for eggshell formation necessitates greater mobilization of calcium reserves beyond levels provided by the diet. In fact, early studies showed that while approximately 60 to 75% of the calcium destined for the shell comes directly from intestinal absorption. up to 36% could be traced to bones.

This bone source is critical since shell calcification occurs during the scotophase, also known as the dark period, when the hen is not feeding. Since the calcium storage capacity will influence the reproductive efficiency of the adult, proper skeletal development is integral during pullet growth. This should be achieved prior to sexual maturation, with long bones reaching their maximum length and cortical bone reaching optimal thickness This should be achieved prior to sexual maturation, with long bones reaching their maximum length and cortical bone reaching optimal thickness. Upon activation of the reproductive axis and in preparation for the laying cycle, increasing estradiol 17-beta (E_2) concentrations shift the activity of osteoblasts toward the formation of medullary bone, with cortical bone accumulation terminated.

Skeletal Health

Skeletal health and egg production in laying hens are biologically linked, as a hen's skeleton acts as the primary metabolic reservoir for the calcium required to build eggshells. A modern high-performing layer uses about **10% of her total body calcium** to produce a single eggshell. When dietary calcium is insufficient during the overnight shelling process, the hen must dissolve her own bones to maintain production, directly creating a balancing act between skeletal integrity and egg output.

The Three Bone Types in Laying Hens

To balance structure and production, a hen's skeleton consists of three distinct bone types, as detailed in research:

1. **Cortical Bone:** The hard, dense outer layer of long bones (like the femur) providing structural strength.
2. **Trabecular Bone:** The internal, honeycombed structural network that reinforces cortical bone from the inside.
3. **Medullary Bone:** A unique, highly vascularised spongy bone that forms inside marrow cavities about 10-14 days before the first egg is laid. It functions strictly as a fast-mobilising calcium reserve for eggshell creation.

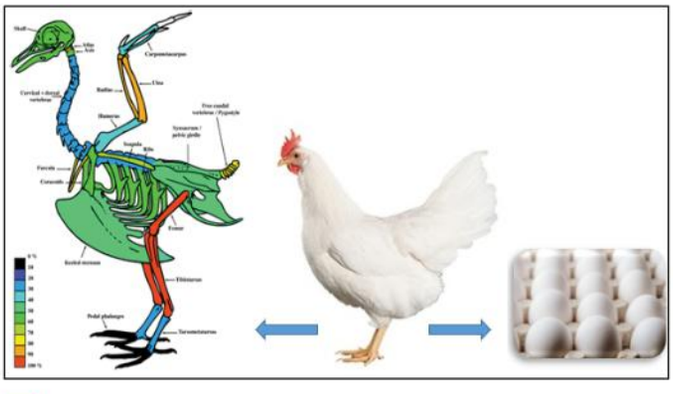

Fig:1.Distribution and prevalence of medullary bone in the different regions of the avian skeleton. Calcium is required for both egg production and bone Skeleton (Source: British Poultry Science Volume 66, 2025 - Issue 6)

The Calcium Trade-Off

Each eggshell requires roughly **2 grams of calcium**, which can represent over **10% of the hen's total body calcium.**

AspectCalcium	Sourcing & Impact
Dietary Reabsorption	Around **60%** of the eggshell calcium comes directly from daily feed intake.
Skeletal Mobilisation	The remaining **40%** is drawn directly from the medullary bone. This process accelerates at night when the hen is not eating but shell calcification is peaking.
The Risk of Exhaustion	If dietary calcium is insufficient or if the hen has a high peak production rate, the body continuously resorbs structural bone alongside medullary bone. Over time, this leads to **progressive structural loss**, cortical porosity, and thinning.

Biology of Calcium Mobilisation

An average eggshell requires roughly **2 to 2.5 grams of calcium.**

- **Daytime Production:** When the hen is eating during the day, approximately 60% to 75% of the shell's calcium comes directly from intestinal absorption of her feed.
- **Nighttime Production:** Eggshell calcification predominantly occurs during the dark period (scotophase) when the hen is asleep and not eating. To finish the shell, the hen's body secretes organic acids to resorb up to **30% to 40% of the required calcium** directly from her medullary bones.

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- **The Cycle:** The next day, the hen replenishes this bone marrow reservoir through dietary intake before the next shelling cycle begins.

What Happens When Balance Fails?

If the daily drain of calcium outweighs structural recovery, the hen enters a state of negative mineral balance, resulting in several clinical and economic problems:

Condition / Issue	Cause	Core Impact on Hen & Production
Osteoporosis	Chronic structural bone resorption surpassing regeneration.	Brittle, highly porous bones prone to fractures, particularly in cage-free aviaries due to impacts.
Cage Layer Fatigue	Extreme calcium depletion pulling minerals from long bones.	Paralysis due to spinal cord compression; hens collapse in their enclosures.

Keel Bone Deformities High metabolic demand coupled with physical pressure from perches.Twisted or fractured breastbone, leading to severe chronic pain and reduced mobility.

Drop in Egg Quality & Volume Exhausted skeletal reserves.High percentage of cracked, thin, soft-shelled, or unmarketable eggs.

Management Strategies for Optimal Balance

According to Hy-Line International and related poultry studies, maintaining this balance requires specialized care across the flock's lifecycle:

1. Pullet and Pre-Lay Management

- **Build Reserves Early:** Long bones must reach maximum length and cortical thickness before sexual maturity (by week 15).
- **Pre-Lay Rations:** Switch to a pre-lay diet with **2.0% to 2.5% calcium** roughly 10–14 days before the first egg. This builds a thick medullary reserve without overloading immature kidneys.

2. Nutritional and Management Strategies

- **Balanced minerals:** Feed a precise ratio of calcium, phosphorus, and vitamin D3.
- **Particle size:** Combine fine and coarse calcium sources to ensure a steady mineral supply during overnight eggshell calcification.
- **Early monitoring:** Track body weight, uniformity, and keel bone integrity starting from the pullet rearing phase

Phase-by-Phase Nutritional Requirements

The table below highlights how macronutrient concentrations must shift to safeguard the skeleton as the hen ages:

- **The Pre-Lay Bridge:** Jumping straight from a grower diet (0.9% calcium) to a peak layer diet (4% calcium) shocks a hen's system. The pre-lay diet safely signals her endocrine system to begin building **medullary bone reserves** without causing kidney damage or a drop in feed intake.
- **The Phosphorus Drop:** While calcium increases in the Late-Lay phase to account for poor absorption, **available phosphorus must be lowered.** High blood phosphorus levels chemically inhibit the mobilization of calcium from the bone, which reduces eggshell quality.

3. Particle Size Matters

- **Large Particle Calcium:** Provide at least 60% to 70% of dietary calcium as large particles (2–4 mm limestone or oyster shells). Large particles dissolve slowly in the gizzard, providing a steady release of calcium overnight, protecting the bones from being heavily raided.
  - **Weeks 19 to 35: 30% Fine** limestone / **70% Coarse** limestone or oyster shell.
  - **Weeks 36 to 60: 25% Fine / 75% Coarse.**
  - **Weeks 60+: 20% Fine / 80% Coarse** (ensuring maximum overnight availability to protect deteriorating bones). [1, 2]

4. Nutrient Co-Factors

- **Vitamin D3 & Phosphorus:** Calcium cannot be absorbed without Vitamin D3. Ensure available phosphorus levels are precisely balanced; too much or too little phosphorus disrupts calcium absorption and damages bone integrity.

5. Housing Adaptations

- **Exercise Support:** In cage-free or aviary setups, hens experience better bone density due to movement, but are at a higher risk for keel bone fractures. Ensure ramps and resting perches are ergonomically designed to reduce high-impact collisions. [1, 2]
- Would you like to focus on specific **dietary formulations (calcium to phosphorus ratios)**, explore **genetic strains** optimized for skeletal strength, or look into managing **extended laying cycles** (past 90 weeks)?

Conclusion

Laying hens require vast amounts of calcium for eggshell production, which directly depletes their skeletal reserves and often leads to severe osteoporosis and fractures over extended laying cycles.

Production Phase (Age in Weeks)	Target Crude Protein (%)	Calcium / Ca (%)	Available Phosphorus (%)	Metabolizable Energy (kcal/kg)
Pre-Lay (Weeks 16–18)	16.0% – 17.0%	**2.0% – 2.5%**	0.40% – 0.45%	~2,750
Phase 1: Peak (Weeks 19–35)	**17.5% – 18.0%**	3.5% – 4.0%	**0.40% – 0.45%**	~2,850
Phase 2: Post-Peak (Weeks 36–60)	15.5% – 16.5%	3.8% – 4.2%	0.38% – 0.42%	~2,800
Phase 3: Late-Lay (Weeks 60+)	14.5% – 15.5%	**4.2% – 4.5%**	**0.32% – 0.35%**	~2,750

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Breathing Life Back Into Flocks

The Silent Crisis of Poultry Respiratory Disease and the Promise of Phytogenic Solutions

Vamso

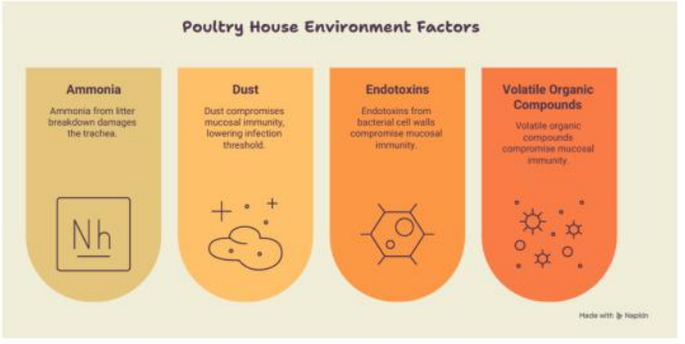
Dr. Manish Mukherjee

The Silent Crisis Draining Your Farm

Respiratory disease is one of the most economically punishing challenges in commercial poultry production. A single Infectious Bronchitis (IB) outbreak can spike mortality, collapse feed conversion ratios, and trigger mass condemnation at slaughter. Newcastle Disease (ND) brings international trade consequences. Chronic Respiratory Disease (CRD), caused by *Mycoplasma gallisepticum*, is subtler still — simmering undetected for weeks while silently eroding weight gain and egg output.

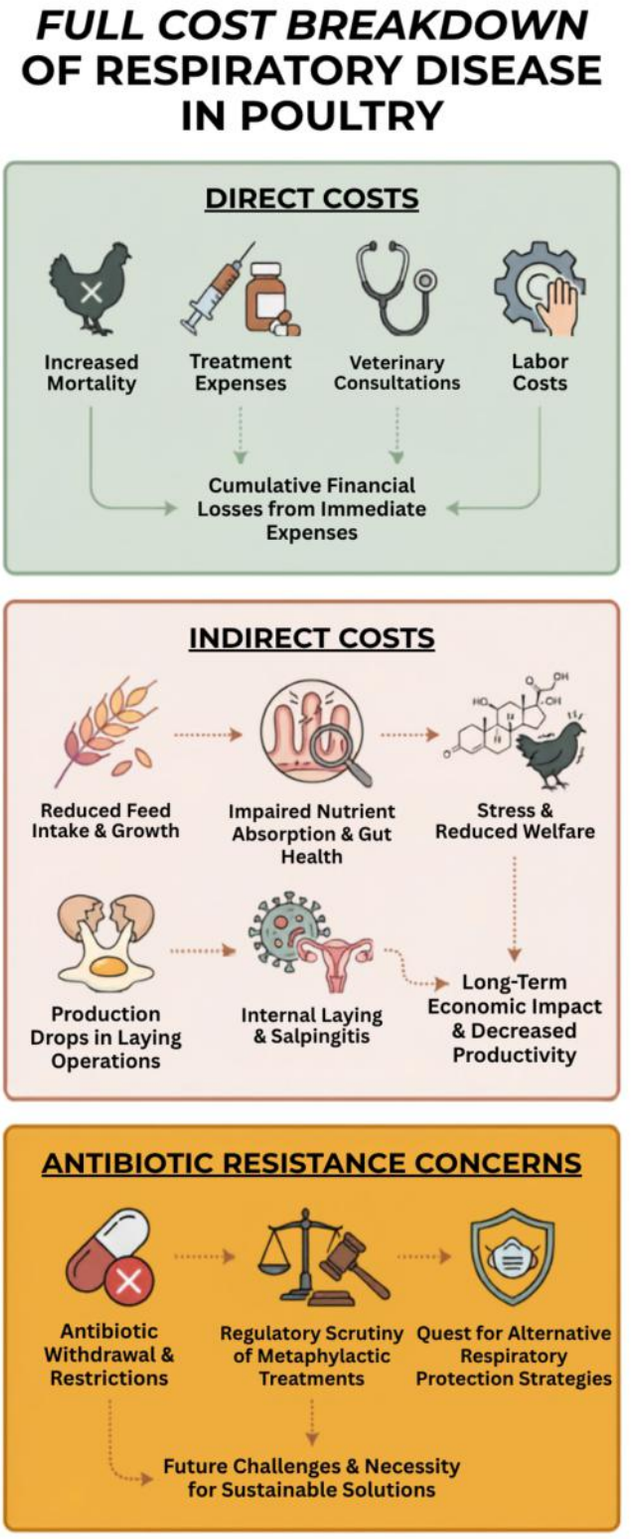
Birds are anatomically primed for rapid disease spread. Without a diaphragm, their air-sac system extends deep into the viscera and bones, meaning any pathogen entering the trachea can disseminate widely before clinical signs appear. Viral agents — IBV, NDV, Avian Influenza — strip the ciliated epithelium that guards the trachea, opening the door for secondary bacteria: *Mycoplasma gallisepticum*, *Escherichia coli*, and *Ornithobacterium rhinotracheale*.

The house environment makes things worse. Ammonia from wet litter directly erodes mucosal defences, even at concentrations producers consider normal. Dust and endotoxins lower the infection threshold further. The result: pathogens that would otherwise cause mild disease trigger serious, costly outbreaks.



The True Cost Goes Beyond Mortality

Visible losses — dead birds, vet bills, treatment costs — are just part of the damage. The hidden toll is often larger. Fever suppresses feed intake; damaged intestinal villi impair nutrient absorption for weeks post-recovery; elevated corticosteroids suppress immunity, leaving flocks vulnerable to the next challenge. In layers, even a brief respiratory event can trigger a production drop that never fully reverses, or the salpingitis and internal laying that IBV is notorious for causing.



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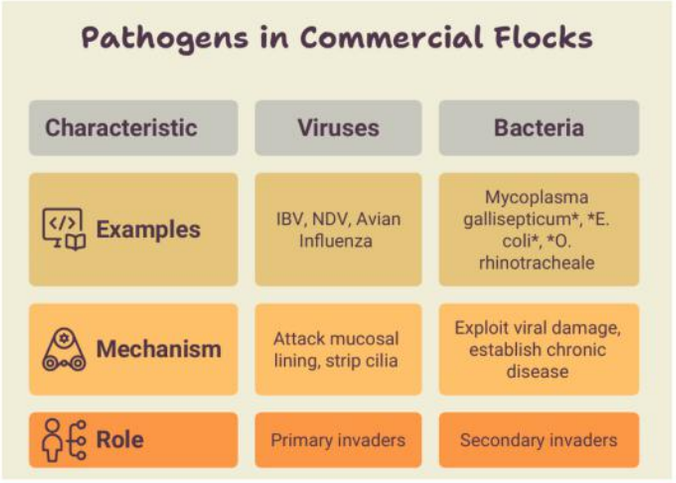



"The respiratory mucosa is the first battlefield. When ammonia, dust and pathogens strip it bare, the economic consequences follow within days."

Phytogenics: Science-Backed, Nature-Derived

Phytogenic solutions — formulated from therapeutic-grade ***essential oils*** and ***validated medicinal herbs*** — have moved firmly into mainstream poultry health management. Unlike antibiotics, which target a single bacterial pathway, essential oil bioactives (terpenoids, phenols) strike multiple cellular targets simultaneously. This polymodal action makes resistance virtually impossible to develop, explaining why these compounds have remained effective across millennia of plant-pathogen co-evolution.

A Six-Oil Synergy

Respro Plus (Vamso Biotec) has developed a solution that combines six therapeutic essential oils with a portfolio of Ayurvedic herbs. Each ingredient has a defined role; the formulation achieves outcomes no single oil could deliver alone.

The Ayurvedic Herbal Advantage

The essential oils are complemented by five validated Ayurvedic herbs that extend protection in ways essential oils alone cannot:

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- **Kapoor Kachri (Hedychium spicatum):** potent decongestant that clears accumulated exudate from the respiratory channel.
- **Pushkarmool (Inula racemosa):** antihistaminic, bronchodilatory, antiviral — tackles the allergic and inflammatory components of disease.
- **Tulsi (Ocimum tenuiflorum):** immunomodulatory, enhancing adaptive immune response to respiratory viral challenge.
- **Shilajit (Asphaltum punjabianum):** adaptogenic antistress agent supporting performance under heat stress and boosting systemic immunity.



How Essential Oils & Herbs Work in Synergy

The formulation delivers a six-dimensional mechanism of action, addressing every facet of the respiratory disease process simultaneously:

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HIPRA

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1 — Mucolytic & Expectorant
Breaks down thick viscous mucus in the lower respiratory tract, facilitating expulsion and restoring airway patency.

2 — Bronchodilation
Peppermint oil + Pushkarmool relax bronchial smooth muscle, widening the airway lumen and improving breathing efficiency.

3 — Pathogen Elimination
Polymodal action of thymol, eucalyptol & carvacrol targets viral and bacterial pathogens across multiple cellular sites.

4 — Mucosal Barrier Repair
Macrophage activation and mucosal immunity enhancement rebuild the first line of defence against reinfection.

5 — Anti-Inflammatory
Coordinated activity from lavender, eucalyptus & sage reduces tracheal and bronchial oedema — speeding recovery.

6 — Adaptogenic Support
Shilajit's adaptogenic properties maintain productive function under heat stress — a primary trigger of respiratory outbreaks.

Overall Respro Plus Provides Triple-Layer Defence: How It Works

Together, the oils and herbs deliver protection across three stages

TRIPLE-LAYER DEFENCE MODEL

How Respro Plus Tackles Respiratory Disease at Every Stage

1 BLOCK — Mucosal Barrier Restoration
Tulsi & immunomodulatory herbs activate macrophages and rebuild the first line of defence — restoring the ciliated epithelium that pathogens exploit.

2 DISRUPT — Targeted Antimicrobial Action
Thymol, eucalyptol & carvacrol attack viral and bacterial pathogens on multiple targets simultaneously — making resistance development highly unlikely.

3 RECOVER — Anti-Inflammatory & Adaptogenic Support
Lavender, eucalyptus, sage & Shilajit reduce tracheal oedema, speed recovery, and maintain productive function under heat and management stress.

Conclusion

Respiratory disease demands a multi-front response. The combination of therapeutic essential oils and validated Ayurvedic herbs in Respro Plus delivers exactly that — simultaneously clearing airways, eliminating pathogens, reducing inflammation, and rebuilding mucosal immunity. No withdrawal period, no resistance risk, and no specialist equipment. For producers facing the pressures of antibiotic stewardship and rising disease challenge, phytogenic respiratory solutions are no longer an alternative — they are an essential part of the modern health programme.

Vamso

"The future of poultry respiratory health management lies not in choosing between modern science and traditional knowledge, but in intelligently combining the best of both — for the benefit of flock health, producer economics, and consumer confidence alike."

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Salmonella In Poultry:
From Exposure to Control

Stallen

INTRODUCTION

Salmonella remains a major bacterial and food-safety challenge for poultry production. The genus includes host-adapted serovars such as S. Gallinarum and S. Pullorum as well as non-typhoidal serovars such as S. Enteritidis and S. Typhimurium. Depending on the serovar, age and immune status of the bird, infection may range from silent intestinal carriage to enteritis, septicaemia, reproductive-tract colonisation and mortality. The importance of Salmonella extends beyond flock health because contaminated poultry meat and eggs can act as vehicles for human infection (Shaji et al., 2023; WOAH, 2024).



Dr. Sanjay Singhal
Chief Operating Officer
Stallen South Asia Pvt. Ltd.



Dr. P Tradhnesh
Assistant Technical Manager
Stallen South Asia Pvt. Ltd.

Why it matters in modern poultry production

- Subclinical intestinal carriage can occur without obvious clinical disease while birds continue to shed the organism.
- Vertical transmission can introduce Salmonella through breeder flocks, hatcheries and hatching eggs, while horizontal transmission amplifies contamination within houses.
- Feed, litter, faeces, water, hatchery environments, rodents, insects and contaminated equipment can form interconnected sources of exposure (Wang et al., 2023).
- S. Enteritidis is particularly important in layers because reproductive-tract colonisation can result in contamination of egg contents even when hens show few or no clinical signs.
- Successful control requires a layered programme combining source control, biosecurity, surveillance, vaccination where appropriate and management of the intestinal environment.

Etiology

Salmonella belongs to the family Enterobacteriaceae and comprises numerous serovars within Salmonella enterica. Poultry-associated infections are commonly discussed as either host-adapted Salmonella—especially S. Gallinarum biovars Gallinarum and Pullorum—or non-typhoidal Salmonella (NTS), including S. Enteritidis and S. Typhimurium. The biological behaviour of a flock depends strongly on the serovar, dose, age, route of exposure and host factors (Shaji et al., 2023; Shah et al., 2017).

Transmission

The principal route of flock-to-flock amplification is faecal-oral transmission. Birds may ingest Salmonella from contaminated litter, dust, feed, water, equipment, footwear or the surrounding environment. Vertical transmission is particularly important in breeding populations because infected hens can introduce Salmonella into eggs and thereby into hatchery populations. A systematic review of pre-harvest poultry production identified hatchery, litter, faeces, the house environment, feed and water among important sources associated with Salmonella positivity (Wang et al., 2023).

Infection Cycle Of Salmonella

Unlike Eimeria, Salmonella does not have a developmental life cycle with distinct sexual and asexual stages. Its poultry infection cycle is better described as a sequence of exposure, intestinal colonisation, invasion, persistence or systemic dissemination, shedding and re-exposure. After ingestion, organisms encounter the crop and gastrointestinal tract, then preferentially colonise intestinal sites including the caeca. In susceptible birds, invasion and survival within host cells can facilitate spread to organs such as the liver and spleen. In laying hens, reproductive-tract colonisation is epidemiologically important because it can precede contamination of forming eggs (Shah et al., 2017).

Clinical Signs

Clinical presentation varies substantially with serovar and bird age. Non-typhoidal Salmonella infections may be subclinical, whereas S. Gallinarum and S. Pullorum are capable of producing systemic disease. In young chicks, Pullorum disease may present with weakness, anorexia, diarrhoea, dehydration and mortality. Fowl typhoid can produce acute septicaemia with rapid spread and high mortality, particularly in susceptible growing or adult birds (WOAH, 2024).

- Reduced feed and water intake, depression and poor growth.
- Diarrhoea or pasting of the vent, particularly in young chicks.
- Dehydration, weakness, huddling and uneven flock appearance.

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- In severe systemic disease: increased mortality, septicaemic signs and marked depression.
- In breeder/layer flocks: reduced production or hatchability may occur with host-adapted Salmonella, while S. Enteritidis infection can remain clinically inapparent.

Serovar-Specific Behaviour

Serovar / biovar	Important poultry behaviour	Typical field relevance
S. Enteritidis	Intestinal carriage with potential systemic and reproductive-tract colonisation	Egg contamination; often limited clinical signs in adult layers
S. Typhimurium	Broad host range; intestinal colonisation and possible systemic spread	Food-safety concern; flock shedding and environmental persistence
S. Gallinarum biovar Gallinarum	Host-adapted systemic infection	Fowl typhoid; septicaemia and mortality
S. Gallinarum biovar Pullorum	Host-adapted infection, especially severe in young chicks	Pullorum disease; vertical transmission and carrier state

Pathogenesis: From Gut to Systemic Infection

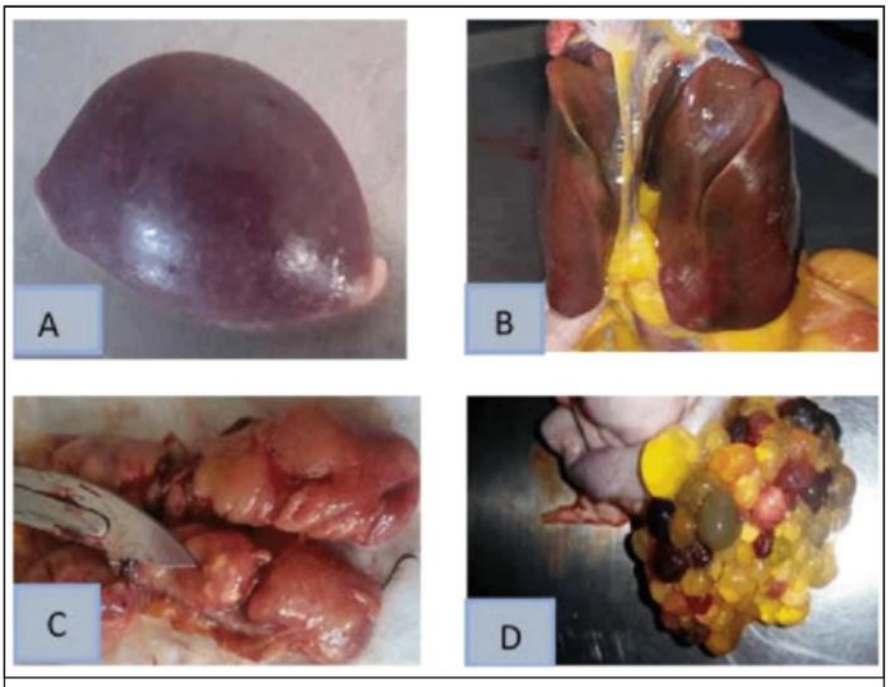
Following ingestion, Salmonella must survive the gastrointestinal environment and compete with resident microbiota. Colonisation is influenced by the integrity of the intestinal barrier, gut microbiota, age and immune status. Virulence-associated systems, including type III secretion systems encoded by Salmonella pathogenicity islands, contribute to interactions with intestinal and host cells. In S. Enteritidis, intestinal colonisation may be followed by invasion and dissemination to the liver and spleen; in laying hens, reproductive-tract colonisation can lead to internal egg contamination (Shah et al., 2017; Shaji et al., 2023).

Diagnosis and Surveillance

Clinical signs and gross lesions are suggestive but not sufficient to identify Salmonella serovar reliably. Confirmation should rely on appropriate laboratory testing, typically involving culture and identification, with molecular or serological methods used according to the surveillance objective. WOAH notes that serology can support flock-level surveillance but should be interpreted in relation to vaccination status and the serovars targeted by the assay (WOAH, 2022). Sampling plans should be designed around the production stage and objective—for example, breeder monitoring, hatchery surveillance, environmental monitoring or investigation of clinical disease.

Post-Mortem Lesions

Salmonella lesions are variable and should be interpreted together with age, history, clinical presentation and laboratory confirmation. In systemic infections, the liver and spleen are commonly affected. Fowl typhoid may produce an enlarged, friable, dark or bronze-coloured liver with necrotic foci, while splenic congestion or enlargement may occur. Pullorum disease in chicks can be associated with unabsorbed yolk sacs, necrotic foci in viscera and firm caecal cores. In non-typhoidal salmonellosis, lesions may include enteritis, congestion and multifocal hepatic or splenic lesions (WOAH, 2018; Damor et al., 2024).



Gross lesions reported in Salmonella-positive organs: enlarged and mottled spleen (A), discoloration and enlargement of the liver (B), enlargement and white-spot appearance of the kidney (C), and discoloration and misshaping of ovarian follicles (D).

Prevention and Control

Effective Salmonella control is a multi-layered process. WOAH emphasises that no single intervention is sufficient by itself; control programmes should combine good agricultural practices, biosecurity and targeted measures such as vaccination, competitive exclusion or organic-acid interventions when appropriate. Control should be built around the epidemiology of the serovars present in the region and production system (WOAH, 2024).

1. Biosecurity and farm hygiene

- Use clean entry procedures, dedicated footwear/clothing, hand hygiene and effective disinfection between flocks.
- Control rodents, wild birds, flies, beetles and other vectors that can move contaminated material between houses.
- Maintain clean, dry litter and prevent faecal contamination of feed and water lines.

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- Clean and disinfect equipment, crates, egg-handling areas and high-traffic surfaces.
- Manage flock flow and personnel movement so that contamination is not carried from older or positive houses to younger flocks.

2. Feed, water and hatchery control

Feed is a recognised potential source of Salmonella introduction. Feed mills should use validated hygiene and pathogen-control procedures, and farms should protect stored feed from rodents, wild birds and moisture. Drinking-water systems require routine cleaning and monitoring because biofilm and organic contamination can support bacterial persistence. Hatchery hygiene is particularly important because contamination at this stage can seed many chicks and subsequently amplify within broiler or layer houses (Wang et al., 2023; WOAH, 2024).

3. Vaccination

Vaccination can be incorporated into control programmes for relevant Salmonella serovars, particularly where regional epidemiology and production objectives justify its use. Vaccines are not a substitute for biosecurity, sanitation or surveillance. Live and inactivated approaches differ in their immunological characteristics, and vaccination can also influence interpretation of some serological tests; therefore programmes should follow the product label and veterinary guidance (WOAH, 2024).

4. Gut Health and Competitive Exclusion

The intestinal microbiota is an important barrier against Salmonella colonisation. Competitive-exclusion cultures, probiotics, prebiotics, synbiotics and other microbiome-directed approaches have been investigated to reduce intestinal carriage. Proposed mechanisms include competition for attachment sites and nutrients, production of inhibitory metabolites, improvement of epithelial barrier function and modulation of host immunity. Evidence is heterogeneous, so the expected response should be evaluated under the actual farm conditions rather than assuming that one product or one organism will work uniformly in every flock (Shaji et al., 2023; Bakin et al., 2025).

5. Organic Acids and Feed/water Interventions

Organic acids and other feed or water interventions are used in some Salmonella-control programmes to influence bacterial survival and the gastrointestinal environment. Their performance depends on acid type, concentration, buffering capacity of the feed or water, delivery route and farm hygiene. A recent systematic review found feed/water additives to be the most frequently evaluated category of pre-harvest Salmonella interventions, although effectiveness varied among studies (Bakin et al., 2025).

6. Antimicrobial Stewardship

Routine antimicrobial treatment should not be considered the primary method for controlling Salmonella at flock level. WOAH notes that antimicrobial treatment has limited effectiveness for control, can interfere with detection, may select for antimicrobial resistance and can disrupt normal gut flora. Use of antimicrobials, when justified for individual clinical circumstances, should therefore be based on veterinary assessment, diagnostic information, local regulations and responsible-use principles (WOAH, 2024).

Breaking the Cycle: A Practical Farm Framework

Control point	What to check	Practical objective
Before placement	Breeder status, chick source, hatchery hygiene	Start with low-risk chicks and clean facilities
Feed & water	Feed hygiene, storage, water sanitation, biofilm	Prevent continuous re introduction
House environment	Litter, dust, beetles, rodents, flies, wild birds	Reduce environmental amplification
Flock monitoring	Environmental/cloacal sampling, mortality, production data	Detect contamination early
Immunity	Vaccination status and programme timing	Support protection against relevant serovars
After depopulation	Cleaning, disinfection, downtime and verification	Break carry-over between cycles

Key Field Messages

- A Salmonella-positive result should trigger an investigation of the source and transmission pathway, not just a treatment response.
- Different serovars behave differently; the control programme should be based on the Salmonella identified or suspected in the production system.
- Breeder and hatchery control has a major downstream effect because vertical introduction can seed large numbers of chicks.
- Rodent, insect, litter, feed and water management are interconnected parts of the same epidemiological chain.
- No single feed additive, acidifier, probiotic or vaccine should be expected to replace biosecurity and surveillance.

Stallen South Asia Pvt. Ltd. — Salmonella Vaccination Approach

Stallen South Asia Pvt. Ltd. offers BIO-VAC SGP 695, a live attenuated vaccine for oral suspension against fowl typhoid and Salmonella Enteritidis infection.

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Indication: Immunization of poultry against fowl typhoid and Salmonella Enteritidis infection. The supplied product information describes protection against clinical effects and a reduction in Salmonella colonisation of visceral organs in vaccinated birds.

Administration: The supplied product information recommends administration through drinking water. After dissolution in water, the vaccine should be used within 3 hours.

Recommended age: BIO-VAC SGP 695 is indicated for vaccination of pullets at 6–8 weeks of age, followed by a second vaccination at 16–18 weeks of age.

Dosage: Use 1 dose per bird according to the approved product label. The supplied leaflet specifies a pack size of 1000 doses.

Storage: Store the freeze-dried vaccine at +2°C to +8°C. Do not freeze.

Field approach: BIO-VAC SGP 695 should be used as part of an integrated Salmonella-control programme together with biosecurity, hatchery hygiene, feed and water management, vector control and surveillance.

The product-specific information above is based on the Stallen BIO-VAC SGP 695 material supplied for this article. The current approved product label and local regulatory instructions should be followed.

Conclusion

Salmonella control in poultry is best understood as a cycle that links introduction, intestinal colonisation, environmental amplification, shedding and re-exposure. In layers and breeders, reproductive-tract colonisation adds an additional route through which infection can reach eggs and progeny. The most durable strategy is therefore an integrated programme combining monitored sources of birds, hatchery hygiene, feed and water protection, vector control, litter management, surveillance, vaccination where appropriate and responsible use of gut-health interventions. The objective is not simply to suppress clinical disease, but to reduce colonisation, shedding and the probability that Salmonella moves from one flock or production stage to the next (WOAH, 2024; Wang et al., 2023).

EVENT CALENDER

NOVEMBER 2026
EuroTier 2026
10-13 November 2026
Venue : Exhibition grounds, 30521 Hanover, Germany
Phone : +49 (0) 69/24 788 433
Email : eurotier@dlg.org
Web : www.eurotier.com

Poultry India Expo 2026 | Knowledge Day - 24th Nov. 2026
25-27 NOV 2026
Venue : HITEX Exhibition Complex, Hyderabad
Contact Person : Ms. Radhika
Phone : 7997994338/1/2
Email : office3@poultryindia.co.in, president@poultryindia.co.in
Web : www.poultryindia.co.in

DECEMBER 2026
41st Indian Poultry Science Association Conference
16-18 December 2026 (IPSACON)
Venue : Conference Venue, Veterinary College, Hebbal, Bangalore Karnataka – 560024
Contact Person : Dr. T. N. Krishnamurthy
Phone : +91 99005 19138
Email : ipsacon2026@gmail.com
Web : www.ipsacon2026.in

JANUARY 2027
INTERNATIONAL PRODUCTION & PROCESSING EXPO (IPPE) 2027
26–28 JANUARY 2027
Venue : Georgia World Congress Center, Atlanta, GA 30313, USA
Phone : +1 770-493-9401
Email : info@ippexpo.org
Web : www.ippexpo.org

FEBRUARY 2027
13TH KOLKATA INTERNATIONAL POULTRY FAIR 2027
12–15 FEBRUARY 2027
Venue : Biswa Bangla Exhibition Center, Newtown, West Bengal
Phone : +913340515757 / +919051555506 / 7719362347
Email : info.kipf@yahoo.com
Web : www.ipfkol.com
Note: February 12 is for the Novacon technical seminar and fair inauguration; the main exhibition is February 13–15.

MARCH 2027
VIV ASIA 2027
10–12 MARCH 2027
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E-mail : dhirajmohan35@yahoo.com, hitechnutritions@yahoo.in
Mr. Dhiraj Choudhry-99914-11111, Mr. Madan Choudhry - 99913-11111

Ventri Biologicals Hosts

Technical Seminar on Hatchery Vaccines and Vaccination in Lucknow

Ventri Biologicals Pvt. Ltd. organised a technical seminar on **"Hatchery Vaccines and Vaccination: Catching the Future"** at **Hotel Centrum, Lucknow, on 18 September 2026**, highlighting the pivotal role of hatchery vaccination in strengthening early protection and shaping the future of poultry health management.

The meeting opened with a welcome address by **Mr. Deepak Khosla, General Manager (Marketing)**, who reaffirmed Ventri Biologicals' commitment to advancing poultry health through science-based solutions and sharing practical knowledge with the industry.

Dr. Prakash Reddy emphasised that **understanding emerging pathogens is essential to designing effective disease-control strategies**. He highlighted the importance of identifying their vulnerabilities, transmission routes—particularly vertical transmission—and mechanisms of immune evasion.

He outlined how **genotype-based vaccines, vector vaccines, and immune complex vaccines** are expanding the possibilities for poultry disease prevention and management. He stressed that vaccine selection should be guided by the disease challenge, scientific evidence, and flock requirements, with continued monitoring of protection, safety, and changes in circulating pathogens.

Concluding his presentation, he highlighted **innovative hatchery vaccination methods adopted in India**, including semi-automated subcutaneous vaccination and spray vaccination of day-old chicks. These methods support rapid, accurate mass administration when backed by trained personnel, proper equipment calibration, and routine checks to minimise vaccination errors, missed chicks, and adverse vaccine reactions.

The programme featured an expert panel comprising **Mr. Deepak Khosla (GM), Dr. K. P. Kale (GM), S. D. Lakra (GM), Dr. Prakash Reddy (DGM), and Dr. Rakesh Gupta (GM)**. Their participation brought together technical and industry perspectives, providing a platform for knowledge sharing on hatchery vaccination and poultry health.

The seminar reflected Ventri Biologicals' commitment to supporting the poultry industry through technical education and engagement with experts, with a focus on advancing vaccination practices.

The programme concluded with a vote of thanks by **Mr. Harjit Padda, (DGM) , and Mr. Shashi Bhushan (AGM)**, expressing appreciation to the speaker, expert panel, and participants for their contributions.











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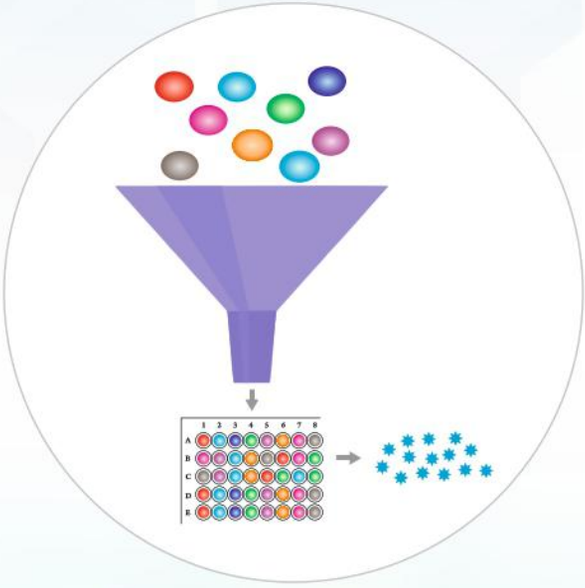

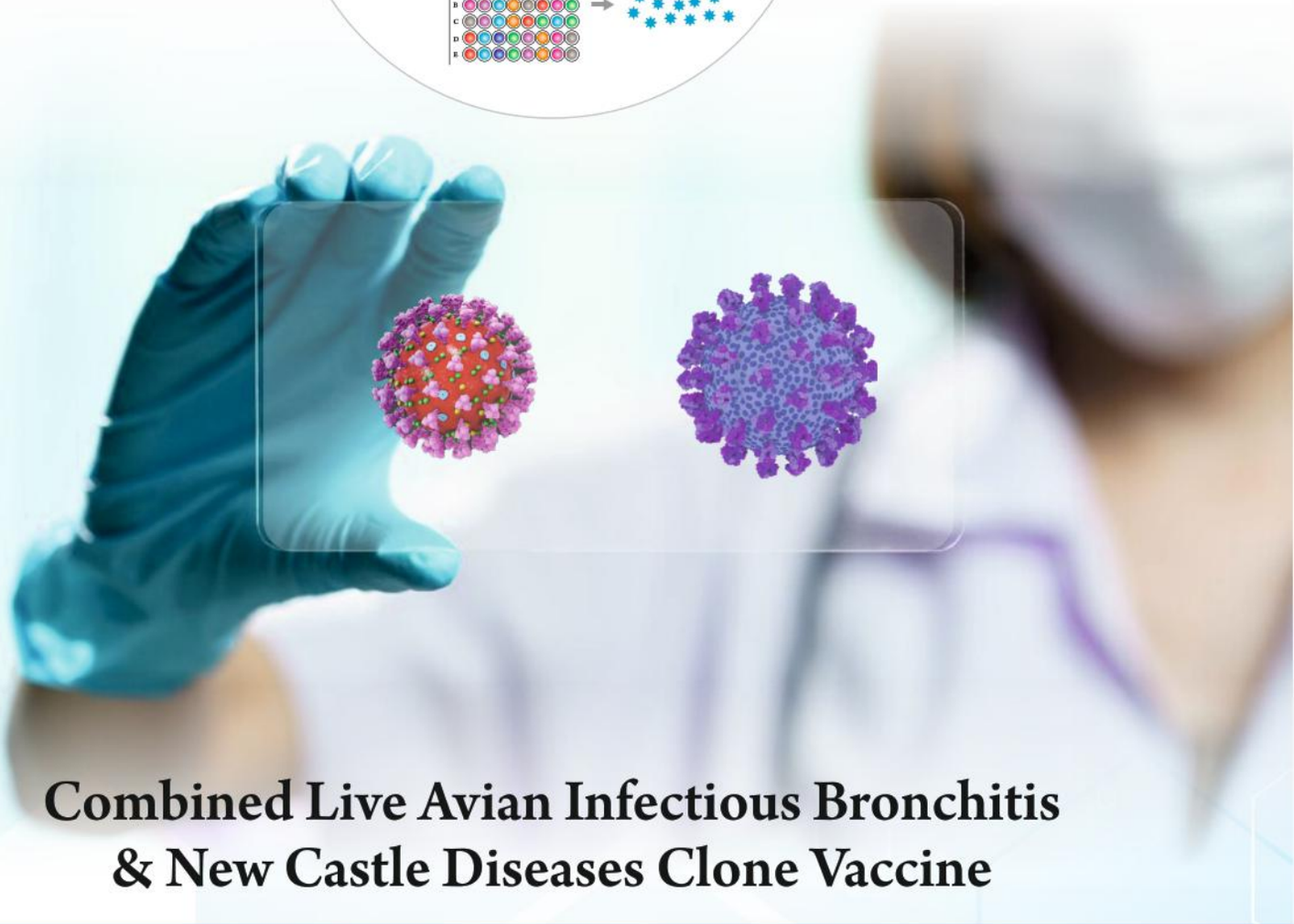

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Quality and technology, from feed mill to flock

At the Next Gen Poultry Wellness Seminar, Zeus Biotech connected practical feed quality control with a life-cycle approach to layer nutrition, gut health, immunity and production resilience.





Quality in poultry production is often described through specifications, laboratory values and finished-product checks. However in practice, the approach should be broader: quality begins with the raw material, is protected through controlled processing and analytical verification, and is meaningful only when it produces a consistent biological response. Technology is judged in the same way. A strain, enzyme, mineral complex or phytomolecule becomes useful only when its identity, stability, relevance and response can be demonstrated.

That philosophy shaped the Next Gen Poultry Wellness Seminar. Dr Channegowda, Senior Field Veterinarian, Poultry & Livestock Nutritionist, addressed practical feed processing and quality control of layer mash, while Dr. Arunchand, Head of Quality & Research, examined layer poultry life-cycle challenges, interventions and the uncertainties that should be considered before routine use of any technology. Together, the sessions linked feed-mill precision with bird-level resilience.

The central message was simple: reduce avoidable variation first, then apply validated tools according to the real feed matrix, production phase and biological challenge.

"Quality is not a final checkpoint. It is a chain of decisions that begins before the mixer and continues until the bird responds."

For Zeus Biotech, quality control and technology evaluation therefore belong in the same decision process—from raw-material selection and manufacturing control to finished-product verification and field relevance.

"Control what can be measured. Validate what is claimed. Apply technology where biology needs it."

Quality Begins Before The Mixer

Dr Channegowda presented feed quality as a sequence of practical controls rather than a single laboratory certificate. Procurement and storage are followed by physical inspection, representative sampling, processing and nutrient verification. Truck condition, weight, colour, odour, visible fungus, insects, lumps, adulterants and foreign matter are basic but decisive quality gates. Sampling is equally important because analysis can only be as representative as the sample sent to the laboratory.

NIR and wet-laboratory analysis add the next level of control, with attention to protein, fibre, ash, acid-insoluble ash, oil quality, calcium, magnesium and solubility. The objective is not merely to generate numbers, but to understand how an ingredient will behave in formulation, digestion and production.





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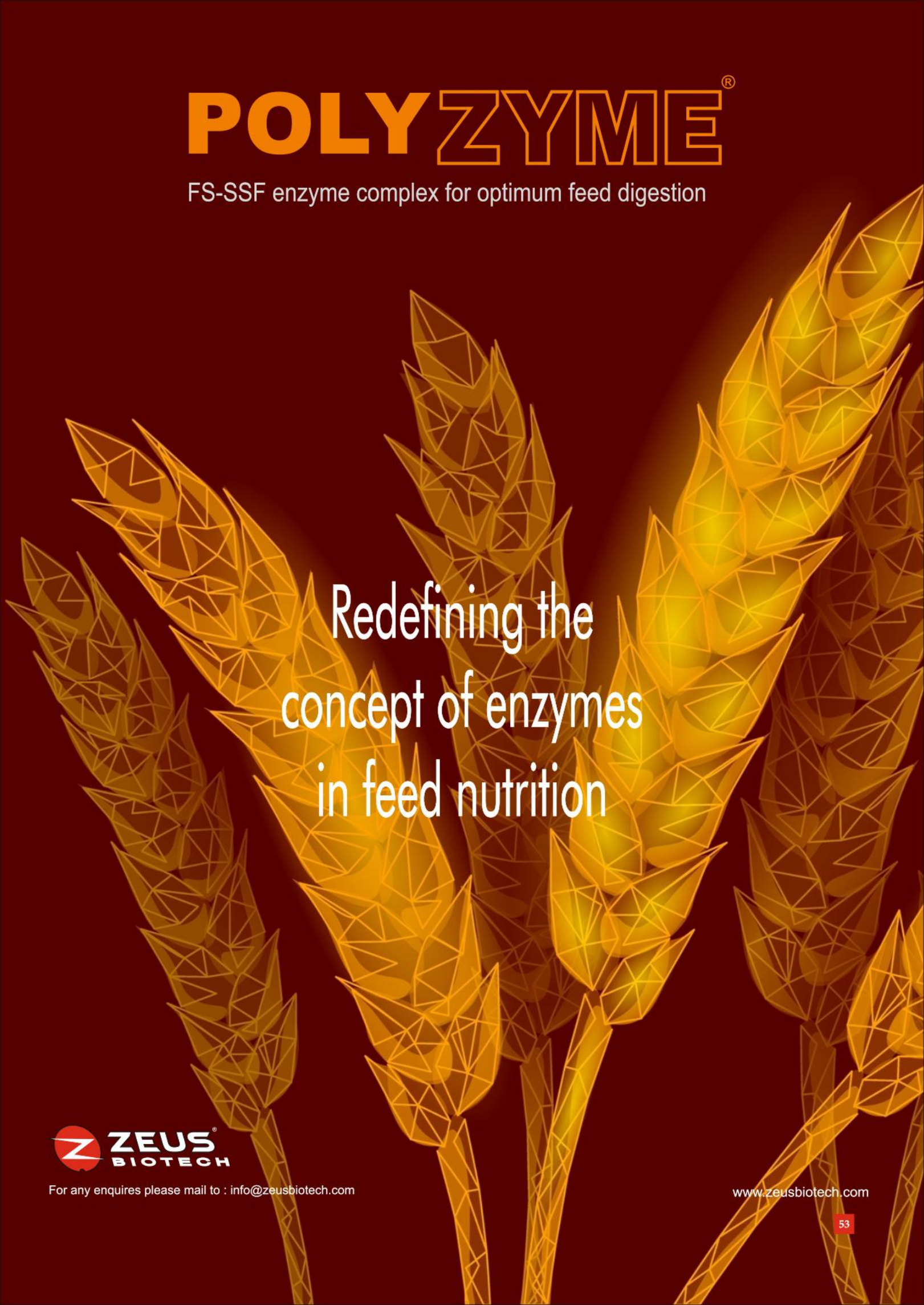

ZEUS BIOTECH

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Mash Quality Is More Than Formulation

For layer mash, formulation and physical structure are inseparable. Particle size affects intake and selective feeding, while grinding, hammer-mill screen size, loading sequence and mixer efficiency influence uniformity. The session highlighted the importance of maintaining a useful particle-size distribution, with most material in the 2-4 mm range while avoiding excessive fines and oversized fractions. Ingredient economics should also be judged by nutrient value—cost per calorie or cost per gram of protein—rather than price per kilogram alone.

Changeovers require the same discipline. Abrupt shifts in raw-material source or formulation can alter feed structure and substrate supply to the gut. Gradual change, moisture control, mould inhibition and good storage practices help reduce avoidable variability and mycotoxin risk.

The Bird Changes—so Must The Strategy

Dr. Arunchand extended the discussion from feed variability to biological variability. Early life is dominated by intake, microbiome establishment, brooding stress and pathogen exposure. Growers require digestibility, amino-acid use, mineral reserves, vaccination management and flock uniformity. Pre-lay introduces greater calcium demand and reproductive transition, while peak lay increases the need for feed conversion, gut stability, mineral transport and immune readiness. Later, persistency, shell quality, oxidative stress, immune fatigue and livability become increasingly important.

This life-cycle view changes how interventions are used: the same product class may have a different priority, dose or purpose at different stages.

Technology Must Prove Fit

The second session emphasized that an additive should be selected by evidence, not by a label claim alone. Enzymes should be evaluated by production method, enzyme spectrum, real-feed substrate relevance, processing stability and dose response. Probiotics require more than a high CFU count; strain identity, feed and heat stability, acid-bile survival, pathogen relevance, genomic safety and bird-level response all matter. Organic trace minerals require proof of safe inputs, controlled solubilisation, adequate ligand capacity, complex formation and bioavailability. Phytobiotics should be supported by identified actives, analytical fingerprints, pathway relevance and biological confirmation.

Polyzyme, Microguard, Organomin Forte and ProtectZ were used as examples of this evaluation logic, linking manufacturing method and analytical control with application-specific evidence.

Judicious Use, One Quality System

No additive class should be expected to solve every problem. Enzymes are primarily nutritional tools; probiotics support gut ecology; phytobiotics contribute to immune and stress support; trace minerals support metabolism, skeletal development and shell quality. Vaccines remain disease-specific preventive tools, while antibiotics retain a therapeutic role when clinically justified under veterinary guidance.

The same scrutiny must apply to the manufacturer. Raw-material identity and safety, controlled processing or fermentation, finished-product release testing, stability and field-relevant product development form one capability chain. This is the practical meaning of quality by design at Zeus Biotech: know the input, control the process, verify the output and confirm the biological response. When those steps are connected from feed mill to flock, technology becomes a tool for designing resilience rather than reacting to losses.











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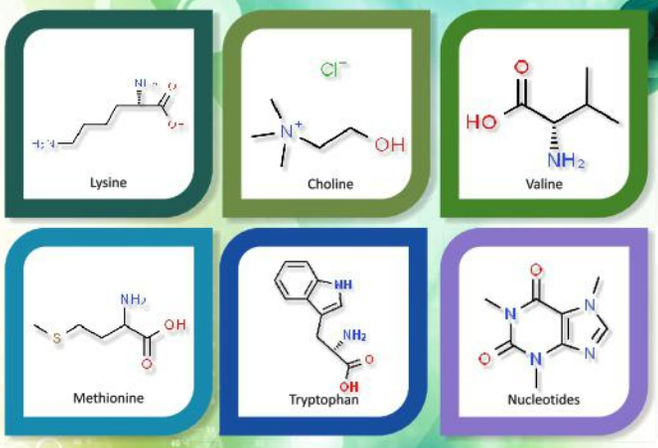

To achieve high efficiency poultry farming, a finely balanced feed formula with high bioavailability of feed nutritional fractions especially of critical ingredients including limiting amino acids, trace minerals etc., are required. To attain this balance, supplementation becomes extremely crucial to attain maximum bird performance and productivity.

Supplementation of limiting amino-acids and other related nutritional ingredients including major and trace minerals can support in improving the bird performance by assisting in providing additional nutritional molecules, to make up for any deficiency of critical nutrients in feed and feed ingredients.



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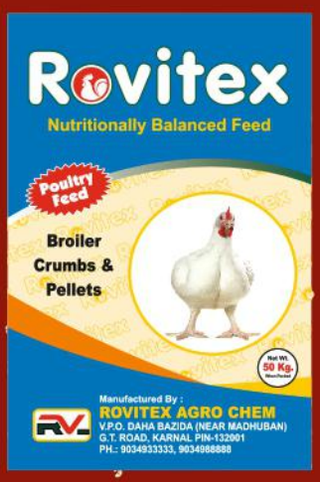
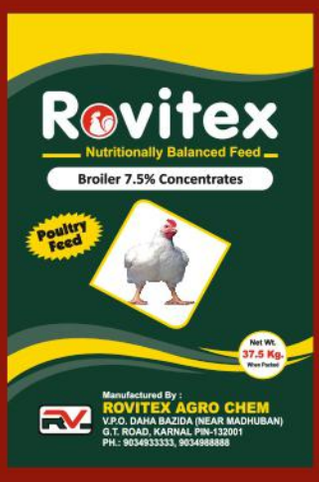
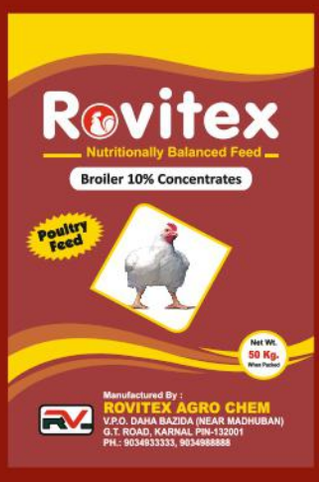
- Broiler 5.5% Concentrates
- Broiler 3.5% Concentrates
- Broiler 2.5% Concentrates
- Broiler 1.5% Concentrates

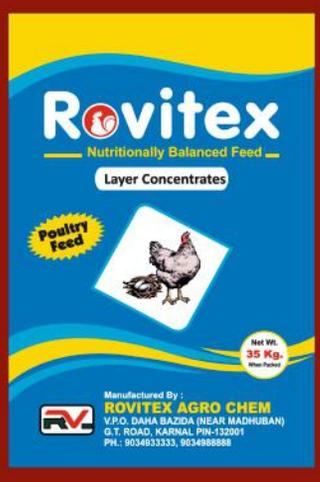
Layer Concentrates:
- Layer 5% Concentrates
- Layer 10% Concentrates
- Layer 25% Concentrates
- Layer 35% Concentrates

Broiler Crumbs/Pellets:
- Broiler Pre-Starter Crumbs
- Broiler Starter Crumbs
- Broiler Finisher Pellets









ROVITEX AGRO CHEM

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Dealers enquiries solicited from unrepresented areas

Respiratory Health in Poultry

From Understanding Respiratory Syndrome to a Phytogenic Support Strategy

Dr. Sridhar Selvapandian, Dr. Sushant Mhatre, Dr. Jayanta Bhattacharyya

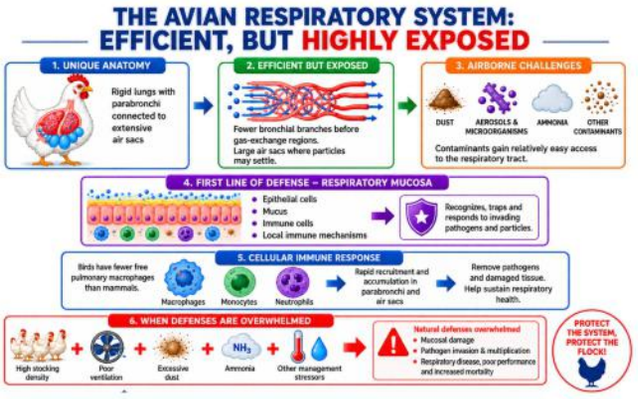
Introduction:

Global research and practical experience indicate that respiratory diseases constitute approximately 30-50% of all poultry diseases. Common respiratory diseases include Newcastle disease (Bakar et al., 2025), avian influenza (Blagodatski et al., 2021), infectious bronchitis, chronic respiratory disease and fowl cholera (Zhou et al., 2025). Respiratory diseases have become a major concern because of their high incidence, strong infectiousness and significant impact on production efficiency.

These diseases can reduce growth rates and increase mortality, resulting in substantial economic losses and negatively affecting poultry health and welfare. Their occurrence is influenced by several factors, including viral diversity, seasonal changes, environmental conditions, stocking density and the complex avian respiratory system. Although improving ventilation and adjusting stocking density can help reduce disease pressure, these measures alone provide only limited mitigation (Zhou et al., 2025). Therefore, continuous monitoring of poultry health status and timely intervention are becoming increasingly important for reducing disease impact and maintaining production efficiency.

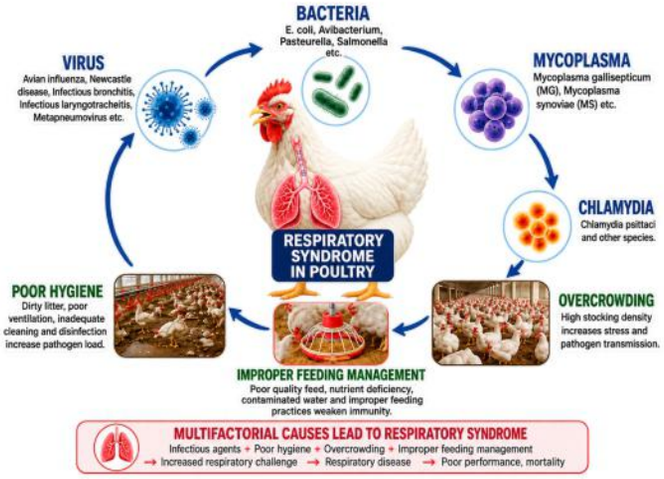
Respiratory syndrome: a complex disease rather than a single infection:

In poultry production, Respiratory Syndrome (RS) stems from both infectious agents and non-infectious conditions. Respiratory infections can be caused by a virus, bacteria, parasites or fungus and can affect the upper or lower respiratory tracts. Infectious aetiologies comprise viral, bacterial, *Mycoplasma*, and *Chlamydia* pathogens, whereas non-infectious causes frequently originate from substandard hygiene and suboptimal feed management.



Prominent viral pathogens include infectious bronchitis virus (IBV), avian influenza virus (AIV), Newcastle disease virus (NDV), and infectious laryngotracheitis virus (ILTV) (Liu *et al.*, 2025)

Avian respiratory syndrome spreads rapidly and exhibits high morbidity. In chicks, typical clinical signs comprise coughing, sneezing, dyspnea, tracheal rales, nasal discharge, periorbital edema, and lacrimation (Saif *et al.*,2008). In mature hens, infection frequently results in decreased egg production and compromised shell quality (Yehia *et al.*, 2023).Post-mortem anatomical evaluations often demonstrate pathological lesions, including



laryngeal and tracheal hemorrhages, excessive respiratory mucus accumulation, breast exudates, clouding of the air sac membranes, and pulmonary necrosis (Fletcher *et al.*, 2010 and Hefez H.M 2011)

Symptoms of Upper Respiratory Tract Infections:

- Sneezing
- Facial swelling
- Discharge and/or blockage of nares
- Yawning
- Open-mouth breathing
- Fatigue
- Head-shaking
- Eye discharge or watery eyes
- Stretching neck outward
- Change in voice

Symptoms of Lower Respiratory Tract Infections:

- Decreased activity
- Abnormal respiratory sounds such as crackling, honking or rales
- Change or loss of voice

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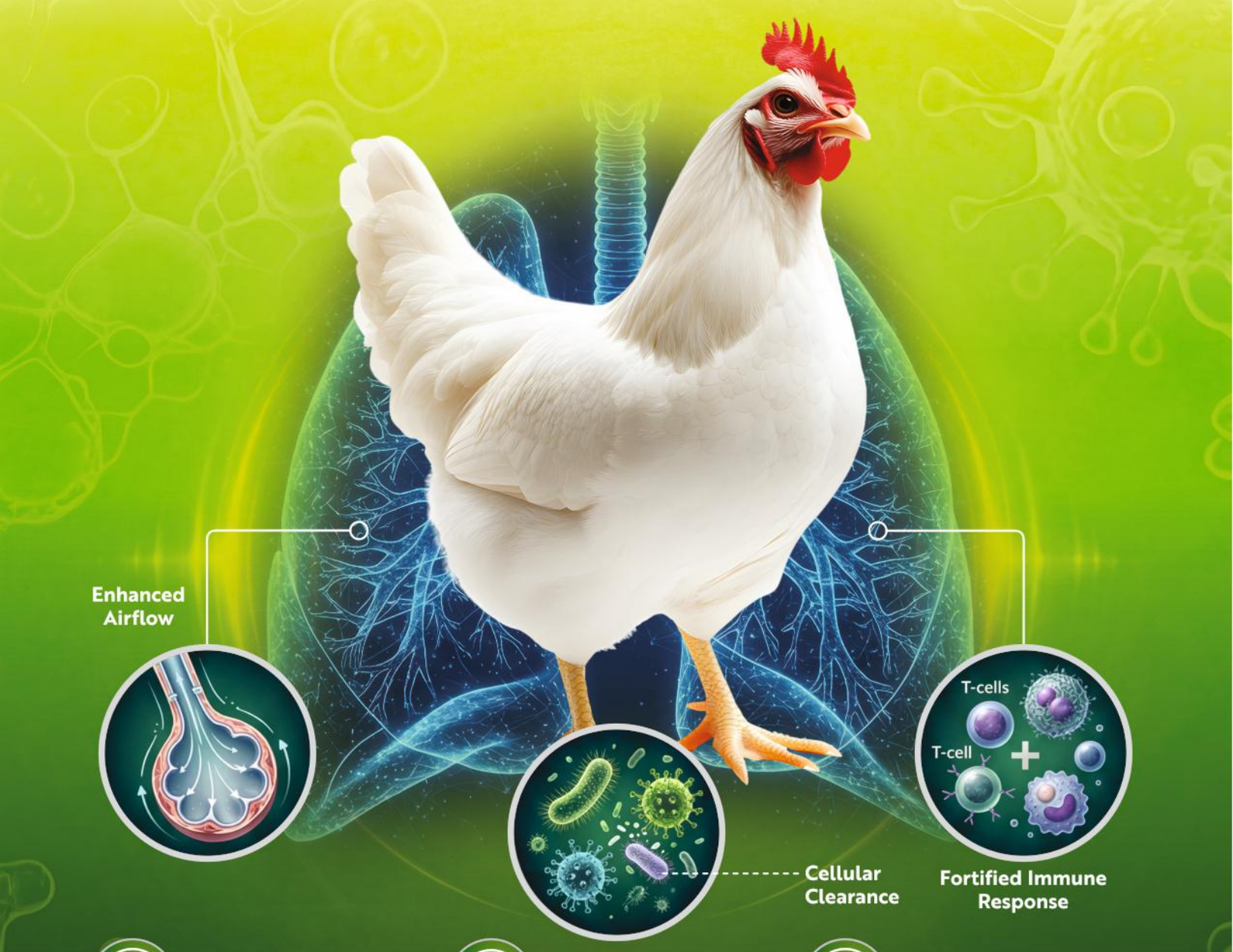

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- Labored respiration, open mouthed breathing
- Tail-bobbing (rhythmic jerking of the tail)
- Head-shaking
- Facial swelling
- Stretching neck
- Plugged nares or discharge
- Tearing or discharge from eyes
- Yawning

Nowadays, respiratory infections in poultry are **rarely caused by a single pathogen.** Instead, **mixed or co-infections involving Mycoplasma, viruses and bacteria are increasingly recognized in field cases**.

A study by **P. Yadav *et al.* (2022)** investigated **146 poultry flocks suspected of chronic respiratory disease (CRD) in Haryana and Rajasthan, India.** Overall, **49.31% (72/146) of the flocks were positive for Mycoplasma.** Among the 58 flocks carrying pathogenic *Mycoplasma* species (*M. gallisepticum* and/or *M. synoviae*), only **17.24% were single infections**.

The majority had concurrent infections:

- **17.24%** → *Mycoplasma* + APEC
- **43.10%** → *Mycoplasma* + IBV
- **22.41%** → *Mycoplasma* + APEC + IBV
- **Only 17.24%** → *Mycoplasma* alone

Prevention and Control of Respiratory Syndrome:

Effective management of respiratory syndrome requires an integrated, multifactorial strategy combining robust biosecurity, vaccination, optimized ventilation and environmental control, sound farm management, and early diagnosis. Diagnostic tools such as **culture, serology, PCR and RT-PCR** are essential for identifying respiratory pathogens and recognizing **complex or mixed infections.** Where antimicrobial treatment is indicated, **pathogen identification and antimicrobial-sensitivity testing** can support targeted therapy and help minimize unnecessary antibiotic use, thereby contributing to **antimicrobial-resistance stewardship.** Alongside these core interventions, strengthening **immune resilience** through essential nutrients such as **vitamins A, C, D and E, selenium and ß-glucans**, together with **phytogenics, immunomodulators and probiotics**, can support respiratory health and flock resilience.

□ Essential Oils: Multifunctional Phytogenic Bioactives

Essential oils (EOs) are volatile plant extracts obtained from parts such as **flowers, seeds, leaves, bark, herbs, fruits, wood and roots**, commonly through steam distillation. They contain complex mixtures of bioactive compounds, including **terpenoids, phenols and aromatic aldehydes**.

Key components include:

- **Terpenoids:** linalool, geraniol, borneol, menthol and α-terpineol
- **Phenols:** thymol, carvacrol, eugenol and guaiacol
- **Aromatic aldehydes:** cinnamaldehyde, cuminaldehyde and phellandral

The **multi-component nature of essential oils** allows different phytochemicals to exert complementary biological activities, potentially supporting **antimicrobial, anti-inflammatory, respiratory and immune functions** (Brenes *et al.*, 2010). Within this integrated respiratory-health strategy, **Bentoli's RespiraX™** is formulated to provide **six-way respiratory support: Antimicrobial Anti-inflammatory Bronchodilator Decongestant Expectorant Immunomodulator**

Conclusion: Why a Six-Way Approach?

Respiratory syndrome is **multifactorial**, with infection, inflammation, mucus accumulation, airway constriction, congestion and compromised host defence often occurring together. Therefore, a **single mode of action may not adequately address the different components of respiratory challenge**.

A six-way approach provides **complementary support across multiple aspects of respiratory health:**

- **Antimicrobial** → supports control of microbial challenges
- **Anti-inflammatory** → helps manage excessive inflammatory responses
- **Bronchodilator** → supports airway opening and airflow
- **Decongestant** → helps relieve respiratory congestion
- **Expectorant** → supports mucus clearance
- **Immunomodulatory** → supports the host's natural immune response

Together, these complementary activities aim to **support airway function, mucus clearance, inflammatory balance and immune resilience**, particularly during periods of respiratory challenge.



Dr. Sridhar Selvapandian
Livestock Nutritionist



Dr. Sushant Mhatre
AGM
Techno Commercial



Dr. Jayanta Bhattacharyya
Director
Techno Commercial

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Team ABTL visited the Sahgami Foundation, an NGO that provides free education to over 80 children of construction workers and laborers before admitting them to government schools. The foundation has been providing this social service for the past nine years. During our visit, we distributed eggs, educated the children on the benefits of daily egg consumption, and conducted several interactive activities related to World Egg Day.











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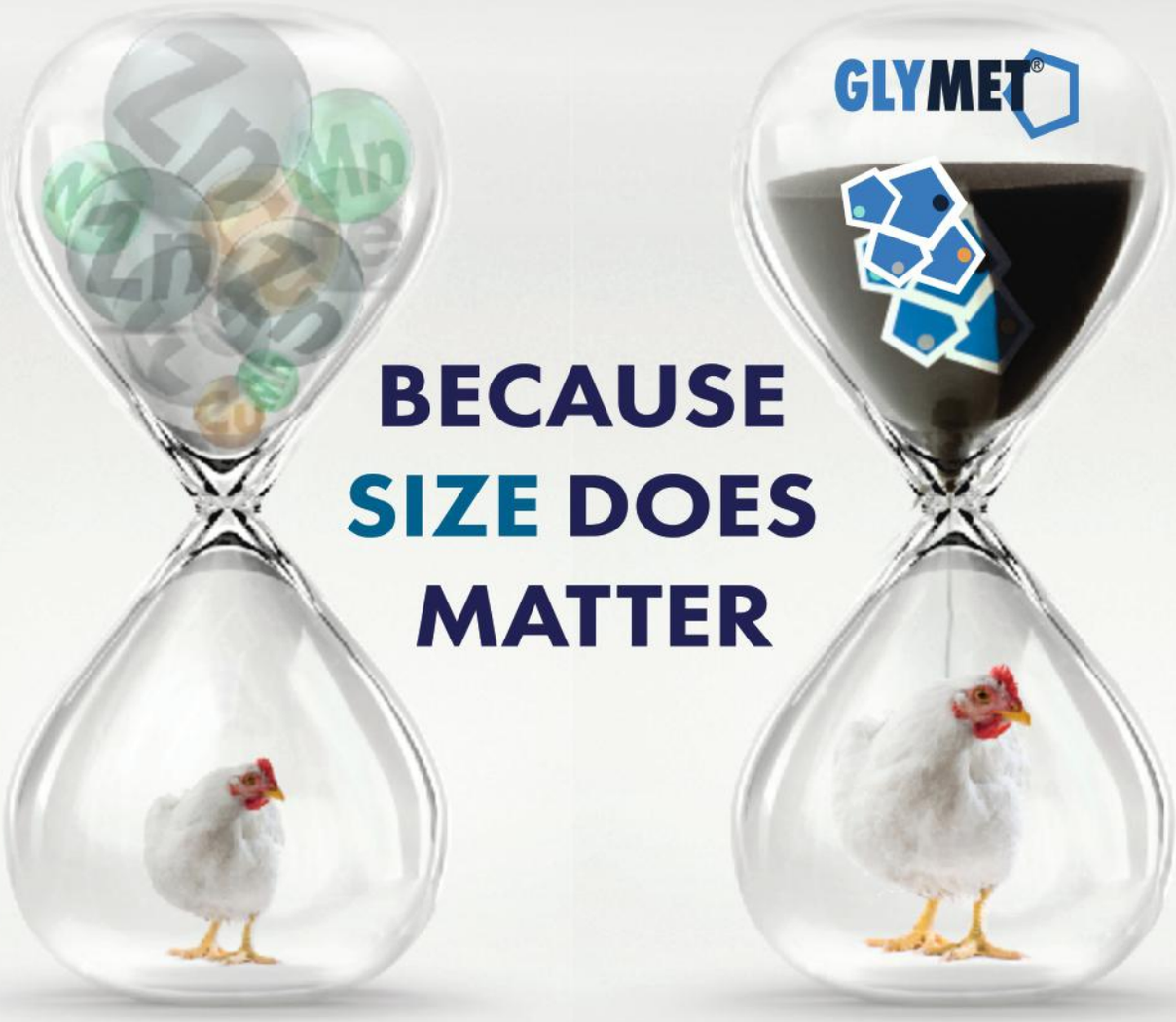

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Aviagen India Conducts Technical Workshop on Ventilation Management in Closed Broiler Houses

Aviagen India organised a two-day technical workshop on *Ventilation Management in Closed Broiler Houses* on October 6-7, 2026, at Pride Amber Vilas Resort, Jaipur, Rajasthan. The programme brought together poultry industry professionals for technical learning, knowledge exchange and discussions on effective ventilation strategies for modern broiler production.

The workshop commenced with a welcome address by Dr. Ramakrishna, Business Manager, Aviagen India, who welcomed the speakers and participants and highlighted the importance of technical education and effective environmental management in addressing the evolving challenges of broiler production.

The technical programme featured sessions by **Andrew Bourne, Bernard Green, Mike Block and Dr. Sivakumar**, bringing together specialist knowledge and practical experience in ventilation management and closed-house operations. The sessions covered key areas including ventilation principles, brooding management, environmental control, water quality and biosecurity. Discussions focused on understanding ventilation systems, managing housing conditions and applying appropriate management practices to address practical on-farm challenges.

With changing climatic conditions and the growing adoption of closed-house systems, effective ventilation management is increasingly important for maintaining suitable housing environments and supporting bird health and welfare. The technical sessions provided participants with practical insights into environmental management and the application of ventilation principles under India's diverse climatic and production conditions.

An interactive quiz added an engaging dimension to the workshop, encouraging participants to revisit key technical concepts, test their understanding and actively participate in the learning process. The quiz also promoted healthy competition, reinforced important management principles and encouraged greater interaction between participants and technical experts.

The programme provided a valuable platform for poultry professionals to exchange field experiences, discuss operational challenges and learn from technical specialists. The combination of expert-led presentations, interactive learning and open discussions helped reinforce the importance of informed decision-making and consistent on-farm management.

The workshop reflects Aviagen India's continued commitment to technical education and knowledge sharing across the poultry industry. By facilitating access to relevant expertise and practical management insights, Aviagen aims to support poultry professionals in responding to the evolving needs of modern broiler production.

The programme concluded with a renewed emphasis on continuous learning, effective environmental management and sound husbandry practices as essential elements of responsible and sustainable poultry production.



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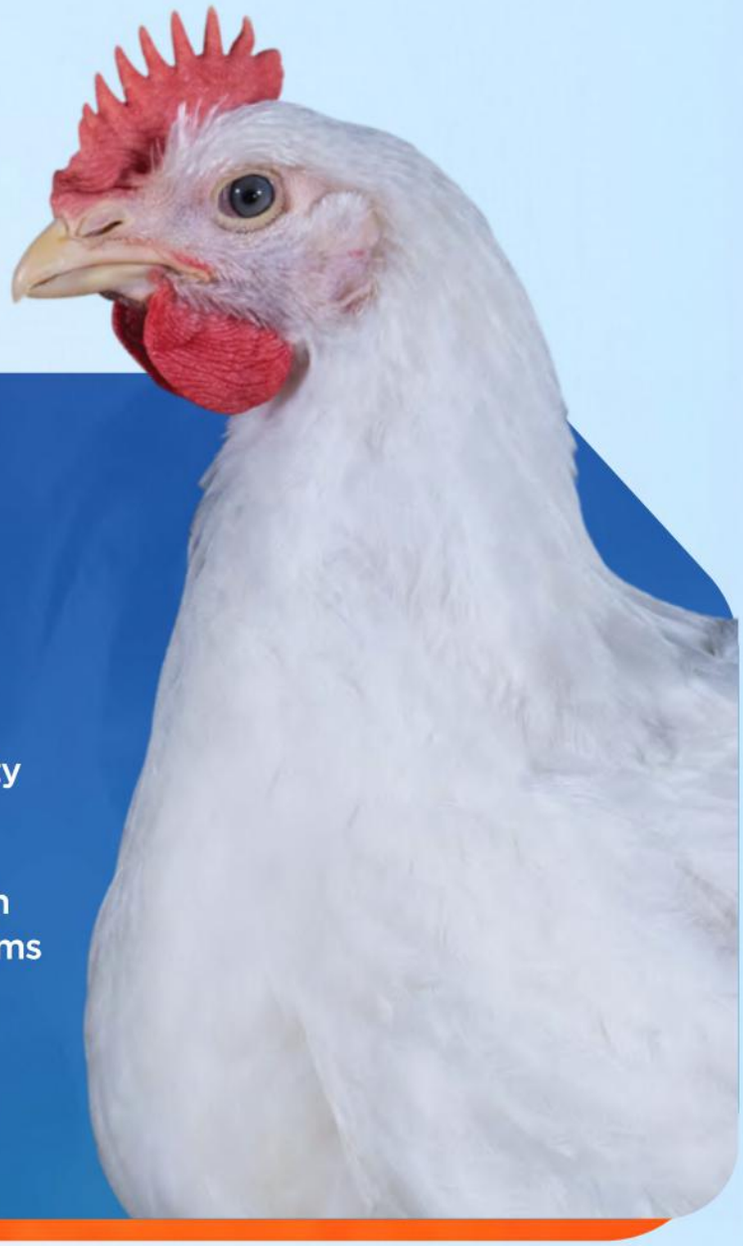

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ROSS 308 AP

BEST ACHIEVERS
SEPTEMBER -2026

Aviagen® INDIA

Northern Region

COMPANY: Sampoorna Feeds

FARMER NAME: Mr. Maninderpreet Singh



SEP-2026	Top #1
Farm Type	Open House
State	PUNJAB
Chicks Placed	7,786
Mean Age	34
Avg Body Wt	2554
FCR	1.17
cFCR	1.05
Livability%	93.7
Daily Gain	75.5
EPEF	602

Eastern Region

COMPANY: IB Group

FARM NAME: Mr. Noor Alam

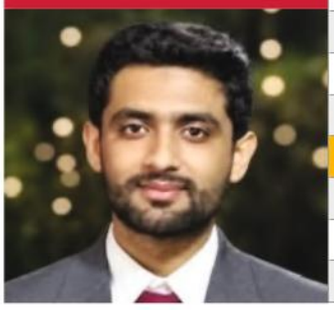


SEP-2026	Top #1
Farm Type	Open House
State	BIHAR
Chicks Placed	1,544
Mean Age	40
Avg Body Wt	2,849
FCR	1.44
cFCR	1.25
Livability%	92.4
Daily Gain	71.2
EPEF	455

Central Region

COMPANY: IB Group

FARMER NAME: Mr. Mehnaz Muslism



SEP-2026	Top #1
Farm Type	Closed House
State	MADHYA PRADESH
Chicks Placed	17,651
Mean Age	43
Avg Body Wt	3,301
FCR	1.56
cFCR	1.27
Livability%	94.9
Daily Gain	76.8
EPEF	465

South Region

COMPANY: IB Group

FARMER NAME: Mr. Peyala Pullamma



SEP-2026	Top #1
Farm Type	Closed House
State	ANDHRA PRADESH
Chicks Placed	15,323
Mean Age	40
Avg Body Wt	3,124
FCR	1.53
cFCR	1.28
Livability%	94.3
Daily Gain	78.1
EPEF	479

September 2026 -Top PERFORMANCE BY AREA

Area	Chicks Placed	Mean Age(Days)	BW	FCR	cFCR(2Kg)	Livability%	Daygain	EPEF
North EC House	14,005	34	2,400	1.34	1.25	95.0	71.1	504
North Open House	7,786	34	2,554	1.18	1.05	93.7	75.5	602
East EC House	4,678	35	2,578	1.49	1.36	96.0	73.7	476
East Open House	1,356	35	2,543	1.49	1.37	95.7	72.7	467
Central EC House	6,591	33	2,470	1.40	1.30	94.8	74.6	505
Central Open House	10,650	31	2,180	1.45	1.41	93.8	69.6	450
South EC House	20,484	40	3,107	1.54	1.29	95.8	77.7	483
South Open House	2,335	37	2,454	1.43	1.33	95.7	66.3	442

September 2026 -Top 10 FIELD PERFORMANCE

Flock	Farm Type	State	Chicks Placed	Mean Age	BW	FCR	cFCR	Livability%	Day Gain	EPEF
Flock 1	OPEN HOUSE	PUNJAB	7,786	34	2,554	1.18	1.05	93.7	75.5	602
Flock 2	OPEN HOUSE	PUNJAB	5,865	34	2,583	1.32	1.19	96.2	75.6	551
Flock 3	OPEN HOUSE	PUNJAB	10,946	33	2,422	1.26	1.17	94.1	72.7	543
Flock 4	OPEN HOUSE	PUNJAB	5,677	28	1,932	1.22	1.24	95.3	69.0	539
Flock 5	OPEN HOUSE	PUNJAB	35,596	35	2,648	1.35	1.21	95.0	76.5	538
Flock 6	OPEN HOUSE	HARYANA	10,000	34	2,526	1.34	1.22	96.6	74.3	535
Flock 7	OPEN HOUSE	PUNJAB	9,025	33	2,405	1.31	1.22	95.7	72.8	531
Flock 8	OPEN HOUSE	PUNJAB	18,490	32	2,420	1.35	1.26	95.3	75.2	531
Flock 9	OPEN HOUSE	PUNJAB	18,293	34	2,491	1.33	1.22	95.1	74.2	530
Flock 10	OPEN HOUSE	PUNJAB	18,001	34	2,550	1.36	1.24	95.1	74.5	521

ROTEM enters its next phase

decades of agricultural climate control technology now under Speria



Rotem, an established name in agricultural climate control and farm management, continues to build on decades of experience and technology as part of Speria, bringing renewed focus and momentum to the brand and its customers.

For decades, Rotem has developed technology designed around the real conditions of agricultural operations. From poultry houses and swine farms to commercial greenhouses, Rotem has helped producers manage the environmental and operational conditions that matter every day, including temperature, ventilation, humidity, feeding, water, weighing, alarms and remote management. Rotem is the original manufacturer, innovator and producer behind the Trio Controller, the Greenfield Controller and the AC2000, technology that remains central to how producers run their operations today.

That experience remains at the heart of Rotem now.

Now, as part of Speria, Rotem continues as a distinct product brand, with its established expertise and product offering brought together under a refreshed brand presence.

"Rotem has a strong history in agricultural technology, built over decades of understanding what producers need from their control systems, as the original developers of the Trio, Greenfield and AC2000 controllers, that understanding runs deep. This next chapter gives us the opportunity to bring that experience and product expertise under the Rotem name, while being part of something much broader through Speria." Says Eran Levy, Managing Director of Rotem.

"There are no changes to Rotem's products or what they deliver, customers can continue to rely on the technology and performance they know, while we look forward to what we can build from here."

A new chapter for an established brand

The move reflects Speria's approach to bringing together established technologies and expertise across the food supply chain. Rotem remains a distinct product brand within Speria, with its own identity and product focus, while contributing to a more connected offering of technology, software, data and services.

"Rotem brings decades of experience, strong product knowledge and a recognised position in agricultural technology." says Pia Brantgärde Linder, Global President of Speria and GVP of Munters Group *"This is not about changing what customers rely on. It is about building on what already works and creating greater opportunities to connect technologies across the food supply chain."*



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Traceability in hatcheries

from compliance to strategic advantage

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In today's poultry industry, traceability is becoming a cornerstone of compliance, performance and reputation. As hatcheries scale up and face growing pressure from retailers and consumers, the ability to track every step of the process is turning into a competitive differentiator. This article highlights why traceability matters more than ever, what it enables in practice, and how hatcheries can implement it as a strategic tool that safeguards compliance while driving continuous performance optimization.

Why traceability is growing in importance

Pressure on hatcheries is increasing. Rising demands around **food safety and supply chain transparency** are reshaping poultry production, while hatchery operations themselves grow larger and more complex. Traditionally, hatcheries relied on manual records and operator experience to manage egg and chick batches. While once sufficient, these methods now fall short in environments where thousands of eggs move through multiple incubators and rooms every day.

The next step for traceability is therefore digital integration. Traceability is evolving into the ability to **digitally follow the journey of egg and chicks through every stage of the hatchery production process**. By linking physical actions to digital data, it creates a transparent flow of information that both ensures transparency and strengthens decision-making at every level.

What traceability enables

A well-designed traceability system does more than record data: it transforms how hatcheries operate. Here's what it makes possible:

- **Full process visibility:** From egg intake to chick delivery, every step is logged and traceable.
- **Performance optimization:** End-to-end traceability delivers performance gains from data-driven insights - insights that would otherwise remain hidden.
- **Error prevention**: Clear digital checkpoints guide hatchery operators and reduce the risk of mistakes.
- **Food safety and biosecurity assurance**: In the event of contamination, traceability allows for quick, targeted actions and full transparency.
- **Regulatory compliance and audit-readiness:** Traceability provides the documented proof needed to meet evolving standards.
- **Stronger customer trust:** Transparent processes and verifiable records reinforce credibility with retailers and end-users, strengthening overall reputation.

How Petersime helps to bring it into practice

At Petersime, we believe that **traceability should empower hatchery teams, not slow them down**. The Traceability module, part of the **Eagle Trax™ cloud-based software**, seamlessly links every physical trolley movement in the hatchery to data-driven intelligence in a clear and straightforward way.

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In this setup, every trolley carries a unique ID plate with QR code. When an egg batch is ready to be loaded onto the trolleys - whether at the farm, in transport, upon delivery or just before setting - the trolley QR codes are scanned and the egg batch data is logged. From that point on, **every trolley movement is tracked with precision.**

Every hatchery room and incubator also has its own QR code, and farm storage facilities or transport trucks can be included as well. As trolleys move through the process, operators scan the QR codes at each step, updating the location and status in real time. This creates a full digital trajectory that is automatically recorded in Eagle Trax™, **without requiring extra manual input.** It also acts as a safeguard for the staff: if an operator scans a trolley at the wrong incubator, skips a step or tries to move a batch outside its planned flow, the system flags it immediately.

In practice, this delivers:

- Automated, in-depth analysis of the entire trajectory, from breeder farm up to grow-out farm
- Exact locations, timings and conditions recorded automatically
- Next-level performance optimization and stronger error prevention

In summary

As customer expectations for transparency grow, the question for hatchery owners is no longer *whether* to embrace traceability, but *how* to make it work efficiently. Hatcheries that **invest in transparent, data-driven processes** gain more than just compliance - they unlock **sharper insights, stronger error prevention, greater efficiency and deeper customer trust.** Please don't hesitate to contact Petersime for more information about the Eagle Trax™ software.



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DR. CARLOS CAMPABADAL

Faculty Member, Department of Grain Science and Industry, Kansas State University

Dr. Carlos Campabadal is a faculty member at the Department of Grain Science and Industry at Kansas State University focusing his work on the International Grains Program Institute (IGP) as an extension specialist and leader focused on outreach in the areas of grain storage, quality and processing, U.S. grain grading, export systems, and feed manufacturing. He conducts applied research in stored product protection focusing on grains, oilseeds and its co-products. He is active in international development with several projects with USAID and USDA in Central America and in Africa. He was born and raised in Costa Rica, Central America.

He obtained his doctoral degree in Agricultural and Biological Engineering from Purdue University focusing on Stored Product Protection and was a part of the Post-Harvest Education and Research Center (PHERC). He obtained his master's degree in Agricultural Engineering at the University of Illinois focused on grain processing. Before, his graduate studies and after obtaining a B.S. degree in Mechanical Engineering from the University of Costa Rica, he worked in his family feed mill company for three and a half years as a process and maintenance engineer. His previous experience includes animal farm management in beef cattle and swine farms. Dr. Carlos has travelled throughout Latin America, Africa, Asia, and Europe as a technical consultant, and speaker in more than 35 countries and 50 short courses and seminars in the areas of grain storage and feed manufacturing for U.S. Grains Council, U.S. Soybean Export Council, U.S. Wheat Associates, USDA, WISHH, World Bank, and private companies. He has also presented his research at several scientific and professional conferences, and has several publications in scientific journals. He is still involved in his family feed manufacturing and farm business operations.



DR. WILMER JAVIER PACHECO

Extension Specialist and Associate Professor, Department of Poultry Science, Auburn University

Dr. Wilmer Pacheco was born in Honduras where he obtained a BS in Food Science in 2005. Shortly after graduation, Dr. Pacheco began a feed mill manager training program with Murphy Brown, LLC in Laurinburg, North Carolina where he was responsible for overseeing the production of approximately 10,000 tons of pellet feed per week. In June 2009, Dr. Pacheco was awarded a fellowship in the Department of Poultry at North Carolina State University, where he earned his Master's in Poultry Science and his Ph.D. in Physiology and Nutrition. Currently, Dr. Pacheco is an Associate Professor and Extension Specialist at Auburn University in the State of Alabama. His research activities are focused on understanding the interrelationships between feed processing and nutrition on broiler performance. Additionally, Dr. Pacheco conducts research on nutrition strategies to reduce production costs, improve broiler performance, and nutrient digestibility. Dr. Pacheco is lead or supporting author of 32 research articles and 88 news articles primarily in Feedstuffs magazine, which is the leading source of news for animal agriculture in the United States with 12,500 accredited subscribers. Dr. Pacheco has been invited to give more than 165 presentations in 16 countries, has served as chair or member of 25 graduate student committees, and has mentored 21 visiting scholars from 12 countries.

YOUR WEEKLY CHECK-IN NATIONAL EXPERT



MR. MEENAKSHISUNDARAM KANAGARAJ

Consultant

Mr. Meenakshisundaram Kanagaraj is a freelancing consultant, technical trainer, and speaker on feed milling. He holds a Post Graduate Diploma in Digital Instrumentation and a Bachelor's degree in Physics. He has worked for an instrumentation company, an auto ancillary components manufacturer, and a multinational animal feed additive manufacturer. He has successfully completed a course on Lean Six Sigma Black Belt by the American Society for Quality (ASQ) and a course on Fundamentals of Feed Milling Technology conducted by the American Feed Industry Association (AFIA). As a consultant, he is involved in new feed mill projects from design to commissioning. He has helped feed milling organizations improve quality and productivity.

What SEC Members Have to Say



Sreenivasa Rao Pagolu

Senior General Manager, The Waterbase Limited

With extensive experience across manufacturing and business operations. Over the years, my professional responsibilities have given me exposure to different aspects of operational management, process improvement, and business performance. Participating in the Soy Excellence Center program provided an opportunity to further broaden my perspective and connect industry knowledge with practical business and operational considerations. I found the learning relevant from a senior management standpoint, as it encouraged a more integrated understanding of how technical knowledge, efficient operations, and sound management practices collectively contribute to stronger industry performance. The program also offered a valuable platform for professional learning and exchange of perspectives that can be carried forward into day-to-day decision-making.



Dr. Arun Subhash P

Scientist, IAHVB, Bengaluru

With a background in animal nutrition, I joined the poultry course to deepen my understanding of areas beyond nutrition, including vaccination, farm management, biosecurity, marketing, value addition, and overall poultry enterprise operations.

The course was highly practical and covered the essential knowledge required to understand and establish a poultry enterprise. I particularly valued the weekly interactive sessions, which added current, field-oriented insights and helped address real industry challenges.

The flexible course design made it possible to complete the modules without disrupting regular professional responsibilities. Overall, the program broadened my knowledge, strengthened my confidence, and equipped me to provide more comprehensive guidance to farmers. I appreciate USSEC for creating a relevant learning initiative that supports skill development and adds value to the poultry industry.

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SYMBIO NUTRIENTS SHOWCASES GUT HEALTH EXPERTISE & SCIENTIFIC INNOVATION AT THE 37TH POULTRY FEDERATION OF INDIA (PFI) AGM, KOCHI

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Symbio Nutrients reinforced its growing position as an innovation-driven specialist in poultry gut health and advanced feed additive technologies through its participation as a Super Platinum Sponsor at the recently concluded 37th Poultry Federation of India (PFI) AGM, held at Grand Hyatt, Kochi, Kerala.

A key highlight of the Symbio's participation was a thought-provoking technical presentation on **"Appraisal of Acidifier Technology – A Novel Approach to Acidification and Introduction of Sodium Diformate."** The session challenged conventional perspectives on acidification, emphasizing the need to evaluate acidifiers beyond simple pH reduction, through critical scientific parameters including acid chemistry, active acid concentration, dissociation characteristics, antimicrobial efficacy and gastrointestinal availability.

The technical presentation introduced sodium diformate as an advanced approach to precision pathogen management, highlighting its distinctive crystalline double-salt chemistry and antimicrobial potential. This scientific advancement was showcased through DiformaxSYM, Symbio's indigenously manufactured sodium diformate-based innovation, reflecting its commitment to translating scientific expertise into practical poultry health solutions.



With gut health as a core area of expertise, Symbio Nutrients continues to build a differentiated portfolio of specialty innovations, including DiformaxSYM, Exovant, Bexvilli + and AML 40, addressing key aspects of intestinal integrity, microbial balance, pathogen management, and performance optimization. Complementing this portfolio is Nanosym TX, its advanced nanotechnology-based trace mineral solution.

The conference provided a valuable platform for meaningful engagement with industry leaders, poultry entrepreneurs, veterinarians, and nutritionists, strengthening Symbio's collaborative approach to addressing real-world industry challenges and trusted industry partnerships.

Driven by scientific excellence, specialized gut health expertise, indigenous manufacturing, and market-focused innovation, Symbio Nutrients continues to position itself at the forefront of progressive poultry nutrition, with the vision of delivering reliable, differentiated, and sustainable solutions for the poultry industry.

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Trouw Nutrition Shares

Five Take Home Messages from FeedTechnoVision 2026

FeedTechnoVision 2026, presented by Trouw Nutrition, Nutreco's livestock feed business, convened 180 feed industry stakeholders in Jaipur, India, 29-30 September. During the annual event, presentations and panel discussions including global feed industry experts explored the challenges and opportunities confronting Asia's feed sector. Following are five take home messages from FeedTechnoVision 2026.

1. **Asia's opportunity: Collaborate across the feed-to-food chain to drive growth.**

International agri-food strategist Osler Desouzart opened FeedTechnoVision 2026 by sharing his insights from his work in South America, and Brazil's emergence as the world's largest poultry exporter. Challenges facing Asia's feed-to-food chain include massive variability in raw materials and production processes, and a digital revolution that is still underway. Desouzart emphasized that feed industry stakeholders must work together to achieve more predictable, safe and efficient outcomes. He challenged the industry to improve collaboration among feed manufacturers, suppliers, academia, regulators, and other stakeholders. “Hunt in a pack and defend as a pack,” Desouzart advised, noting that collaboration can help increase the value of the entire Asian feed sector.

2. **Raw material variability can be transformed into predictable animal performance.**

Feed ingredients' nutritional values, microbial loads, and moisture profiles fluctuate across seasons, regions, and batches. Simply relying on ingredient “averages” when producing feed is no assurance of a finished feed's safety, quality, or nutrient profile. Ultimately, this gap between average and actual can compromise animals' genetic potential and performance. Reducing these risks starts with precise data. For example, there is a massive opportunity to improve FCR by reducing variability in raw materials, but the integrity of data is critical. Communication matters, too. Timely communication between procurement, quality, nutrition, and operations can identify issues earlier, bringing more precision to formulations, and more predictability to animal performance.

3. **Feed safety is a system, not a single intervention.**

Raw ingredient quality, process variations, mould, and microbial threats must be managed in feed production. During FeedTechnoVision, Dr. Roland Koedijk, Global Head of Poultry at Trouw Nutrition, discussed how even small changes in raw ingredient quality can affect a formulation's nutrition and impact animal performance. While feed safety is complex, the management logic that steers decisions is straightforward, moving from risk analysis, to interpretation, strategic intervention, verification and continuous improvement. An integrated approach addressing raw material quality, microbial and mycotoxin risk management, process control, monitoring, and verification offers a holistic process for supporting safe feed but is dependent on quality, nutrition, and operations teams making joint decisions and implementing integrated control measures.

4. **The feed mill of the future is perpetually learning.**

Feed-to-food safety measures must include operational processes that address microbial threats, optimize particle size, and achieve a proper moisture profile. Technology can help drive feed safety decisions but is not a panacea. The feed mill of the future will be defined by data that supports continuous improvement. Reliable data informs decisions and enhances process control. Improvements don't end when a batch leaves the feed mill. Shared feedback about quality and animal performance support ongoing production enhancements that move a feed mill from reactive measures toward predictive strategies that further optimise feed.












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5. People are at the centre of better decisions.

While data can drive insights, cross-functional collaboration among procurement, nutrition, operations, and quality teams is critical to achieve meaningful improvements. The most significant productivity gains in feed production will not come from optimising one function harder but from connecting all functions better. This view complements FeedTechnoVision's mission to serve as a knowledge exchange that advances understanding and generates a feedback loop to address customer challenges, share scientific and technical expertise, provide practical applications, and inspire continuous learning.

According to Pedro Caramona, Strategy Director - Feed to Food Safety at Trouw Nutrition, the overriding takeaway from FeedTechnoVision 2026 was the tremendous opportunity that exists to reduce variability and drive greater predictability in feed production throughout Asia. “By connecting human knowledge, precise data, enhanced processes, and collaborative teams, the feed sector can transform variability into predictable performance,” he stated. Organizers are planning to return to Latin America in 2027 for the fifth instalment of FeedTechnoVision.

About Trouw Nutrition

Trouw Nutrition is Nutreco's livestock feed business line and a global leader in the feed, farm, and health aspects of producing quality meat, eggs, and milk. We've spent nearly a century developing innovative feed products and more sustainable ways of raising healthy farm animals and companion animals.



We believe that animal nutrition and good farm management have the power to transform our industry and even our planet. Through our dedicated team of 8,300 experts and our global network, we work together with our customers to solve the challenges facing our feed-to-food chain and achieve our purpose of Feeding the Future.

With 71 manufacturing plants and a presence in 105 countries, Trouw Nutrition is everywhere our customers need us to be. We provide a one-stop-shop for feed specialities, feed additives, premixes, nutritional models, and customised, integrated services. Our global brands include NutriOpt™, Milkiwean™, Erliva™, Maxcare™, Sprayfo™, and Selko™. For more information, please go to trouwnutrition.com or follow us on LinkedIn.

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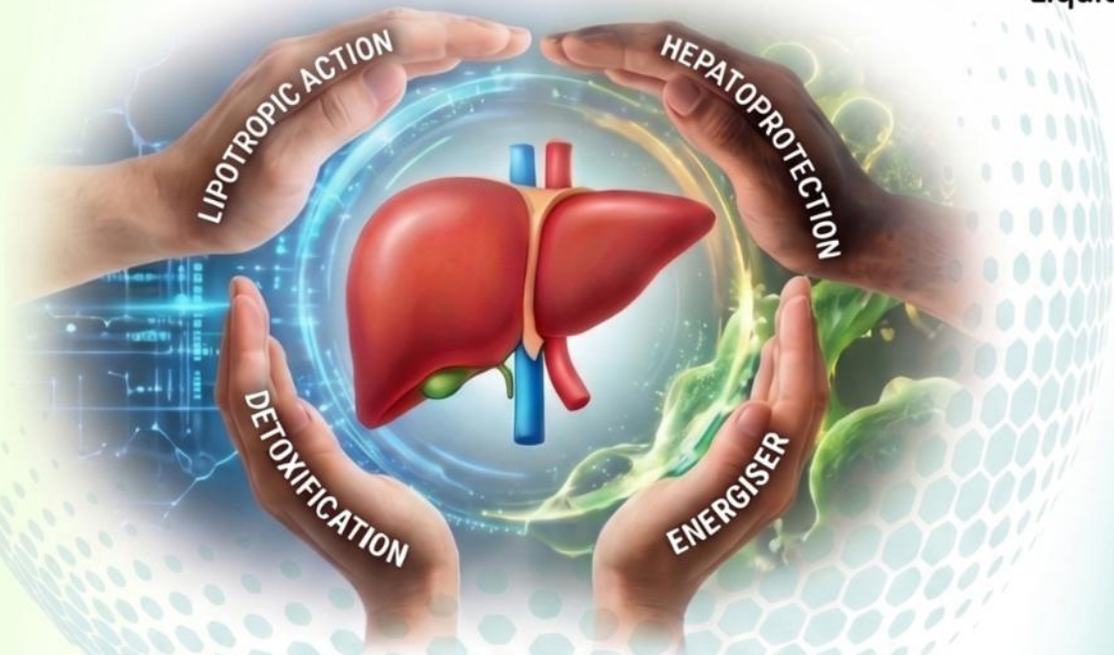

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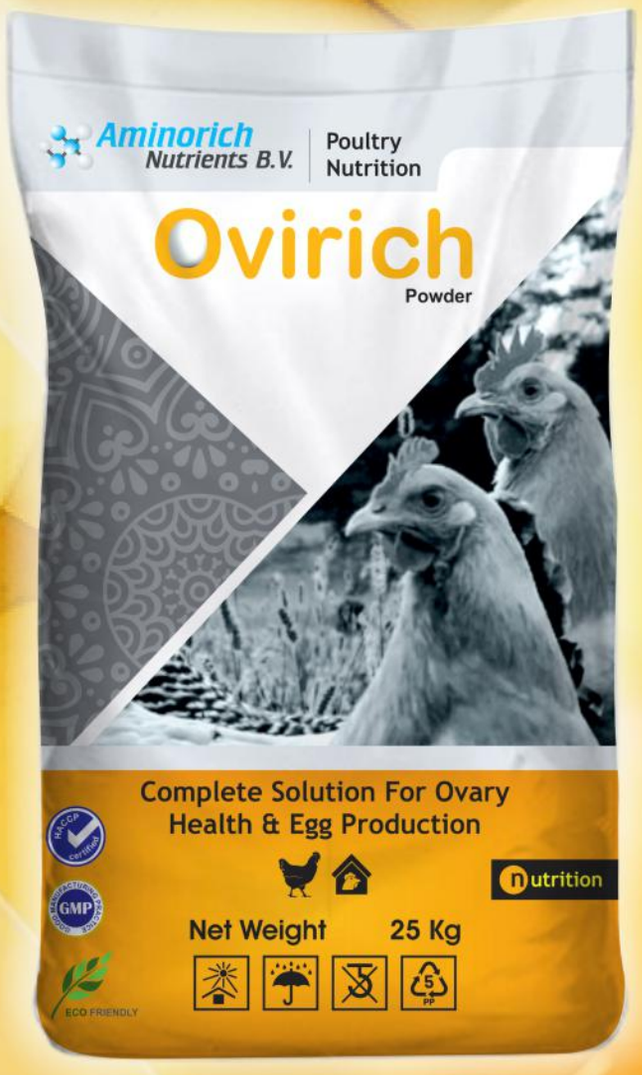



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At PVS Group, the philosophy is simple: ***"Seeing Is Believing, and Trust Is the Foundation of Every Lasting Partnership."***

During the previous month, PVS Group welcomed three international clients representing ***Sudan, Nigeria, and Rwanda*** *to visit its manufacturing units and corporate office. The visits provided an opportunity for the delegates to witness the Group's modern manufacturing infrastructure, advanced production facilities, DSIR-recognized Research and Development capabilities, and comprehensive quality control and quality assurance systems.*

The visiting clients expressed their satisfaction with the facilities and appreciation for the Group's commitment to quality, innovation, and customer-oriented solutions. They also recognized the scale of PVS Group's integrated capabilities across the ***poultry, veterinary, and aquaculture healthcare segments.***

A Visit That Builds Confidence and Creates Opportunities

For PVS Group, welcoming international clients is more than a formal visit—it is a commitment to transparency, confidence, and long-term collaboration. Seeing the manufacturing facilities firsthand enables partners to better understand the Group's technical expertise, product-development capabilities, quality processes, and potential to support their domestic animal healthcare markets.

Following their visits, the delegates identified promising business opportunities and expressed optimism about developing long-term business relationships with PVS Group. They also showed interest in utilizing the Group's product portfolio, technical expertise, and professional services to address animal healthcare requirements in their respective countries.

Strengthening India's Presence in Global Animal Healthcare

These international visits reflect the growing importance of direct engagement, technical understanding, and mutual confidence in building successful global business partnerships. PVS Group aims to support international partners with quality-driven products, innovative solutions, and dependable technical support tailored to the evolving needs of the animal healthcare industry.

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— Sudanese Business Partner





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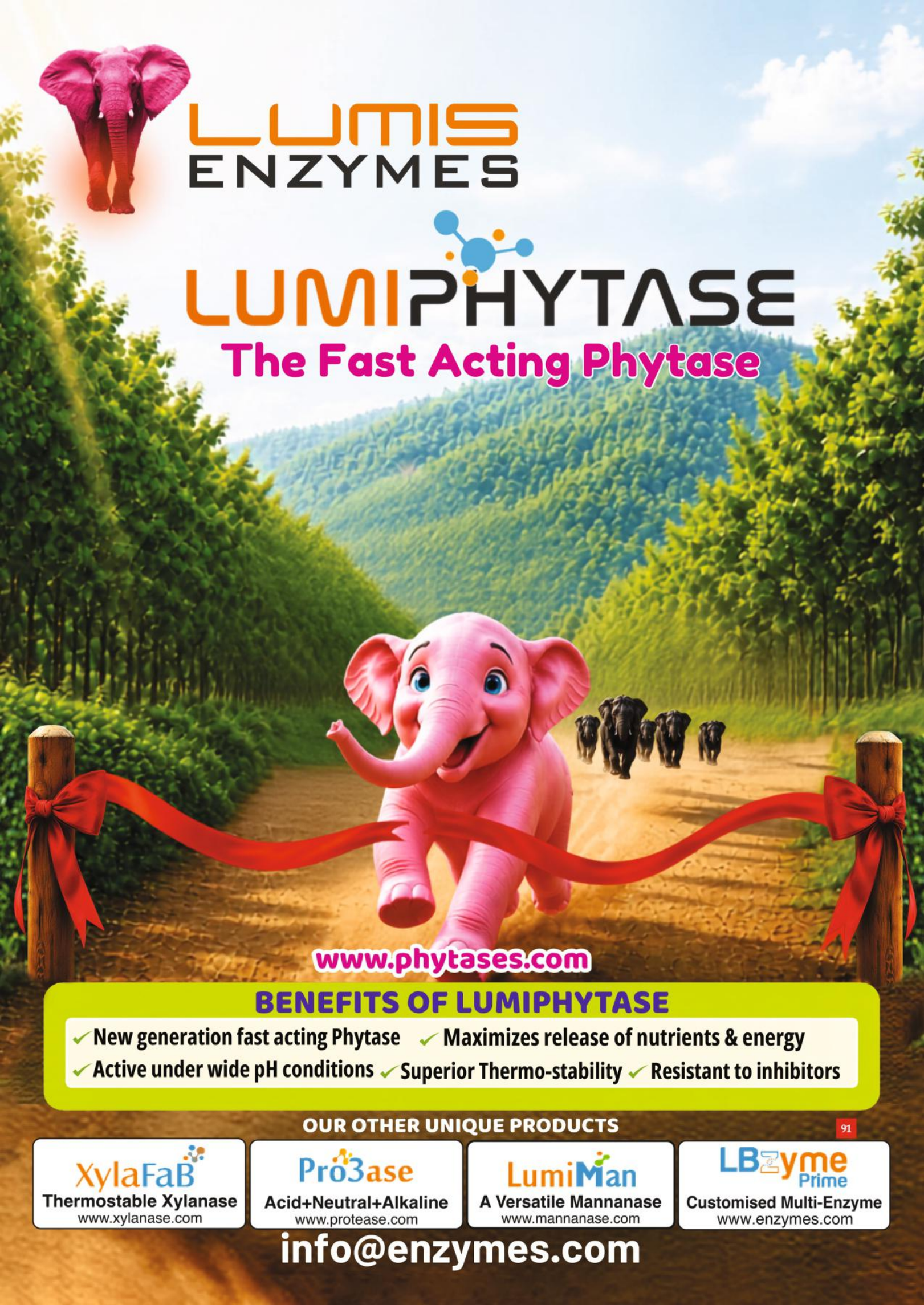
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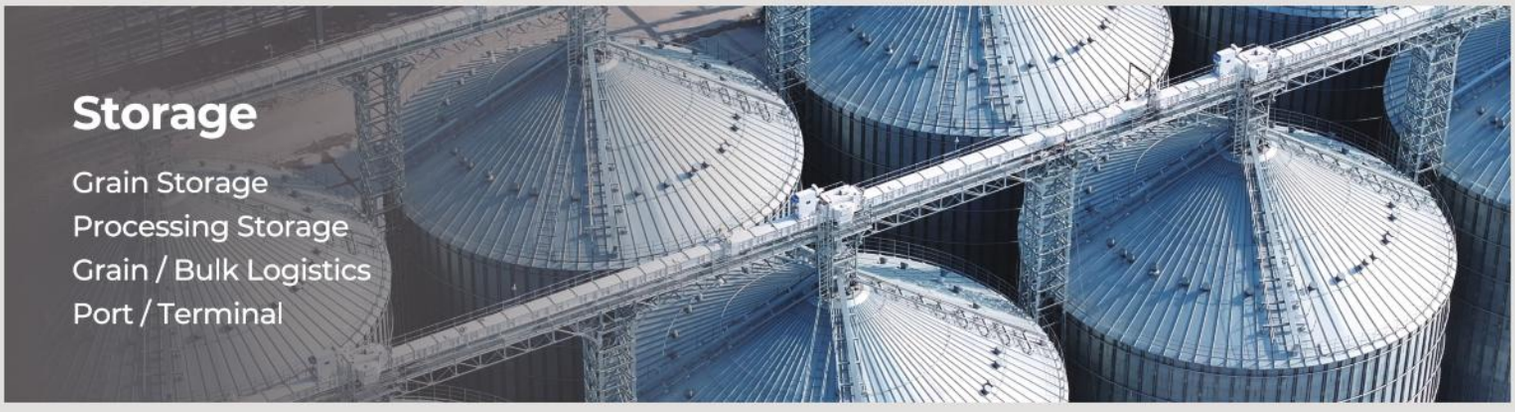

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Follow us

Mill 3 – 21/08

PDI today ?

- same die
- steam different ?
- moisture ?
- check with Ramesh.

Fines ↑ again !!

- cooler ?
- handling ?
- bagging ??

Check moisture before conditioner tomorrow

4mm → 3mm screen ?
- power ↑
- throughput ↓
- worth it ??

Steam pressure ok ?
- was it dry steam ?
- condensate ?

Conditioning
- temp ✓
- retention time?
- check again

11.2	moisture in
10.8	after conditioing →
10.4	after cooler

measure this propeply !

Why do we get different results on Mill 2 ??
- same formula
- same process ?
- operator feedback ?

Roll gap ??
- too tight → ?
- too wide →
- ask operator

Pellet looks good at press but more fines in bag ??
→ where are we losing it ?



Cooler –
pellet temp after ≡ ambient + °C
CHECK

Increase temp
- wait – retention time first

12 TPH
13.5 TPH
amps ↑↑
} calculate energy/ton

2.8% → 4.1% ???
something happening – in cooler ?

Particle size ok by average but distribution ?
too many fines ?



don't forget :
ambient humidity affects cooling

Ramesh said steam line was fluctuating again – ask maintenance.

Wednesday trial :
- keep everything same.
- change only conditioning time.
- note PDI + fines + energy

operator noticed it first !

take sample before cooler also next run.

Small change.
Big difference.
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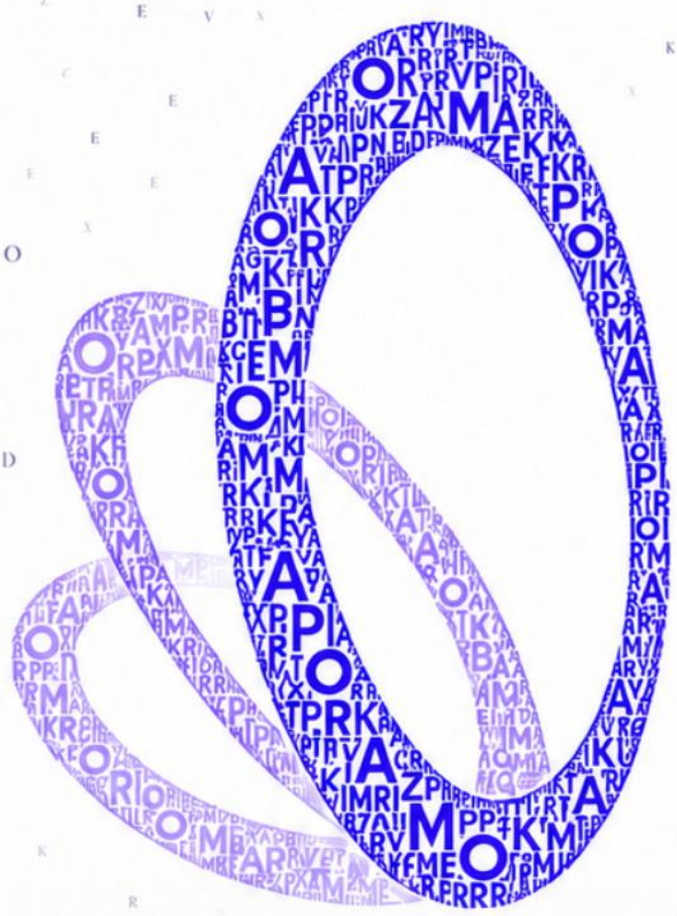


The Same Elements. A New Expression.

A familiar foundation is taking a new form. An evolution is on its way.

Smarter Copper Strategies for Antimicrobial Support in Poultry

By Sopaphan Pruekvimolphan, Dr. Tushar Kulkarni

As poultry production moves away from routine antibiotic growth promoters, copper (Cu) can provide both nutritional and gut-health benefits. Broilers require about 8 mg Cu/kg diet (NRC, 1994), while 100-250 mg/kg has been studied for antimicrobial and growth-promoting effects (Nguyen et al., 2020). By disrupting bacterial membranes and metabolism, inducing oxidative damage, and supporting antioxidant defenses and intestinal integrity, Cu may reduce Enterobacteriaceae pressure and improve feed efficiency. Effective programs must optimize Cu source, dose, and timing while limiting mineral interactions, residues, health risks, and environmental impact.

Evidence in broiler studies

Arias and Koutsos (2006) tested broilers on recycled or fresh litter using four diets: negative control (NC), 188 mg Cu/kg from CuSO4 or copper hydroxychloride (CH), and a positive control (PC) with 0.055 g bacitracin/kg. Under used litter, both Cu sources increased day-45 carcass weight versus NC ($P < 0.05$) and reduced intestinal lamina propria lymphocytes (LPL) and/or intraepithelial lymphocytes (IEL), indicating lower immune stimulation (Figure 1). Under fresh litter, CH increased day-47 carcass weight versus PC (2.16 vs. 1.93 kg/bird; $P < 0.05$), whereas CuSO4 had no significant effect. Overall, CH provided more consistent intestinal and growth benefits than CuSO4 across litter conditions.

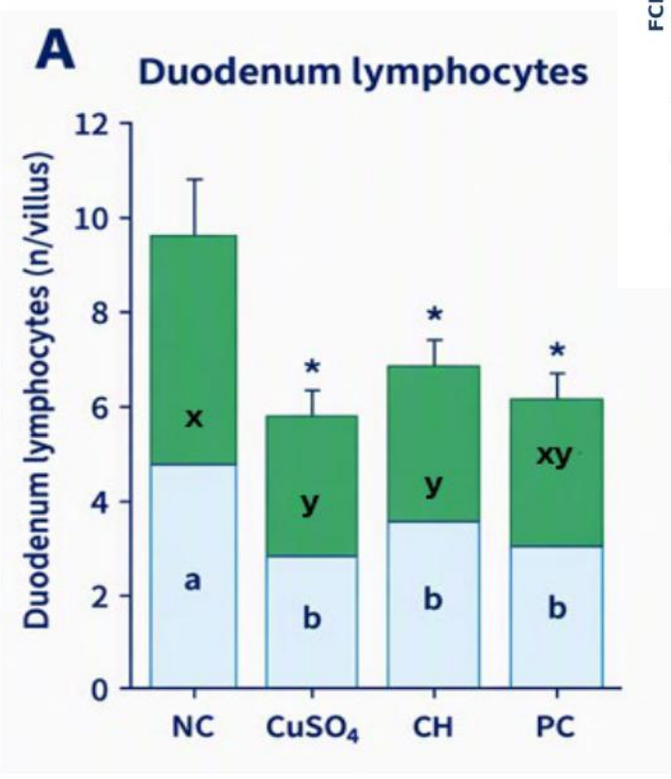


Figure 1. Effect of dietary Cu source and level on the number of intestinal LPL (blue), IEL (green), and total number of lymphocytes. When superscripts are different within a tissue, means are significantly different ($P < 0.05$).

Nguyen et al. (2020, 2022) analyzed the same 35-day trial in 864 Ross 308 broilers fed basal diets supplemented with 15-200 mg Cu/kg from $CuSO_4$ or CH. At 200 mg/kg, CH increased body weight gain by 77 g/bird and improved FCR by 3.2 points versus $CuSO_4$ ($P < 0.01$; Figure 2). High Cu also improved cecal bacteria and intestinal morphology, with CH outperforming $CuSO_4$ at equal inclusion.

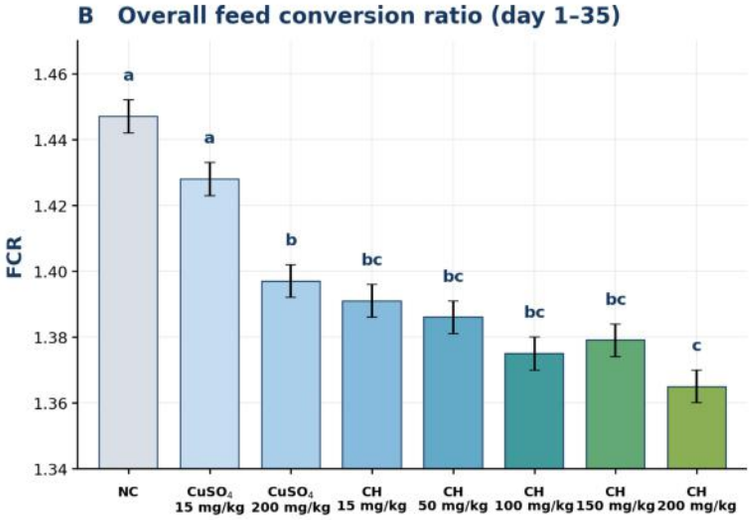
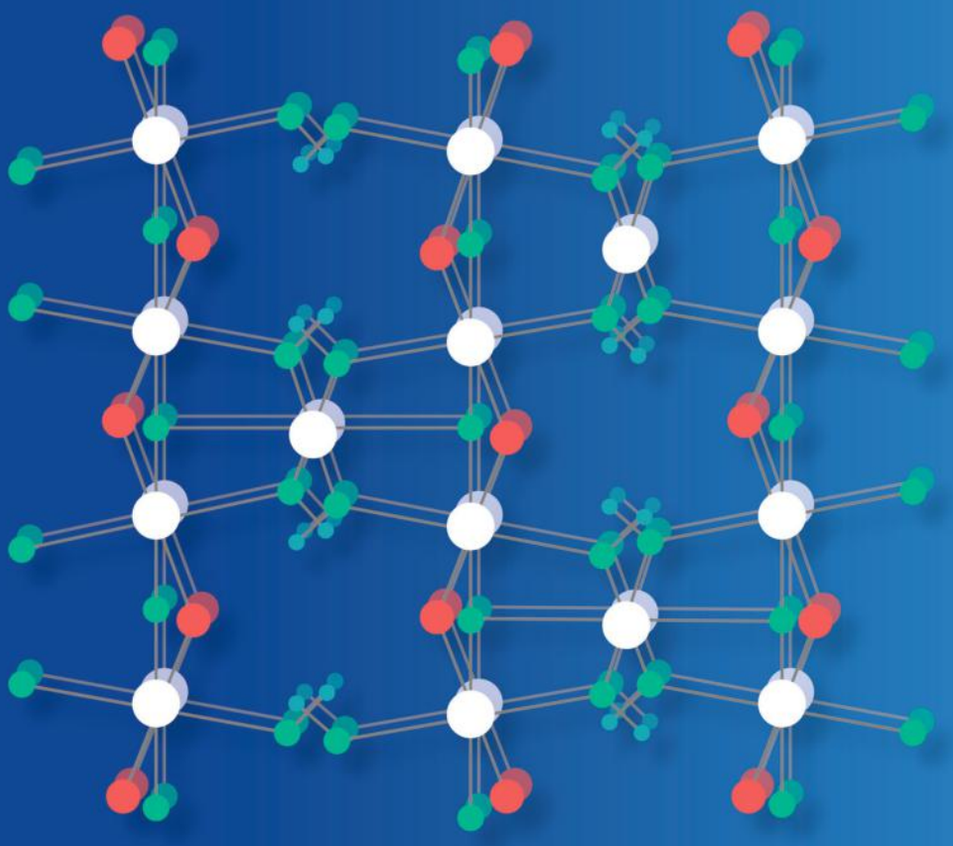


Figure 2. Growth performance parameters of 35-day broiler in response to different Cu dietary treatments. Means with different superscripts are significantly different ($P < 0.05$).

Evidence in layer study

Layer evidence is limited, and long production cycles raise concerns about Cu accumulation and manure loading. Villanueva et al. (2025) fed 400 Hy-Line hens from 16 weeks of age either 180 mg/kg virginiamycin or 216 mg/kg CH for 24 weeks. CH maintained egg production, shell quality, and albumen height, while improving FCR, egg weight, egg mass (Table 2). Thus, high-dose CH may replace AGP while maintaining performance and improving feed efficiency and selected egg traits.



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Treatment	Hen-day (%)	ADFI (g/b/d)	FCR	Egg weight (g)	Egg mass (g)
AGP	85.29	103.05	2.20 [a]	55.62 [b]	47.57 [b]
CH	86.33	103.98	2.13 [b]	57.06 [a]	49.33 [a]
SEM	0.99	0.79	0.02	0.22	0.54
p-value	0.47	0.94	0.03	<0.0001	0.02

Table 2. Performance of laying hens fed diets containing AGP and CH. Means with different superscripts are significantly different (P < 0.05).

How much copper is "high copper" and why Cu source matters?

About 8-15 mg Cu/kg complete feed meets nutritional needs but does not provide antimicrobial effects; gut-health programs typically use 100-150 mg supplemental Cu/kg, while higher dose requires careful control of mineral antagonism and Cu excretion. In this context, CH offers a smarter, more efficient Cu source than conventional CuSO4: its low feed reactivity limits nutrient interactions and oxidation, while pH-dependent release keeps it stable in feed and delivers Cu in the acidic gut, supporting Cu availability, feed stability, and safety. These advantages can enable effective performance at lower doses, reducing Cu excretion and soil accumulation.

Conclusion: from HIGH copper to SMART copper

Copper Hydroxychloride provides more consistent performance than $CuSO_4$ through lower feed reactivity and controlled gastrointestinal release, enabling smarter Cu use with fewer mineral interactions and lower environmental excretion.

References available upon request

By Sopaphan Pruekvimolphan

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Ph.D., Global Solution Manager - Mineral Nutrition, Orffa Additives B.V.,

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CLFMA of India Concludes

59th AGM & 67th National Symposium with Focus on Feed Security, Veterinary Capacity and Livestock Productivity



- *Industry leaders and policymakers come together to address feed security, productivity, farmer resilience and sustainable growth in animal agriculture*
- *Two-day Mumbai gathering highlighted the need for stronger value chains, innovation and coordinated action across the sector*

The Compound Livestock Feed Manufacturers Association (CLFMA) of India successfully concluded its 59th Annual General Meeting (AGM) and 67th National Symposium on 11th and 12th September 2026 at The Leela Mumbai. Themed 'Animal Agriculture - The Backbone of Sustainable Development', the two-day event brought together policymakers, industry leaders, researchers, farmers and allied stakeholders to discuss the priorities shaping the future of India's animal agriculture sector.



The event commenced with the Chairman's Address by **Mr Divya Kumar Gulati, Chairman, CLFMA of India**, who outlined the need to strengthen the foundations of animal agriculture, particularly through greater feed security, domestic production and stronger collaboration across the value chain.



Setting the tone for the discussions, Shri Tarun Shridhar, IAS (Retd.), Former Secretary, Department of Animal Husbandry & Dairying, Government of India, delivered the thematic address, highlighting the sector's role in strengthening livelihoods, nutrition and economic development.

The symposium was graced by eminent dignitaries, including **Mr Naresh Pal Gangwar, Secretary, AHD, Department of Animal Husbandry & Dairying, Government of India; and Dr Muthukumarasamy B., Joint Secretary (NLM), Department of Animal Husbandry & Dairying, Ministry of Fisheries, Animal Husbandry and Dairying, Government of India.**



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Mr Divya Kumar Gulati, Chairman, CLFMA of India, said, "The symposium has reinforced that the future of animal agriculture will be shaped by the strength of the ecosystem supporting it. As demand grows, we must strengthen domestic capabilities, improve the efficiency of the value chain and create greater resilience at the farm level. This calls for sustained engagement between industry, government, research institutions and farmers, with a shared focus on building a sector that can support livelihoods while meeting the country's growing nutritional needs."

Mr Naresh Pal Gangwar, Secretary, AHD, Department of Animal Husbandry & Dairying, Government of India, said, "The discussions have made clear that the next phase of growth in livestock will require stronger connections across the value chain. Farmers, feed manufacturers, processors, markets and policymakers each have a role to play, and greater coordination between them can help address gaps in productivity and efficiency. As consumption patterns evolve, a more integrated sector will be better placed to respond to demand and create greater value for those engaged in it."

Dr Muthukumarasamy B., Joint Secretary (NLM), Department of Animal Husbandry & Dairying, Ministry of Fisheries, Animal Husbandry and Dairying, Government of India, said, "Improving productivity in animal agriculture requires a sustained focus on the fundamentals, from better genetics and animal health to quality feed, research and farmer capacity.

The discussions have highlighted the need to take these priorities together rather than address them in isolation. Strengthening farmers' ability to produce, manage and make better use of available resources will be an important part of building a more productive and resilient sector."

The discussions also highlighted:

- The need to accelerate the shift towards enterprise-led livestock farming, with rising demand making productivity, farmer capabilities and stronger market linkages increasingly important.
- The need to expand veterinary capacity alongside the growth of the livestock sector, including greater participation from the private sector in veterinary education to address the shortage of trained professionals.
- The importance of improving feed security, particularly as maize and soybean face competing demand from other industries. Greater productivity and more reliable availability of these crops will be important to meet the sector's growing requirements.
- The scale of the poultry feed requirement is around 30 million tonnes, with demand increasing by approximately 3-3.5 million tonnes annually. With maize accounting for around 55 per cent of poultry feed, improving its productivity and availability will be critical for sustaining poultry sector growth.

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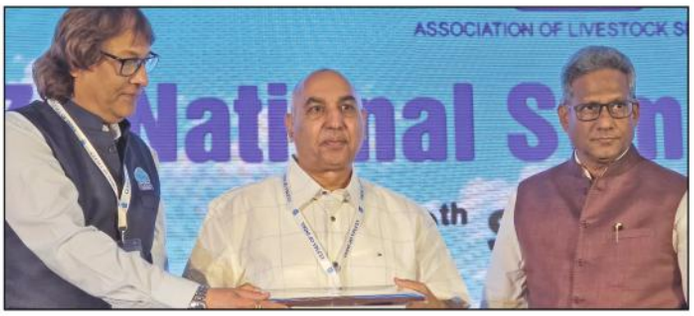



The symposium also recognised outstanding contributions to the sector through the prestigious CLFMA Awards and CLFMA Student Awards. **Mr Jagbir Singh Dhull was conferred the CLFMA Lifetime Achievement Award,** while Dr L. Muniyappa and Dr Shivani Katoch received the CLFMA Awards.

In the Poultry sector, CLFMA Student Gold Medal was awarded to Dr Abhishek Venkat, Silver Medal to Dr Nikhil Sitaram Chande, and Bronze Medal to Mr Vignesh Kumar G., while Appreciation Certificates were presented to Dr Prashanth M. R. and Dr Komal Mishra.

In the Dairy sector, Gold Medal was awarded to Dr Mehnaaz Qayoom, Silver Medal to Dr Omprakash Sahu, and Bronze Medal to Mr Adhar Ankush Gore, with Appreciation Certificates presented to Dr Eva Sharma and Dr M. Praveen Kumar.

In the Aqua sector, Gold Medal was awarded to Ms Shreya Awasthi, Silver Medal to Dr. Vrushabh Pralhad Shende, and Bronze Medal to Ms. Ankita Debnath, while Appreciation Certificates were presented to Mr Safal Shandilya and Mr Rinkesh Meena.

A special highlight of the event was the launch of the CLFMA Souvenir 2026 and Survey Report 2026-2030, providing sector insights and supporting knowledge-sharing across the animal agriculture ecosystem.

The second day featured keynote presentations, policy discussions and panel sessions covering key areas of animal agriculture, including feed and raw material availability, innovation and technology adoption, international trade, pet food and the sector's contribution to global food security. Discussions also examined the role of Artificial Intelligence in improving productivity, decision-making and operational efficiency across the animal agriculture ecosystem.

A dedicated **'One Nation, One Voice'** panel brought together national industry associations to discuss greater alignment within the sector and the importance of a coordinated approach to policy advocacy. The sessions highlighted the need for continued government-industry engagement to address emerging challenges and create an enabling environment for sustainable growth.

The CLFMA delegation included:

- **Mr Suresh Deora,** Immediate Past Chairman, CLFMA of India
- **Mr Divya Kumar Gulati**, Chairman, CLFMA of India
- **Mr Sumit Sureka**, Deputy Chairman, CLFMA of India
- **Mr Naveen Pasuparthy**, Deputy Chairman, CLFMA of India
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- **Mr Nissar F. Mohammed**, Hon. Secretary, CLFMA of India
- **Mr R. Ramkutty**, Treasurer, CLFMA of India

The two-day programme concluded with the valedictory session, reinforcing the importance of collaboration across industry, government, research institutions and the farming community. CLFMA of India reiterated its commitment to facilitating informed dialogue and supporting practical measures that strengthen feed security, animal health, productivity and innovation across the sector.

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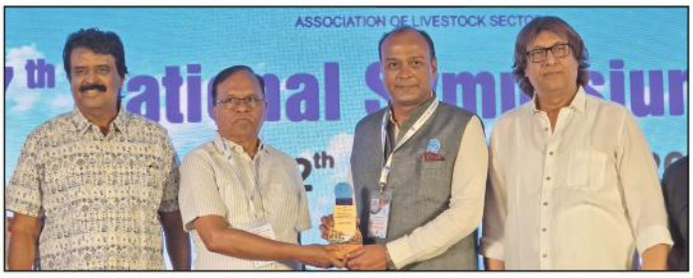











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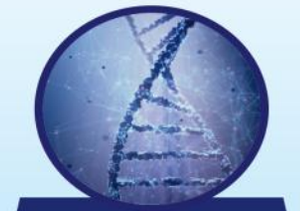
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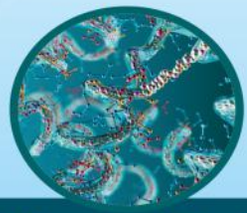
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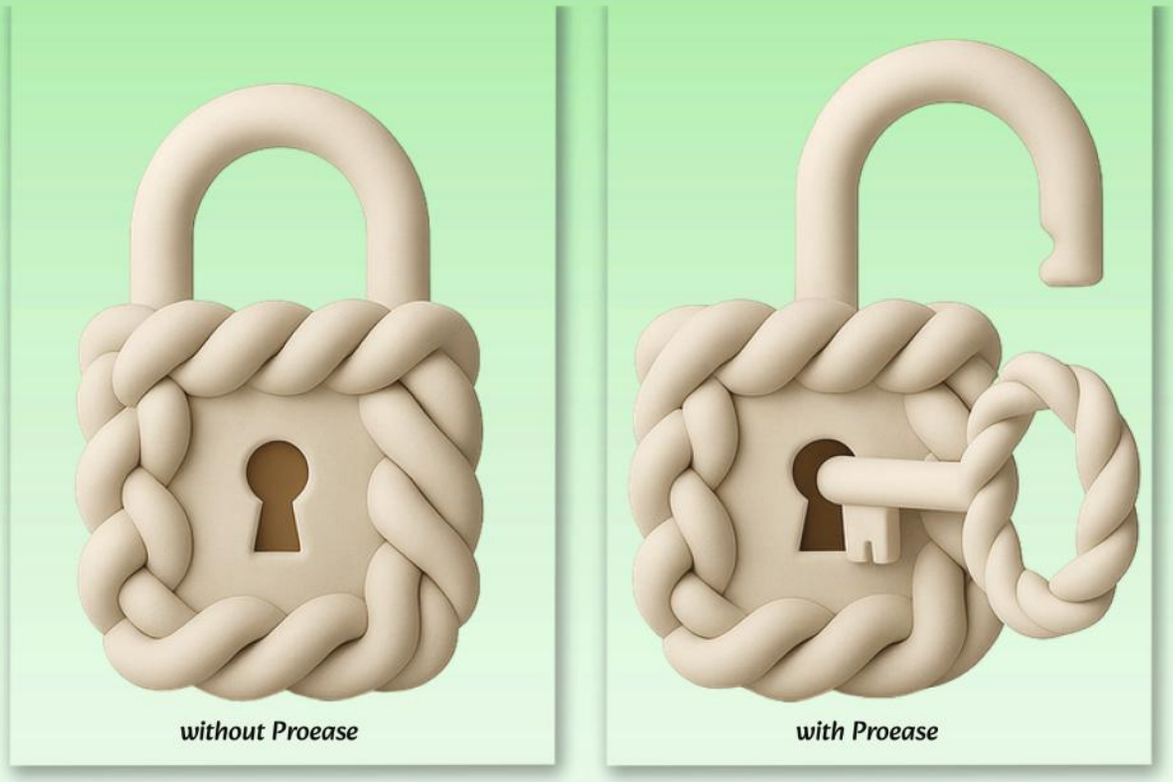

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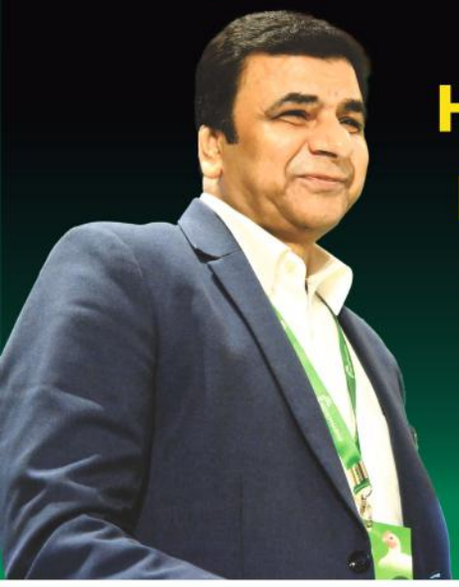

Huvepharma SEA Successfully Hosts RESCOM Summit 2026 in Shillong

Bringing Together India's Leading Poultry Health Experts Under "Poultry Health 360°"

Shillong, Meghalaya – The 5th edition of RESCOM Summit, held from 3rd to 5th September 2026 at Shillong, concluded successfully, marking a landmark event for Huvepharma SEA (Pune) Pvt. Ltd, with high-quality scientific deliberations focussed on sustainable poultry production and national protein security.

"POULTRY HEALTH 360," held at Shillong, brought together more than 250 veteran veterinary practitioners, creating a PAN-India technological network of veteran veterinary doctors and trusted professionals who contribute to poultry production with a focus on safety, quality, and an international perspective on protein.
The emerging challenges in the poultry industry, such as disease emergence, nutritional inputs, quality and cost management, adoption of emerging technologies to strengthen livestock production, robust value chain development, and mapping of consumer preferences, were thoroughly discussed to strategize the future existence and structure of the industry.

Every veteran participated and contributed valuable insights to ensure that the future of India's poultry industry progresses in the right direction.





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Dr. Tarun Shridhar

Director General of Indian Chamber of Food & Agriculture; and Former Secretary, Dept. of Animal Husbandry and Dairying, Min of FAHD, Govt. of India

Dr. Tarun Shridhar highlights the poultry sector as a powerful vehicle for rural transformation. He emphasizes that because poultry farming features short production cycles and low structural barriers, it is uniquely capable of generating rapid rural livelihoods, enhancing smallholder income, and actively empowering marginalized and women farmers. From an agribusiness standpoint, Dr. Shridhar advocates for breaking traditional cultural taboos and accelerating tech-driven integrations across feed mills, processing infrastructure, and cold-chain supply loops to minimize post-harvest food waste. Ultimately, he underscores that bolstering India's macro food and nutrition security relies heavily on building an innovative, sustainable, and globally competitive poultry ecosystem to meet the domestic demand for affordable, high-quality animal protein.







Dr. Nitin Kurkure specifically focusing on **Newcastle Disease (NDV)** and **Avian Influenza (AIV)**. Driven by wild bird migratory flyways intersecting dense commercial farming systems, these WOAH-notifiable pathogens cause massive industry devastation, exemplified by an average **21% flock mortality** for NDV and a **2,200 crore INR national loss** during the 2006 H5N1 outbreak. The presentation highlights an **immunological paradox** where historical Genotype II vaccines are failing because rapidly evolving field strains (such as Genotypes VII, XIII, and XXII for NDV, and mutating H5N1/H9N2 clades for AIV) display significant **antigenic mismatch** and vaccine escape. To bridge these gaps, it calls for next-generation genotype-matched vaccines, scaled genomic surveillance, transparent government compensation to eliminate under-reporting, and strict adherence to mandatory **structural and operational biosecurity** to mitigate zoonotic risks to field handlers.

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Dr. Nitin V. Kurkure

Director of Research, Maharashtra Animal & Fishery Sciences University, Nagpur





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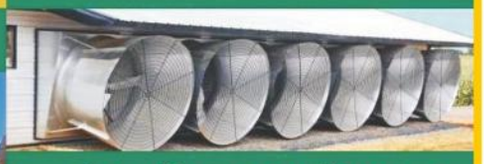

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Dr. Devender Hooda

Director - Sales & Technical,
Huvepharma SEA (Pune) Pvt. Ltd.

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Dr. Devender Hooda details the severe sub-clinical threat of Mycoplasmosis (*M. gallisepticum* / MG and *M. synoviae* / MS) in Indian poultry, which incurs an estimated national value loss of 6,000 to 7,500 crore INR (0.8 billion USD). These pathogens severely suppress bird immunity and drive major production losses, including up to a 47% body weight drop in broilers and a 10% to 20% decline in layer egg production. Long-term data captured by Huvepharma's "My-Screen" PCR testing service—which has screened over 30,000 birds since 2014—reveals that infections are shifting from isolated cases to complex co-infections (Both MG/MS+), heavily affecting younger flocks due to prominent vertical transmission from breeding stock. Because the bacteria utilize sophisticated immune escape tactics like surface protein switching, molecular mimicry, and protective biofilms, Dr. Hooda outlines six critical recommendations, urging the industry to place breeder monitoring at the center of control strategies and target MS as a primary surveillance threat.







Mr. Bruno Sand explained that modern broiler chickens, genetically optimized for rapid growth, have a biological trade-off that compromises their **immune systems**, making them highly vulnerable to persistent environmental pathogens.

To protect flock health and profitability, the presentation outlines a dual-defense strategy: **terminal biosecurity**, which utilizes a strict "clean before disinfect" protocol at the end of a production cycle, and **continuous biosecurity**, which enforces daily protections like controlled visitor entries, vehicle spray arcs, boot dips, and strict carcass management to keep disease out.)

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Mr. Bruno Sand

Head of Technical Marketing, Lanxess
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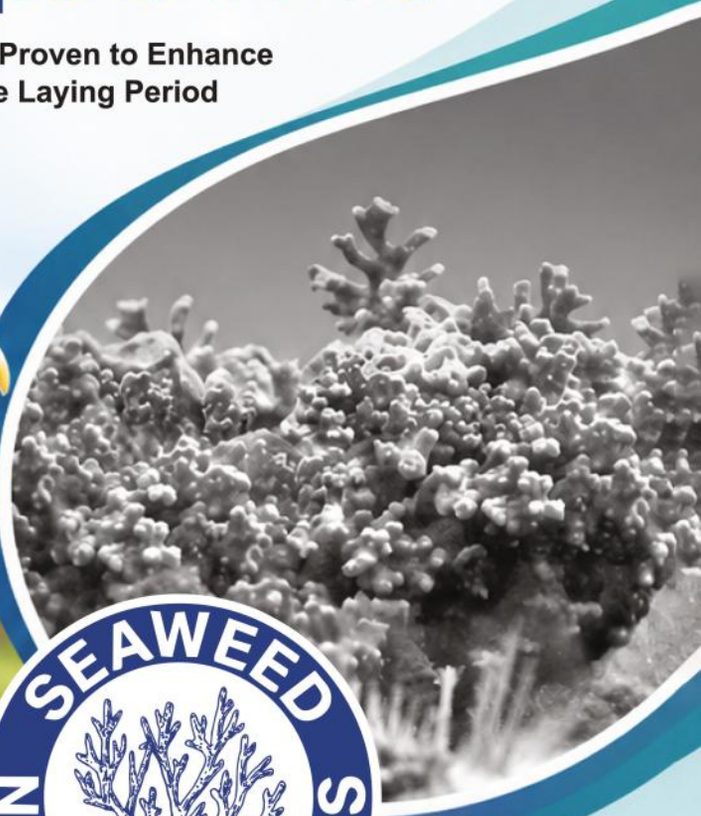

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Dr. P. K. Shukla

Professor and Head of The Department of Poultry Science at DUVASU Mathura & President of the Indian Poultry Science Association (IPSA)

Dr. P. K. Shukla explained Precision nutrition utilizing feed enzymes serves as a vital strategy for sustainable poultry production by maximizing nutrient absorption, minimizing feed costs, and lowering environmental impact. Enzymes such as phytases, proteases, and xylanases break down anti-nutritional factors like phytic acid and non-starch polysaccharides (NSPs), unlocking hidden energy and essential minerals from raw feed ingredients. This biochemical breakdown allows nutritionists to precisely formulate diets with lower-cost alternative ingredients while achieving optimal feed conversion ratios (FCR) and faster bird growth. Furthermore, by significantly increasing nitrogen and phosphorus utilization inside the gut, enzyme supplementation drastically reduces the excretion of these nutrients in manure, mitigating environmental challenges like ammonia emissions and soil pollution.



Mr. O. P. Singh explains that the global poultry industry has arrived at its "bullet-train moment," transitioning from traditional intuition-driven practices to data-fueled artificial intelligence (AI) systems across the entire farm-to-fork value chain. He outlines five core application domains—**hatchery management, health monitoring, feed optimization, predictive analytics, and environmental control**—which connect live consumer retail loop data directly to farm operations to drastically improve **feed conversion ratios (FCR)**, reduce food waste by 15%, and boost bird welfare. Mr. Singh stresses that artificial intelligence must not be treated as a passive IT project but as a deliberate leadership challenge focused on data equity, strict ethics, and building "data moats" so smaller operators are not excluded. Ultimately, he presents the **DRIVE framework** (Digitize, Run pilots, Involve talent, Engage VIPs, Execute now) to guide immediate industry actions, emphasizing the overarching conclusion that **AI will not replace farmers and technicians, but farmers & technicians who use AI will replace those who do not**.



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Mr. O. P. Singh

Managing Director
Huvepharma SEA (Pune) Pvt. Ltd.



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IPEMA–Poultry India Successfully Hosts Curtain-Raiser Media Meet in Delhi to Unveil the 18th Poultry India Expo 2026

IPEMA

Policymakers, industry leaders, associations, agro influencers and media gather to set the stage for the world's largest poultry exhibition in Hyderabad





The Indian Poultry Equipment Manufacturers' Association (IPEMA)-Poultry India successfully organised a Curtain-Raiser Media Meet on Thursday, 8 October 2026, at Hotel The Park, Parliament Street, New Delhi. The gathering brought together senior officials from the Department of Animal Husbandry & Dairying, Government of India, leaders of national poultry associations, farmer and breeder bodies, agri-tech and digital influencers, poultry media, and major national media houses.

The event formally announced the dates, scale and intent of the **18th Poultry India Expo 2026** — the world's largest poultry exhibition — and extended a warm invitation to the entire poultry fraternity to join the gathering in Hyderabad.

Key dignitaries present included Dr. Tarun Shridhar, IAS (Former Secretary, Department of Animal Husbandry & Dairying), Dr. H.R. Khanna (Joint Commissioner, National Livestock Mission), Prof. Dr. P.K. Shukla (President, Indian Poultry Science Association), Dr. Artabandhu Sahoo (Director, ICAR-National Institute of Animal Nutrition and Physiology), Shri Citturi Suresh Rayadu (Chairman, CII Committee on Animal Agriculture), Shri Ricky Thaper (Joint Secretary, Poultry Federation of India), Shri Mohit Malik (President, Broiler Breeders Association - North), Shri Nisaar F. Mohammad (Honorary Secretary, CLFMA of India), Shri Nawab Ali Akbar (President, Uttar Pradesh Poultry Farmer Association), Dr. Shirish Nigam, Shri O.P. Singh and other senior stakeholders from across the value chain.

The IPEMA team was led by President Mr. Uday Singh Bayas, accompanied by Founder-Former President Shri Anil Dhumal along with General Secretary Mr. Ramaswamy Natarajan and Treasurer Mr. M. Srikanth.

Uday Singh Bayas, President, IPEMA-Poultry India, *addressing the gathering, said:*

"We have come to Delhi with a simple purpose — to place before the nation, and before the media that carries the nation's conversation, the dates, the scale and the intent of the 18th Poultry India Expo 2026, the world's largest poultry exhibition, and to invite every stakeholder to Hyderabad. India's poultry industry is on a remarkable growth path. Together, we can shape the future of India's poultry sector and take a confident step towards Viksit Bharat."

He highlighted India's strong position as the world's second-largest egg producer (142.77 billion eggs in 2023-24) and one of the top four broiler-producing nations, with the chicken meat sector growing at 8-10 per cent and eggs at 6-8 per cent annually. He emphasised that this growth has been powered by farmers, integrators, breeders, veterinarians, scientists and Indian MSME equipment manufacturers, supported by enabling government programmes.

18th Poultry India Expo 2026 — Key Details

- **Poultry Knowledge Day Seminar:** Monday, 24 November 2026, at HICC / Novotel, Hitech City, Hyderabad
- **Exhibition:** Wednesday to Friday, 25-27 November 2026, at HITEX Exhibition Centre, Hyderabad
- **Theme:** "One Nation, One Expo" — bringing the world's poultry industry together in India

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The 18th edition is being built to a higher benchmark, with expectations of **550+ exhibitors** and **51,000+ industry professionals from 125+ Global companies**. Spread across more than 35,000 sq. metres of premium air-conditioned space in seven international-standard halls, the expo will showcase advances in breeding & genetics, hatchery systems, feed milling & nutrition, farm automation, housing & ventilation, veterinary diagnostics & biosecurity, egg processing, and manure & green poultry solutions.

IPEMA collaborates with more than 20 overseas poultry associations and 40+ national-level poultry bodies, along with mainstream and digital media, to create a unique platform for knowledge exchange, technology adoption, B2B partnerships and policy dialogue.

The Curtain-Raiser concluded with an interactive session followed by lunch. IPEMA-Poultry India thanked all participating stakeholders, associations and media for their presence and support, and reiterated the open invitation to the entire poultry community to be part of the 18th Poultry India Expo 2026 in Hyderabad.



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In our journey we visited many faces with our poultry Sector legends, and one among them is

Dr. K. S. Prajapati

Former Professor & Head, Department of Veterinary Pathology, Veterinary College, Anand, Gujarat

1. Are you originally from Anand ?

Nearby Anand - Dahod, where schooling was done. BVSc & AH from Anand Veterinary College in 1975. MVsc in Veterinary Pathology from Bombay Veterinary College in 1979. Ph.D again from Anand Veterinary College in 1984. Served as Faculty for 37 years in the Anand Veterinary College and retired as Professor & Head, Department of Pathology in 2014. Settled in Anand and keeping engaged in poultry health services.

2. What is the best thing you liked in your journey

During PG at Bombay Veterinary College got exposure to broiler diseases. Gumboro was major issue and worked on it for my dissertation. During those years Anand and around commercial layer farming was growing. There was paucity of practicing poultry vets and even hatchery technical services were poor. Established poultry disease diagnostic laboratory in the department with overwhelming response from the farmers. The most important part of the journey was blending the academic knowledge with field experience which I and my students enjoyed lot.

3. Why you choose the poultry profession?

In the Department we were working on varieties of animals including wild life and lab animals. But the flow of poultry farmers from entire state was so high I particularly in the department forced to handle the poultry diagnostic work.

4. As compared to other big players in the industry, how you feel your presence is different?

The question doesn't apply to me as such. But, definitely our institute has name in the country for providing diagnostic services to the farmers and for scientific contributions made by the Department in areas of poultry health. Many of our MVSc and Ph. D students have worked on various poultry diseases with good number of research publications.

5. Please tell us about your family

Wife is home maker. Elder son is radiologist settled in Anand. Younger son is IT professional settled in California. Grandson studying at Upen-USA.

6. What you have dream to the next generation entered in this business?

Poultry farming-new projects or expansion- biosecurity is the key to success. The first step is to move away from the existing poultry clusters. Vaccinations has its own limitations. Disease pattern is changing as multiple pathogens are involved in the single outbreak. Always follow instructions and suggestions made by consultant veterinarian. Practicing field poultry veterinarian should have investigative approach while handling the outbreaks.

7. What is your favorite eatery food?

Egg omelet is my favorite breakfast dish.

8. What are your hobbies?

Of course scientific reading. Delivering educational talks to the poultry farmers and technical seminars for field veterinarians.

9. Anything would you like to add?

Practicing poultry veterinarians should undergo continuous veterinary education program organized by the Universities/VCI and be in touch with the scientific publications.





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Venky's PAN India Campaign on:
"Mission Gut Health" - for Sustainable Poultry Farming

A nationwide Technical Engagement Programme highlights the growing importance of gut health, pathogen control and precision acidification in sustainable poultry production.

The Indian poultry industry is continuously evolving in response to the need for efficient production, improved animal health and sustainable farming practices. Against this backdrop, a series of technical seminars under the **"Mission Gut Health for Sustainable Poultry Farming"** brought together poultry professionals, veterinarians, nutritionists and industry stakeholders across major poultry-producing regions of India.



Conducted between **7th to 12th September 2026**, the series of seminars covered **13 technical seminars across Kurukshetra, Panipat, Yamuna Nagar, Bengaluru, Namakkal, Siddipet, Berhampur, Bhubaneswar, Barddhaman, Amaravati, Bankura, Aligarh and Rudrapur**. All the programs were conducted under guidance of **Mr Deepak Khosla** (GM-Sales and Marketing), **Dr. Hemant Murade** (DGM-Sales), **Dr N. Baburaj** (DGM-Sales), **Mr Harjit Padda** (DGM-Sales) and **Mr Chita Ranjan Sahoo** (AGM-Sales). Successful organization of events was done by AGMs **Dr Shiwarkar, Mr R. D. Lokesh, Mr G. Chinnaraj, Mr Suneel Sharma, Mr Shashi Bhushan, Mr Ram Ghate and Mr Raju Tanna**; ZMs **Mr Hemant Jha, Mr M. Babu, Mr Murugesan, Mr Ashok Gangula, Mr Sandeep Saini, Mr Kaustav Chattopadhyay, Dr. Rakesh Yadav, Mr Sriravi and Mr Satyajit Mohanty**; and **Mr Abhishek Gupte**. The programmes provided a platform for technical exchange on gut health management, pathogen control and practical nutritional strategies for improving poultry performance.

The programme featured technical presentations from specialists including **Dr Christian Luckstadt, Technical Director, Addcon; Dr Vishwas Sagajakar, DGM Marketing, Venky's India Limited; Dr Prasad Kulkarni,**



Regional Lead, South Asia, Addcon; Dr Vaibhav Patil, Technical Manager - Nutrition; and Dr Amruta Doiphode, Product Management, supported by regional sales and technical teams.

A common industry priority: healthy gut, healthy birds

Across the seminars, gut health emerged as a central pillar of sustainable poultry production. The discussions emphasized that maintaining a stable and functional gastrointestinal environment is closely connected with bird health, productivity and overall production efficiency.

The **"Mission Gut Health"- for Sustainable Poultry Farming** theme was presented at several locations, while other programmes focused specifically on *Salmonella* control and gut health optimization.



Understanding the importance of organic acids in gut health

One of the key discussion points throughout the program was extensive **use of antibiotics and their adverse implications**. The sessions examined the industry's need to adopt alternative approaches that can support gut health while fitting into modern poultry production systems.



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The program highlighted **organic acids as one of the nutritional tools that can be considered as an alternative approach to AGPs.** Rather than focusing solely on pathogen treatment, the discussions emphasized the importance of creating a gut environment that supports effective digestion and contributes to maintaining microbial balance.

This approach is particularly relevant as poultry producers increasingly look for sustainable nutritional strategies that can complement improved farm management, biosecurity and disease-control programmes.



How organic acids work against pathogens?

A significant part of the technical presentations was devoted to understanding **how organic acids act against pathogenic microorganisms.**

The speakers discussed the role of acidification in creating an unfavourable environment for undesirable bacteria while supporting the overall gut environment.

The technical discussions therefore connected the science of organic acids with practical poultry production requirements.



Acidomix® DF Plus: an important tool for gut acidification

Another major topic was the **importance of Acidomix® DF Plus as a gut acidifier and its precision delivery technology.**

This technical focus provided participants with an opportunity to understand the relevance of acidification strategies and how they can be incorporated into modern poultry feeding programmes.

The speakers explained the importance of delivering active acidifying components effectively within the digestive system. Precision in delivery is particularly relevant when the objective is to achieve consistent nutritional and gut-health effects under commercial production conditions.Z

The programme also presented **Acidomix® DF Plus trial information from India**, giving participants an opportunity to discuss the product in the context of local poultry production.

In addition to Indian trial experiences, the programme covered **Acidomix® DF Plus testimonials from across the globe**, connecting international experience with the



technical discussions taking place among Indian poultry professionals.

From gut health to sustainable poultry farming

A common message running through the programme was that **gut health should be viewed as an integral component of sustainable poultry production rather than as an isolated nutritional issue.**

The discussions connected several important elements:

- Reducing dependence on AGPs and understanding their potential drawbacks.
- Exploring organic acids as part of alternative gut-health strategies.
- Understanding the mechanisms through which organic acids can act against pathogens.
- Recognizing the role of Acidomix® DF Plus as a gut acidifier and its precision delivery technique
- Learning from Acidomix® DF Plus trials in India.
- Considering international experiences and testimonials in the context of poultry production.
- Addressing specific challenges such as *Salmonella* control and other enteric pathogens.

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Building the next phase of poultry health management

The **"Mission Gut Health"- for Sustainable poultry Farming,** represents a technical engagement focused on one of the industry's most important areas: maintaining bird health while improving production efficiency and sustainability.

By taking the discussion directly to poultry-producing regions, the seminars created opportunities for interaction between technical experts and industry stakeholders. The series also demonstrated the increasing importance of science-based nutritional strategies in modern poultry production.

The Mission Gut Health: Technical Engagement Programme brought these themes together across a series of regional seminars, providing poultry professionals with technical perspectives and practical discussion points aimed at supporting the continuing development of sustainable poultry farming in India.

The successful execution of the **Mission Gut Health Technical Seminar Series** was supported by the coordinated efforts of regional sales, technical and management teams. We acknowledge the contributions of colleagues including **Dr. Satish Ranvir, Dr. Gajanan Chavhan, Dr. Narendra Sharma, Dr. Venkatvasan, Dr. Shashi Kumar, Dr. Puneet, Dr. Skandan, Dr. Mohanraj, Dr. Nilesh Datir, Dr. Vikrant Arde, Dr. Tushar Mahanavar, Dr. Jaypal, Mr. Dinesh Umapathy, Mr. Rajarathanam, Mr. Senthilkumar, Mr. Arun Kulkarni, ,Mr. Rajat Patnaik, Mr. Ramakant Mishra, Mr. Sukhvinder Banwala, Mr. Ram Mehar, Dr. Kailas Mithia, Mr. Manoj Kadyan, Mr. Yogesh Sharma, Mr. Shambhunath Haldar, Mr. Ayan Karmakar, Mr. Sayan Maity**





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Venworld Connect

Layer Farmer Meet at Gadag, Karnataka

As part of the "Venworld Connect" initiative, Venkateshwara B.V. Biocorp Pvt. Ltd. (VBVBC) organized a Layer Farmer Meeting on Tuesday, 22nd September 2026, at Gadag, Karnataka. The program focused on the theme "Profitability and Feed Formulation in Layers", addressing practical nutritional strategies that can improve production efficiency and farm economics. The meeting brought together layer farmers and poultry professionals for an interactive technical session focused on scientific feed for mulation, nutrient utilization, production consistency and cost-effective layer farming.



The technical session was led by Dr. Sunil Nadgauda, DGM Technical VBVBC, Pune who discussed the close relationship between balanced feed formulation, flock performance and profitability in commercial layers. He emphasized that feed constitutes a major component of production cost, making precise formulation and efficient nutrient utilization essential for sustainable returns. The session highlighted the importance of formulating diets according to the bird's age, stage of production, physiological requirements and available feed ingredients. Appropriate balancing of energy, protein, amino acids, minerals, vitamins and other essential nutrients helps support egg production, feed efficiency, egg quality and overall flock performance. Special emphasis was placed on the use of locally available raw materials without compromising nutritional consistency. Farmers were encouraged to evaluate profitability not merely on the basis of feed cost per kilogram, but also on the cost of producing each egg, which provides a more practical indication of production efficiency.

Nutritional Solutions for Better Layer Performance

During the technical discussion, VBVBC's nutritional solutions including Mixiblend P, Mixiblend and EGGXTRA were highlighted in relation to practical layer feed formulation. The Eggxtra 5% Layer Composite Premix was highlighted as a comprehensive nutritional solution formulated to provide precise and balanced nutrition throughout the laying cycle. The premix contains essential vitamins, minerals, enzymes such as phytase and xylanase, liver tonic, toxin binder, antioxidants, probiotic and other important feed additives required to support consistent layer performance. With this feeding approach, farmers mainly need to provide the major raw materials—an energy source such as maize, a protein source such as soybean meal and a calcium source such as marble grit while the remaining 5% of the formulation is supplied through Eggxtra, helping create a complete and scientifically balanced layer feed.

The session also highlighted the support provided by Venworld's specialized Nutritional Services Team, which develops customized feed formulations and feeding programs according to individual farm requirements. By evaluating locally available ingredients and farm-specific conditions, the team helps farmers optimize feed formulations, control feed cost and achieve consistent, performance-oriented nutrition.



Mixiblend P and Mixiblend 0.4% Layer Composite Premix were discussed as nutritional solutions that can help support consistent feed quality and balanced nutrient supply under different raw-material and farm conditions. Their application can provide flexibility in feed formulation while helping maintain nutritional consistency across production stages.

The discussion demonstrated how appropriate use of composite premixes, combined with scientifically designed formulations and suitable raw materials, can contribute to better feed efficiency and improved economic returns. The session further emphasized the importance of regularly monitoring ingredient quality, feed intake, body weight, egg production and egg quality, allowing nutritional programs to be adjusted according to the changing requirements of the flock.

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Dr. Prakash Reddy, Ph.D., DGM-Technical discussed the current disease challenges in poultry and the evolving vaccination needs required for effective disease prevention and control. He emphasized the importance of appropriate vaccine selection, timely vaccination, strict biosecurity, sound nutrition and continuous flock monitoring as part of an integrated health-management program.

The program was supported by the Venworld team, including Mr. Lokesh, AGM, M. Babu, Zonal Manager and Mr. Shrikant Khode, RSM, Dr. Sachin Kadam, Product Executive, Pune. Their active participation facilitated meaningful interaction with farmers and helped address practical nutritional and management-related concerns.

The coordinated efforts of the sales, technical and product teams contributed to the successful conduct of the meeting and strengthened engagement with layer farmers in the region.

The Gadag Layer Farmer Meeting reinforced VBVBC's commitment to supporting poultry producers through science-based nutrition, practical feed formulation, customized nutritional approaches and continuous technical guidance. Through initiatives such as Venworld Connect, Venkateshwara B.V. Biocorp Pvt. Ltd. continues to work closely with layer farmers to improve feed efficiency, production consistency, egg quality and profitability, while promoting sustainable commercial layer farming.



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About Dr Wahi

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- He brings **35 years of experience** in the poultry industry and provides technical guidance to poultry farms, including broiler and layer farms, as well as feed mills.
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KPFBA Holds 31st Annual General Body Meeting and Fellowship Programme in Bengaluru



Left to right: Mr M.C.R. Shetty, Nutri Feeds & Farms; Mr Veeranna, ABIS Foods and Protein Pvt. Ltd.; and Vincent Cutinha, Ideal Chicken, received the felicitation from Shri Puttaranga Shetty and government officials.

The Karnataka Poultry Farmers and Breeders Association (KPFBA) held its 31st Annual General Body Meeting and Fellowship Programme at Radisson Blu Atria, Bengaluru. Senior government officials and academic leaders attended the event.

Guests included:

- Shri Puttaranga Shetty, Hon'ble Minister for Animal Husbandry and Sericulture, Government of Karnataka
- Shri Lingaraja S. S., IFoS, Commissioner of Animal Husbandry and Veterinary Services, Government of Karnataka
- Dr Srinivas, Director, Animal Husbandry and Veterinary Services, Government of Karnataka
- Mr Vijay, President, Karnataka Poultry Cooperative Federation Limited
- Prof Dr Nagaraj, Dean, KVAFSU
- Prof Dr Krishnamurthy, Head, Department of Poultry Science, KVAFSU
- Dr Shankar B P, President, Karnataka Veterinary Council

Member Companies Felicitated

KPFBA recognised three member companies for their work in 2025-2026. Each has invested heavily in processing and retail operations to take poultry directly to customers. The Minister and government officials felicitated the companies at the event. The companies are ABIS Foods and Protein Pvt. Ltd., Nutri Feeds & Farms Pvt. Ltd., and Provit Foods Private Limited (Ideal Chicken).

Officials Felicitated by KPFBA

KPFBA felicitated the following leaders for their contribution and efforts to the poultry sector of Karnataka:

- Shri Puttaranga Shetty, Hon'ble Minister for Animal Husbandry and Sericulture, Government of Karnataka
- Shri Lingaraja S. S., IFoS, Commissioner of Animal Husbandry and Veterinary Services, Government of Karnataka
- Dr Srinivas, Director, Animal Husbandry and Veterinary Services, Government of Karnataka
- Mr Vijay, President, Karnataka Poultry Cooperative Federation Limited

Annual Report and Accounts

Mr Prasanna N, General Secretary of KPFBA, presented the General Secretary's report for 2025-26. He highlighted the association's work on government engagement, legal representation, awareness programmes, press conferences and training programmes.



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Mr Naveen D. Khokle, KPFBA Treasurer, presented the financial statement. He explained how the association uses funds for its programmes. He also shared the plans for more work in the coming year.

Sector Survey and Feed Concerns

KPFBA shared the results of a digital survey of the poultry sector. Mr Naveen Pasuparthy, President of KPFBA, warned of an expected maize shortage in the Kharif 2026 season. El Niño has changed the season this year. He asked the Minister to raise the issue with the Central Government, and the Minister agreed to do so.

Government Support Announced

The Minister praised the poultry sector's role in the rural economy. He said the government is planning programmes similar to those in neighbouring states. The first step is a Protein Mission. Under this mission, a park will be set up in four districts: Chamrajnagar, Chitradurga, Koppal and Haveri. Land in the park will be allotted for feed mills, poultry processing plants, cold storage and rendering units. The government has also allocated a budget for solar subsidies for EC (environmental control) sheds and open sheds. This will help farmers reduce operating costs.

Shri Lingaraja S. S. appreciated KPFBA's work on digital surveys and promotional activities. He confirmed the government's full support for the sector.

Dr Srinivas explained the poultry mission projects and subsidies in detail. He asked sector leaders to support the success of the Protein Mission.

Academia, Industry and Public Awareness

Prof Dr Nagaraj and Prof Dr Krishnamurthy stressed the need for closer ties between the poultry sector and academia. They said both should work together to train skilled people for the sector.

They also noted that wrong information about poultry is spreading on social media. Many people, including well-known public figures, do not know how birds are raised. They urged the sector and academia to share correct, science-based information with the public.

KPFBA members from across the states attended the programme.



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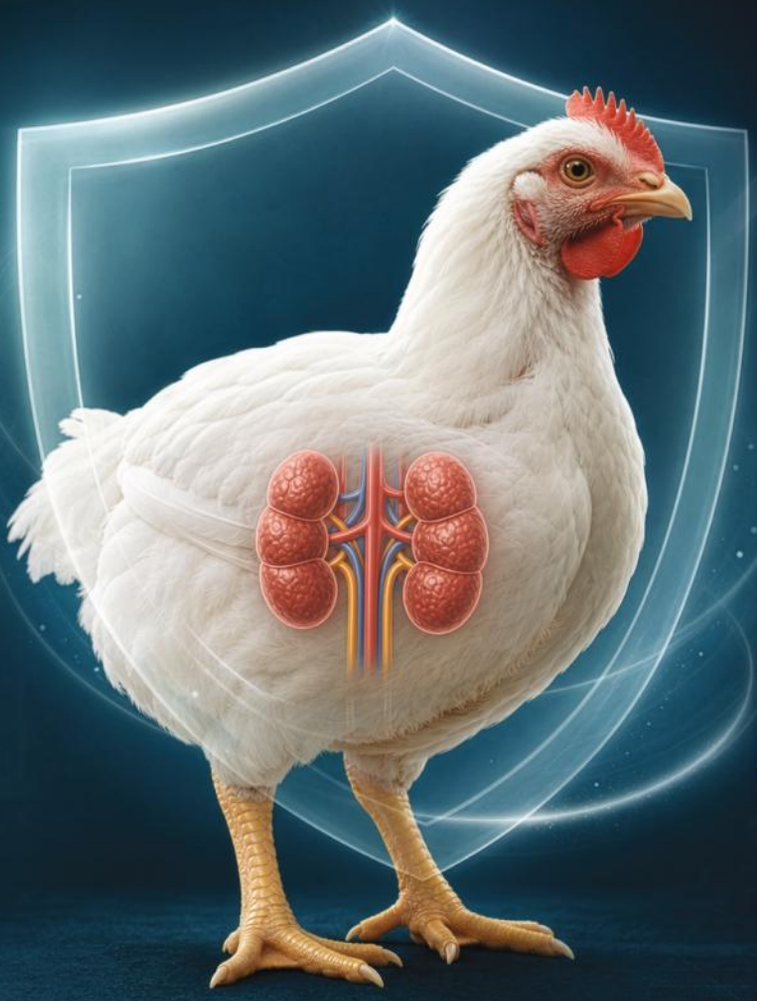

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Strengthening the Global Fight Against HPAI: Science, Vaccines and Strategic Action

The HPAI Vaccine Seminar held at the NASC Complex, New Delhi, brought together international experts, veterinary scientists, policymakers and industry representatives to discuss the evolving global situation of highly pathogenic avian influenza (HPAI), advances in vaccine technology and strategies for strengthening poultry health and preparedness in India. The seminar was organised as a pre-conference event ahead of the 7th WVPA Asia Meeting 2026, held on 9–10 October 2026 under the theme *"Poultry Disease Management for a Safer and Healthier World."*

Global H5N1 Developments and International Perspectives

The scientific programme addressed the global epidemiology and evolution of H5N1 avian influenza, international approaches to HPAI prevention and control, recent developments in vaccine trials, and the practical considerations involved in implementing vaccination strategies.

Dr. Teguh Y. Prajitno discussed global H5N1 epidemiology and evolution. Dr. Gounalan Pavade, Senior Scientific Coordinator for Avian Influenza at the World Organisation for Animal Health (WOAH), presented *"Past, Present and Future: WOAH's Approach to HPAI,"* outlining the international animal-health perspective on HPAI preparedness and control.

Prof. Sjaak de Wit of Royal GD, the Netherlands, and Utrecht University reviewed recent HPAI vaccine trials and technological developments, providing scientific perspectives on the evaluation of available and emerging vaccine approaches.

HPAI Vaccination: From Scientific Evidence to Field Implementation

The seminar also examined the practical dimensions of HPAI vaccination, particularly in the Indian context. Dr. Sanjay K. Gavkare, General Manager–Technical, Ventri Biologicals, Venkateshwara Hatcheries Pvt. Ltd., delivered a presentation titled *"HPAI Vaccination in India: From Vaccine Availability to Disease Control."* The presentation addressed the importance of linking vaccine availability with effective implementation and disease-control objectives.

Dr. Gwenaëlle Dauphin, Director of the Global Platform for Scientific Support and Investigations at Ceva Animal Health, presented *"Why Does the Ceva Vector Vaccine Against HPAI H5 Influenza Merit Consideration for an HPAI H5 Vaccination Policy in India?"* The presentation highlighted recombinant vector vaccine technology and its potential relevance to discussions on HPAI vaccination policy.



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Dr. Rubina Bose, Deputy Drug Controller, Central Drugs Standard Control Organisation (CDSCO), Headquarters shared regulatory perspectives relevant to veterinary vaccines, including regulatory oversight, vaccine evaluation and approval processes.

Panel Discussion: Policy, Science and Implementation of HPAI Vaccination

The panel discussion brought together distinguished representatives from veterinary administration, animal-health policy, scientific institutions and the poultry industry. The panel comprised Dr. Praveen Malik, CEO Agri Innovate; Dr. Diwakar Hemadri, Additional Director General (ADG), Health, Dr. R. K. Jaiswal, IB Group, Dr. Vijay Makhija, INFAH Dr. Thomas Tiley, Elanco, Dr. Anupam Shrivastava, Zoetis, Dr. Sharad Singh, Dr. Harsha K. Shetty, Dr. Pankaj Shukla and Dr. Shirish Nigam.

The discussion focused on the role of vaccination in complementing surveillance, early detection and biosecurity; scientific evaluation of available and emerging vaccine technologies; and the policy and operational considerations involved in developing an effective HPAI vaccination strategy for India.

The panellists deliberated on translating scientific evidence and international experience into practical field-level interventions, strengthening coordination among government authorities, veterinary professionals, research institutions and industry stakeholders, and ensuring that vaccination strategies are supported by robust surveillance and continuous monitoring. The discussion emphasised that vaccination should be integrated into a comprehensive HPAI prevention and control framework guided by scientific evidence, national animal-health priorities and field requirements.

Strengthening Preparedness Through Collaboration

The seminar underscored that effective HPAI management requires an integrated approach combining surveillance, early detection, biosecurity, diagnostics, scientific research and appropriately evaluated vaccination strategies. International experience and scientific collaboration were recognised as important sources of evidence for strengthening national preparedness.

The discussions highlighted the value of sustained engagement among animal-health authorities, international organisations, research institutions, veterinary professionals and industry stakeholders to support responsible decision-making and protect poultry health.

The HPAI Vaccine Seminar 2026 formed an important part of the scientific engagement surrounding the 7th WVPA Asia Meeting 2026. By bringing together international scientific perspectives, Indian field experience and senior professional leadership, the seminar reinforced the importance of evidence-based decision-making, coordinated action and innovation in advancing poultry health and preparedness against HPAI.

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BULLETIN

Quote on RBI Repo Rate Announcement



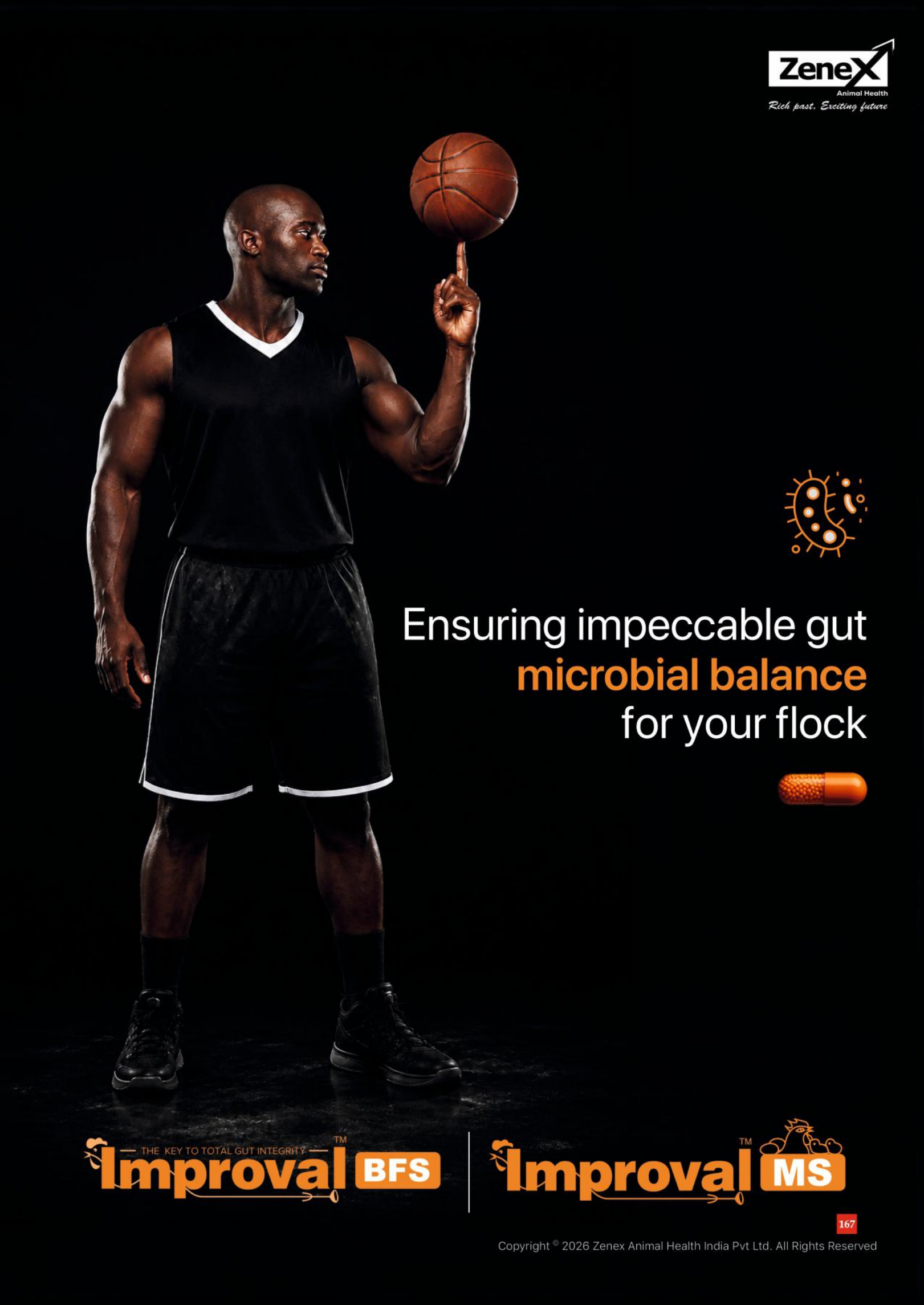
By Divya Kumar Gulati
Chairman, CLFMA of India

"The RBI's assessment of inflation rising to 5.2%, alongside a widening trade deficit and heightened volatility in global crude prices, underscores the cost pressures that continue to affect India's agri-food ecosystem. For the livestock and poultry sector, any sustained increase in energy, transportation and input costs can have a direct bearing on feed costs, at a time when farmers and producers are already operating in a highly cost-sensitive environment.

The impact also extends across the food manufacturing value chain, where higher logistics, processing, packaging and energy costs can raise the overall cost of production. Continued volatility in global commodity markets and the uncertain outlook for the West Asia region add another layer of pressure for businesses that depend on predictable input and supply-chain costs.

With maize, soybean meal and other feed ingredients already facing price and availability pressures, sustained energy inflation could further raise the cost of poultry, dairy and aquaculture production. As festive demand picks up, ensuring adequate domestic availability of feed raw materials will be important to prevent input-cost pressures from cascading into consumer prices.

The focus should therefore remain on strengthening feed security and keeping supply chains efficient, so that external global volatility does not impact farmers or the affordability of animal protein for consumers."



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FROM Science to Solutions:
IFF's Vision for the Future of Poultry Nutrition in Asia

Dr. Arno de Kreij, PhD, MBA, Marketing Director, Animal Nutrition & Health, ASPAC at IFF, shares his perspective on science-led innovation, regional challenges and practical nutritional solutions for a more efficient and sustainable poultry industry.

The poultry industry across Asia is navigating an increasingly complex landscape, shaped by the need for improved animal performance, greater production efficiency, responsible resource utilization and evolving nutritional requirements. In this environment, science-backed feed solutions and their effective application under local production conditions are becoming increasingly important.

At IFF, innovation is driven by a long-standing commitment to scientific research, customer collaboration and practical application. With a portfolio spanning enzymes, probiotics and phytogenics, IFF continues to work with customers to address evolving challenges across animal production.

In this exclusive interaction with *Poultry Technology*, **Dr. Arno de Kreij, PhD, MBA, Marketing Director, Animal Nutrition & Health, ASPAC at IFF**, discusses the company's strategic priorities for Asia Pacific, the importance of translating scientific innovation into customer value, regional barriers to technology adoption and the role of sustained research and development in advancing poultry nutrition.

Q&A | In conversation with Dr. Arno de Kreij

1. **Asia Pacific Strategy & Growth: As the Regional Marketing Director for Asia Pacific for Animal Nutrition & Health at IFF, what are the primary pillars of your strategy for 2027 and 2028 to enhance animal performance in the increasingly competitive regional poultry market?**

For over 47 years, our Animal Nutrition & Health business has been developing innovative feed additive solutions, like enzymes, probiotics, and phytogenics. Through continued customer intimacy, we understand the key challenges, and are developing solutions to reduce environmental emissions and antibiotic use, while lowering costs and improving meat quality for animal producers.

While the specific challenges change over time, the key need of our customers has remained constant; science-backed solutions to their problems. We remain committed to invest in new knowledge development to support our customers in solving their challenges.

2. **Innovation: Could you share your career background and the unique perspectives or experiences you have brought to the field of animal nutrition?**

I have spent my entire career in biotechnology-based businesses, so IFF's world-leading Health and Biosciences division is a natural home. Turning science into customer solutions is complex, and I have worked on almost every aspect of it through my career. Whether it is investing in new consumer brands, developing novel fertility treatments, or helping livestock producers with their challenges, the commonality is that excellence and success comes from continuous focus on what matters for the customer, and how we as a supplier can create value for the customer. It gives me great joy when this comes together in for example Axtra® PHY GOLD, the leading phytase, or Syncra® AVI where we combined enzymes and probiotics to great effect.

3. **Regional Dynamics: What challenges do you see in the Asia Pacific region when it comes to adopting new nutritional technologies?**

We need to support our customers with relevant application knowledge. That is why IFF continues to invest in application trials in Asia Pacific to optimize the application under realistic and relevant local conditions. You cannot rely just on laboratory experiments or a single poultry trial in North America or Europe.

Second, regulatory challenges remain a significant barrier to technology adoption. Lengthy and complex approval processes can delay the introduction of new technologies to the market. Another example is regulation of feed labelling. Although these regulations were introduced with positive intentions, they may limit the adoption of lower-protein, nutritionally balanced diets because current specifications often overlook the value contributed by individual feed ingredients.

4. **Research & Development: How do you balance the need for rigorous scientific R&D with the commercial necessity of bringing innovative health solutions to market quickly?**

Developing novel additives and advancing their applications requires investment, dedicated expertise and a long-term commitment to innovation. We try to focus our efforts on a small number of programs, and make them both fast to market and robust in terms of regional application development.

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Unfortunately the animal producers will continue to face many challenges in the years ahead, fortunately that supports ongoing investment by IFF's Animal Nutrition and Health. We have been doing this for 47 years, and I fully expect that we will continue to support the industry for many years to come.

From scientific discovery to practical poultry solutions

Dr. de Kreij's insights underline an important consideration for the poultry industry: innovation delivers meaningful value when scientific advancements are translated into solutions that address real-world production challenges.

For poultry producers and feed manufacturers in India, the relevance of nutritional technologies depends not only on scientific development but also on their application under local conditions, the ability to demonstrate value and the availability of practical technical support. Continued investment in research, application trials and customer collaboration remains central to addressing these needs.

IFF's experience in animal nutrition and health reflects a commitment to developing science-backed solutions that help customers navigate changing industry demands. As the poultry sector continues to pursue greater efficiency, responsible production and improved animal performance, collaboration between technology providers, nutritionists, feed manufacturers and producers will remain essential.

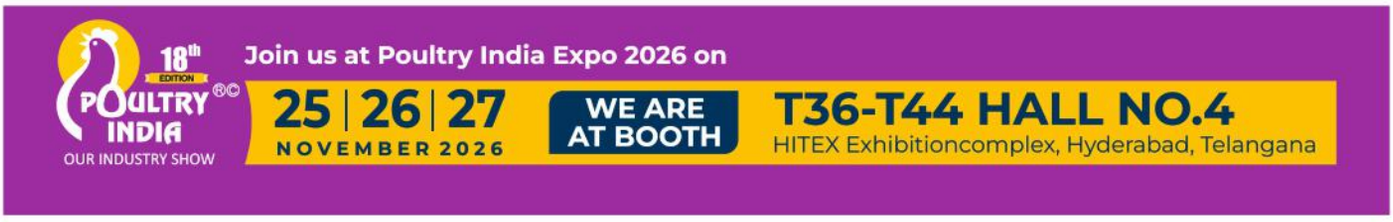
Meet IFF at the Poultry Feed Show 2026

The conversation on innovation, nutritional efficiency and the future of poultry production continues at the industry's leading forums. IFF invites poultry professionals, feed manufacturers, nutritionists, integrators and industry stakeholders to connect with its team at the **Poultry Feed Show, November 2026.**

Visit IFF at Booth T36-T44, Hall No. 4, HITEX Exhibition Complex, Hyderabad, Telangana, from 25-27 November 2026.

Discover IFF's science-led approach to animal nutrition and health, exchange perspectives on emerging industry challenges, and explore practical solutions designed to support the evolving needs of the poultry industry.

Connect with IFF. Explore the science. Shape the future of poultry nutrition.



BULLETIN

Maharashtra Drought Situation

Several regions in the State have been facing a prolonged dry spell, causing extensive crop loss and forcing farmers to incur heavy losses. According to the State Agriculture Department, rainfall has remained absent for over 20 days in at least 83 talukas across 20 districts. At least six districts, including Amravati, Solapur and Latur, have recorded rainfall deficit of 40-50%.

This poses a serious concerns over food and cash crop output as the state of Maharashtra is either the top or the second largest of sugarcane, soybean and cotton in the country, and a major producer of fruits and vegetables.

Divya Kumar Gulati, Chairman of Compound Livestock Feed Manufacturers Association of India (CLFMA of India) shares his thoughts below.

"The emerging drought-like situation in Maharashtra is a concern not only for farmers but for the wider livestock value chain. The impact on crops such as maize and soybean could have a direct bearing on the availability and prices of key feed ingredients in the coming season. Maharashtra is an important agricultural state, and any significant reduction in maize and soybean output can tighten feed raw material supplies and increase input costs for poultry, dairy and other livestock segments.



This can affect both the viability of livestock producers and the affordability of animal protein for consumers. It is therefore important that the situation is assessed comprehensively and that timely measures are taken to safeguard the availability of feed raw materials in the coming season. Ensuring adequate supplies of maize and soybean, along with supporting affected farmers and strengthening supply-chain preparedness, will be critical to preventing a temporary agricultural shock from translating into wider feed and food inflation."

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The 37th Annual General Body Meeting

(AGM) of the Poultry Federation of India on September 23-24, 2026 at Hotel Grand Hyatt, Kochi (Kerala)









The two-day PFI 37th AGM witnessed the presence of over 950 participants from across India and 111 sponsoring companies, reflecting the strength and unity of India's poultry community. The AGM began with the lighting of the ceremonial lamp, symbolising growth, progress and prosperity in the poultry sector.

Mr Ranpal Dhanda, President, Poultry Federation of India, welcomed all participants, expressing heartfelt gratitude to all sponsoring companies for their valuable support in making this 37th AGM a grand success with their presence. PFI President said this PFI AGM is an occasion where the entire country's poultry sector has gathered on a single platform to connect, share experiences and deliberate on the future course of action. The entire value chain of the poultry sector is present on this platform—ranging from farmers, breeders, feed millers, and integrators to medicine and equipment companies, doctors, scientists, and associations.

Mr Ranpal Dhanda further said India is a young nation today, and one of our greatest challenges is delivering affordable, high-quality nutrition to as many people as possible. Eggs and chicken play a vital role in this. For us, these are not merely poultry sector products; they are crucial components of nutritional and protein security. Therefore, in the future, PFI will vigorously advance the "Mission Protein India" initiative.

The inaugural address was followed by the Annual Report presented by **Mr Ravinder Singh Sandhu, Secretary,** who highlighted the following activities being done by PFI in the last year.

Regarding the Bird Flu Vaccine Policy: Bird Flu has been a major concern for farmers. PFI has consistently raised the issue of LPAI and HPAI vaccines with the government. As you all know, the PFI team worked hard to secure permission for the LPAI vaccine and maintained continuous coordination with the Department of Animal Husbandry (Government of India) regarding the HPAI vaccine. PFI with support from other national poultry associations, has achieved significant success in this regard; now, the HPAI vaccine can be manufactured in India and legally imported.



Efforts to ensure farmers can easily obtain the Pollution Board NOC: To address this, the PFI team held meetings with the Haryana government, advocating for the exclusion of the poultry sector from the 'industry' category regarding Pollution Board NOCs. We proposed a separate policy for poultry NOCs that requires minimal documentation. PFI Team is hopeful that the Haryana government will soon issue a notification on this matter.

Regarding Market Committee fees for maize and pearl millet (bajra) -Taking this issue seriously, the PFI team held a meeting with the Haryana government. This meeting took place under the chairmanship of our senior colleague and Honourable Cabinet Minister, Shri Mahipal Dhanda Ji, and was attended by the Chief Secretary of Haryana and senior officials from the Mandi Board; other poultry associations also participated alongside the PFI team.

Initiative for biogas plant subsidies for breeder and layer farming - Poultry waste poses a major challenge for our fellow farmers. The cost of installing biogas plants to dispose of this waste is very high; consequently, our team has voiced the farmers' concerns to the Government of India, specifically requesting a subsidy of ₹1 crore for biogas plants.

Regarding rising Soya DOC prices - Our team conducted a survey to identify the underlying causes and discovered that soya stocks were being hoarded. In response, we wrote to the PMO and the relevant ministry, urging them to impose an upper limit on soya stockpiling. This intervention halted the rise in soybean prices; while we had anticipated a sharp price surge due to hoarding, the situation was successfully brought under control.

Regarding maize quality and production - Thanks to the sustained efforts of the PFI team, we have observed a significant increase in maize production in the North this year compared to previous years. Through various maize-focused seminars, we have been consistently raising awareness among farmers about maize quality to ensure there is no shortage in the future, given the rising demand.

PFI purchases a plot for a laboratory - 400-square-yard commercial plot has been purchased in Panipat for the PFI laboratory. The project report is ready, and work is set to commence shortly. The laboratory will be completed soon, providing the poultry sector with enhanced technological support. Its primary objective is to offer farmers and the entire poultry sector superior technical support, accurate disease identification, and scientific information.

VIV Select India Exhibition- PFI has enabled even small-scale farmers to experience an international exhibition. Our team brought in thousands of farmers from across the country to provide them with insights into poultry-related technologies, ensuring that advanced technology reaches even the smallest of farmers.

Later, the Financial Report was presented by **Mr. Rahul Khatri, Treasurer**, which was unanimously approved by all the PFI Members. **Mr. Sanjeev Gupta, Vice President (HQ)** extended Vote of Thanks. Mr. Gupta extended special thanks to all PFI Executive Committee Members, Industry Leaders, Technical Speakers, Delegates, Media partners and the entire management team for their dedicated efforts and teamwork.

A high-level panel discussion on "Indigenous Viral Strains for Poultry vaccines: Strengthening Disease Control Through India Specific Solutions" was there which was very well moderated by **Dr. Nitin Vasantrao Kurkure and the distinguished panel included Dr. Premanshu Dandapat, Dr. NK Mahajan, Dr. Shirish Nigam, Dr. Sanjay Gavkare and Dr. Gowthaman.** Press and Silver & Bronze category sponsors were felicitated for their continuous support, by presenting mementoes. **Dr. Jeetendra**



Verma, Executive Committee Member, Poultry Federation of India, extended Vote of Thanks. The evening concluded with a musical program and cocktail dinner, offering networking opportunities and celebrating unity within the poultry fraternity.

The second day of the 37th Annual General Body Meeting of Poultry Federation of India continued with insightful policy sessions, dignitary addresses and recognition of excellence in the poultry sector.

This was followed by launch of **Mission Protein India** and its mascot by the Honourable Chief Guest **Shri Mahipal Dhanda, Minister of Education, Government of Haryana,** along with all the dignitaries on the dais. Mission Protein India is an initiative by PFI to promote protein awareness by launching an Instagram page titled "Mission Protein India." This initiative will provide the general public with information regarding the nutritional value of protein. Our goal is to ensure that accurate, scientific information reaches everyone, enabling people to understand the importance of better nutrition for their health and adopt it into their lifestyles.

Later **Mr. Vijay Sardana, Advocate, Supreme Court of India & Techno-Legal Advisor, Poultry Federation of India** gave Keynote address. **National Poultry Export Mission** - On behalf of Poultry Federation of India, it was proposed to Establish a **National Poultry Export Mission 2035**, with PFI, DAHD, APEDA, MoFPI, Commerce Ministry and relevant state governments working against annual milestones. **The Proposed US$10 Billion Export Basket.** India should move progressively from bulk shipments to specification-based shipments. The buyer should be able to specify: weight + cut + fat level + packaging + certification + microbiological standard + halal status + traceability. That is how a commodity becomes a differentiated export product. The objective should be to establish Indian processing companies as international suppliers.

Dr. Sunil Neelam, ICAR-Indian Institute of Maize Research gave interesting and highly appreciated presentation on "Strategy to Meet Maize Requirement for Poultry in Changing Scenarios". This was followed by address by **Mr. Ashok Thakur, Guest of Honour and Director, National Agricultural Cooperative Marketing Federation of India (NAFED)**. Mr. Thakur offered all the support to poultry sector as it's creating lot of employment among young generation. His emphasis on strengthening protein security, feed security, farmer welfare and sustainable growth provided important direction for the sector.

The honourable Chief Guest, Shri Mahipal Dhanda, Minister of Education, Government of Haryana addressed the gathering which was truly insightful and inspiring. It was indeed an honour and privilege to hear his valuable thoughts and guidance. The clarity of his vision and his commitment to working closely with industry stakeholders were highly appreciated by all the delegates. The honourable Chief Guest concluded by saying together, let us take Indian Poultry to greater heights and contribute meaningfully to the vision of a Healthy, Prosperous and Viksit Bharat.

Mr. Ricky Thaper, Joint Secretary, delivered The Vote of Thanks by appreciating Hon'ble Chief Guest Shri Mahipal Dhanda Ji, Hon'ble Education Minister, Government of Haryana, and the Guest of Honours for graciously sparing their valuable time to join and bless the 37th AGM.

The Panel Discussion on "Beyond Maize and Soy-Alternative Feed Ingredients for Efficient and Cost-Effective Poultry Production" was very nicely Moderatored by **Dr. Tarun Shridhar and the panellist included Prof. Dr. PK Shukla, Dr. Ashok Kumar Pattanaik, Dr. Amit Das, Dr. Shiv Kumar Bhardwaj, Dr Nataraja Hulegondi and Dr. Ajay Deshpande.**



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This was followed by the insightful addresses by leading voices from the poultry industry that added tremendous value to the AGM. The poultry leader's; **Mr. Divya Gulati, Mr. Vasant Kumar, Mr. Madan Mohan Maity and Mr. Bahadur Ali's** perspectives highlighted the sector's key challenges, emerging opportunities and the need for stronger collaboration among farmers, industry, scientists and policymakers.

Later, there was mementoes presentations to Special Guests & Poultry Industry Associations and Super Platinum, Platinum, Diamond & Gold Sponsors. **Mr. Rahul Khatri, Treasurer**, extended a vote of Thanks. The 37th AGM of the Poultry Federation of India concluded on a highly positive and inspiring note, reaffirming our collective commitment to the growth, sustainability and long-term strength of India's poultry sector. and celebrating unity within the poultry fraternity.





























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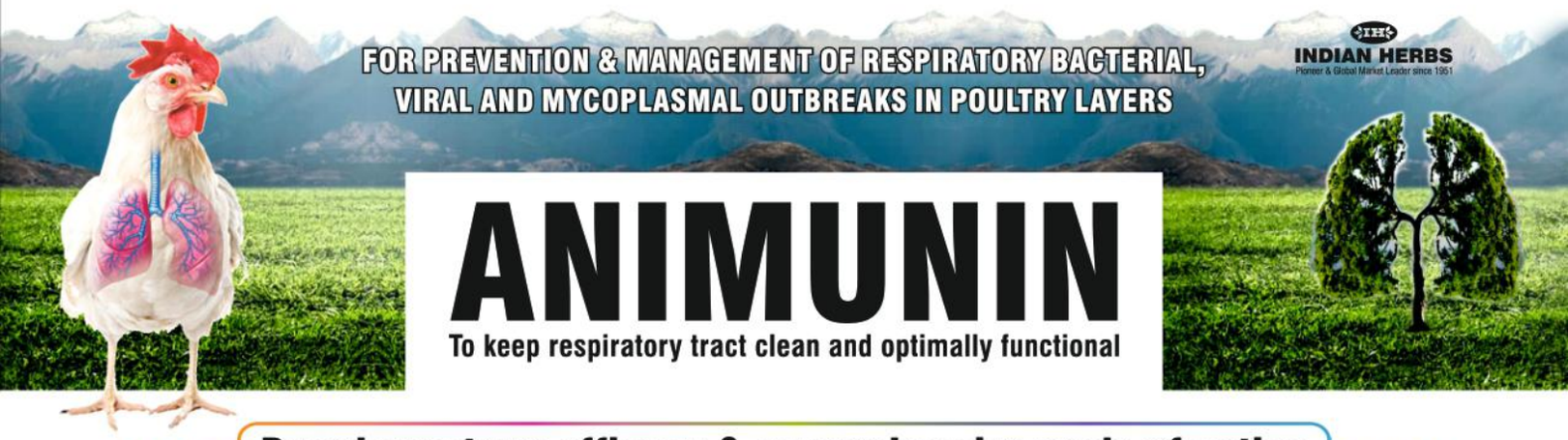

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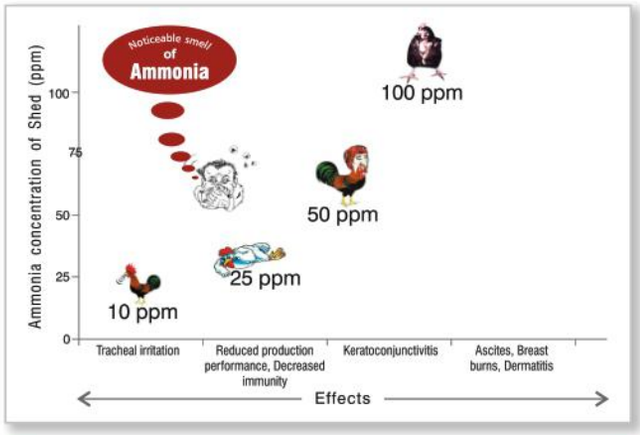

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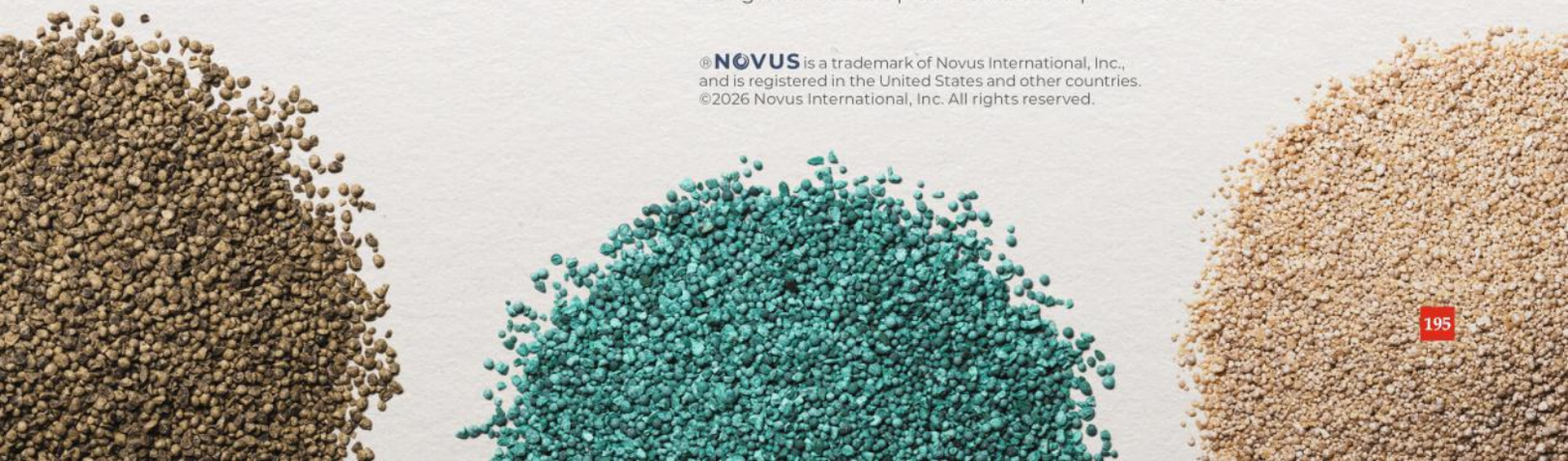

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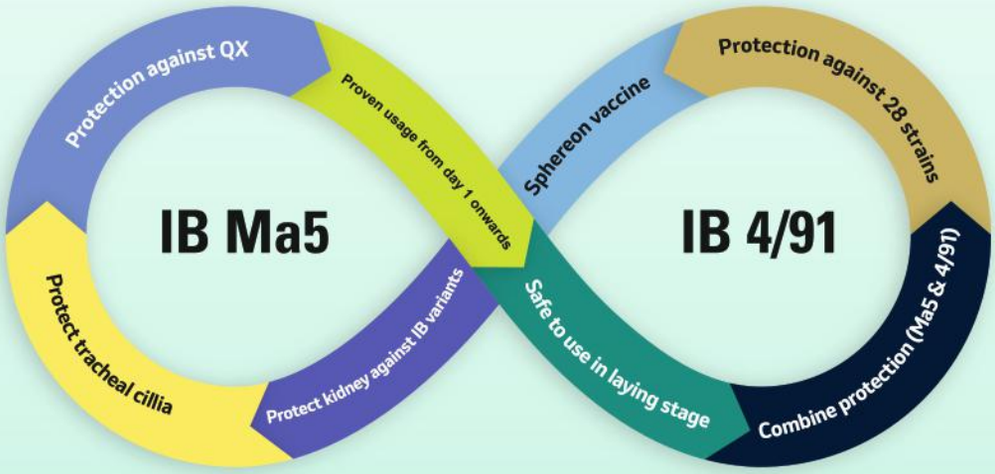



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