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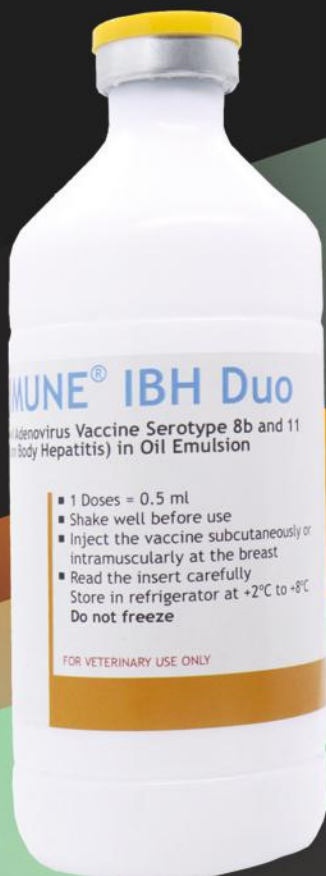
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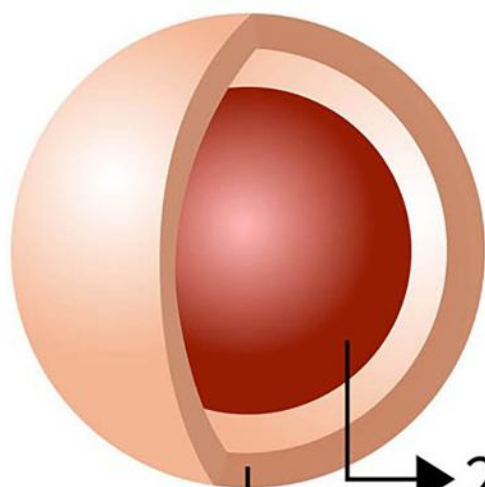


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05

Treating
Life **Naturally** 

BRICS – The Power Mutation!

The double standards followed by the USA show blatant disregard towards India for sourcing cheaper Russian energy. If the purchase of oil finances the war, the world has to choose to support the war through Russia or America.

The USA, which survives and grows by attracting the best Global talent and skills to boost its superpower status, will have an adverse effect if it stops the H1B visa and also takes a U-turn on its global immigration policy. Historically, India always benefited whenever technology or any advanced science was denied to it. This motivated India to develop its own supercomputer, nuclear science, space, rocket engineering, technological skill, and innovation in the defence sector. The current US policy of targeting Indians will, in the long run, benefit India by making it more self-reliant and stop looking overseas for its growth and development. The current USA discriminatory policy is also a blessing in disguise for India.

The grand success of the BRICS Summit in India has sent kind of shock waves across Europe and the Americas. The world did not expect the presidents of Russia and China to participate in Delhi with a conglomerate of key leaders that contribute 50% of the population and 40% of the global GDP. The major difference is that the BRICS group is a progressive, fast-rising future market economy compared to the current sluggish growth in the Western economies.

India and Indians have always had a poor, wrong, misleading, negative and doctored image projected to the world by the racist and cockeyed media, which never projected the real India to the outside world. It's time we consciously worked on correcting this image. Foreign visitors to India and social media are exposing the real India in bits and pieces, which is a revelation to the outside world. The West continues to live in an illusory past with a colonial mindset of dominating the rest of the Asian and African world. After centuries of domination, China, India, and Africa have moved on with independence in deciding their future without being subdued anymore. India, with its independent foreign policy, has refused to take sides in the Global arena and chooses its own path that is in the best interest of its own people. BRICS has never declared itself as anti-West or anti-USA, but only promotes that they be treated equally and justly without being threatened by global institutions or fully being manipulated by the few. Unless the powerful few equally respect the other emerging markets and countries, the dominance by the West will not be sustainable, and a new multipolar world is bound to emerge.

The infighting among the few of our powerful associations and federations is unfortunate. The Poultry industry is going through a phase where lots need to be contributed towards stability and growth. The power politics and a select few with vested interests are not in the larger good of the industry.

The excessive use of Trump tariff threats has failed to have any adverse impact on China or India, and has had the effect of strengthening tariff ties!

Editor



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Head's	FLOCK 01	FLOCK 02	FLOCK 03	FLOCK 04	FLOCK 05
No. of Chicks	4959	6160	4900	5050	5300
Date of Arrival of Chicks	01.04.2025	19.05.2025	02.07.2025	01.09.2025	30.11.2025
Weight of Chicks (Gm)	42	44	43	43	43
FCR at Approx. 2 Kg B/W	1.115	1.096	1.117	1.109	1.107
Total Weight of Sold Bird	10500	12450	12400	12127	12781
Total No. of Birds Sold	4200	5900	4600	4870	5088
Average Weight per Birds (Kg)	2.500	2.110	2.696	2.488	2.512
Total Feed Consumed (Kg)	14000	18500	17750	15100	16000
FCR (Kg)	1.333	1.486	1.431	1.245	1.252
CFCR (Kg)	1.208	1.457	1.266	1.115	1.124
REMARKS	LPAI* - Out Break occured on 8 th day, but checked on 9 th day, inspite of that progress was better than the standards.	Insipite of peak summer and rates, control feeding was done to delay the growth.	Flock was kept on control feed, due to poor rate to delay the production.	Flock was kept on control feed, due to poor rate to delay the production.	Mean age 35 Days.
PRODUCT USED					
Nutrigrow & Multimune	1-10 Days (50 Gm + 5 Gm) per 1000 Birds				
Respamune	SPRAY - 1 - 10 days every day than every 3-4 days 1 ml per litre water				
Readymune (Regular by)	Day 1 till Marketing @ 50 Gm Per 1000 Birds				
Calface	On achieving 1.2 Kg B/W @ 25 Gm per 1000 Birds X 5 Days				
Respafeed	@ 1 Gm Per Litre Water (Day 1 till Marketing Or 500 Gm per Ton Feed)				
Intermune	@10 Gm per 1000 Birds on 12,13,14 Day @20 Gm per 1000 Birds on 22,23,24 Day				

* NOTE - NO VACCINE OR ANTIBIOTIC WAS GIVEN AT ANY STAGE.



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This combination of high production intensity and increased water turnover can make droppings consistency particularly vulnerable during peak production.



When Production Peaks, Droppings Can Become Wetter

A high-producing layer operates close to its physiological capacity. Increased water intake tied to egg production, together with changes in gastrointestinal water handling, can result in greater moisture reaching the excreta. Research has linked increased water intake with wetter droppings in laying hens.

Loose or watery droppings during peak production may simply reflect the physiological demands of sustained high egg output, particularly when nutritional, environmental, and health factors are well controlled. This is why wet droppings at peak should not automatically be read as a sign of primary intestinal disease.

Why Wet Droppings Matter?

Excess moisture doesn't stop at the droppings; it moves into the manure and litter, creating wetter, harder-to-manage conditions and additional pressure on farm hygiene. Maintaining good droppings consistency during peak production is therefore an important part of a favourable production environment.

The goal is not to restrict water, since clean, good-quality water must stay freely available to the flock. The goal is to support the bird's ability to manage intestinal moisture efficiently.

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RNI NO. HARBIL/2006/18915

Contents	Page No.
Editorial	06
Article	10, 16-22, 26, 28-30, 34-38, 40-42, 98-100, 102, 104-110, 118-120, 150-152, 154-156, 158-160, 162-164
Bulletin	44, 46-48, 50-51, 54, 56-58, 60-62, 64, 66-70, 74-76, 78-84, 88, 90-92, 92, 96, 100, 112-113, 114-116, 124-126, 128-130, 132-142, 144-148, 166-168, 168
Job Requirement	160
Event Calendar	30



Legend
SERIES 35
(Posthumous)

Dr J.L. Vegad

Page No. 44



Legend
SERIES 36

Mr. Venkateshwar Rao Chalimeda

Page No. 112

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Company Name	Page No.	Company Name	Page No.
AB Vista South Asia	131	Lumis Biotech Pvt. Ltd.	45
ABTL	13	Mankind Pharma	85
Alivira Animal Health Ltd.	55	My Agrinutrition	11
Aminorich Nutrients B.V.	157	Narsipur Chemicals Pvt. Ltd.	94, 95
Anand Animal Health	63	Nayyar Scientific Instrument Traders	62
Anthem Biosciences Pvt. Ltd.	79	NCH Life Sciences LLC	169
Arunodya Feeds Pvt. Ltd.	Title Fold	Neotle Global Pvt. Ltd.	103
Aviagen India Poultry Br. Co. Pvt. Ltd.	72, 73	NHU Animal Nutrition	81
Avitech Nutrition Pvt. Ltd.	115	Noble Animal Health Pvt. Ltd.	159
B.S. Foods	43	Norel NBPL India Pvt. Ltd.	119
BASF India Ltd.	71, 93	Novus International Inc.	171
Bentoli Agrinutrition India Pvt. Ltd.	99	NUQO Animal Nutrition India Pvt. Ltd.	17
Bioncia	69	Optima Life Sciences Pvt. Ltd.	135
Boehringer Ingelheim India Pvt. Ltd.	19	Petersime N V	111
British Drugs	48	Phileo Lesaffre Animal Care	Title 1
Canafa Solutions Pvt. Ltd.	24, 25	Poly Plastic	76
Captain Meow International Co., Ltd	4	Poultive Nutrition Pvt. Ltd.	27
Centay India Pvt. Ltd.	14	Poultry India Expo 2026	52, 53
Dedicated Biotech	23	Priya Chemicals	38
Dovoy Chemicals India Pvt. Ltd.	170	Provet Pharma Private Limited	147
DSAND Animal Nutrition Pvt. Ltd.	83	PRVS	130
Elanco India Private Limited	7	Ravioza Biotech	145, 149
Essence Natura Pvt. Ltd.	77, 89	Regen Biocorps AHI (P) Ltd.	122, 123
EuroTier 2026	117	Rossari Biotech Limited	143
Evonik Degussa India Pvt. Ltd.	141	Rovitex Agro Chem	49
EW Nutrition India Pvt. Ltd.	86, 87	Shah TC	29
Famsun / Hauli	107	Sheetal Industries	21
Feather & Forceps	130	Stallen South Asia Pvt. Ltd.	41
Fine Organics	5	Symbio Nutrients	137
Ganga Group	15	Techna India Pvt. Ltd.	121
Glamac International Pvt. Ltd.	75	Tex Biosciences Pvt. Ltd.	127
Glocrest Pharmaceutical Pvt. Ltd.	91	Trouw Nutrition Hifeed B.V.	167
Grin Micro Biosciences Pvt. Ltd.	155	Unnat Feeds Pvt. Ltd.	39
Himalaya Wellness Company	151, 165	Vaksindo Animal Health Pvt. Ltd.	2
HIPRA India Pvt. Ltd.	37	VAL Products India Pvt. Company	101
Hitech Nutritions Pvt. Ltd.	59	Value Consultants	160
Huvepharma Sea	172	Vamso Biotec Pvt. Ltd.	35
ICC Animal Nutrition	57	Venk B.V. Biocorp Pvt. Ltd.	97
IFF-Danisco Animal Nutrition	153	Venky's India Ltd.	109
IHC Ltd. (PVS Group)	47	Ventri Biologicals	65
Indian Herbs Specialities Pvt. Ltd.	133	Vetogen Animal Health	67
Indovax Pvt. Ltd.	125	Zenex Animal Health	161
Interface Pharma Pvt. Ltd.	Title Fold 8, 9	Zeus Biotech Private Limited	61
ITP Special Additives India Pvt. Ltd.	139	Zivota Private Limited	31
Janta Foods / Janta Group	32, 33	Zoetis India	163
Kemin Industries	3	Zytex Biotech Private Limited	105
Kenzo Pvt. Ltd.	129		

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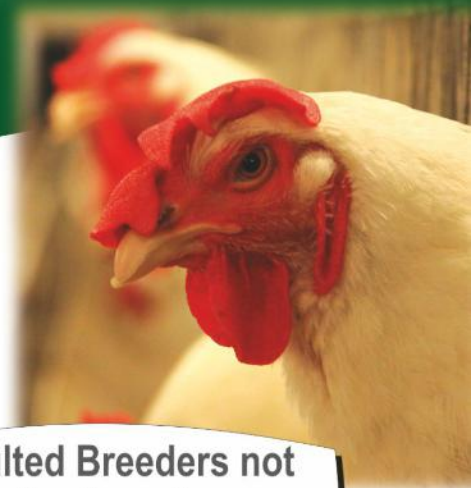
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एंकाउंटर नं 281: पोल्ट्री में क्यों बीमारियां आती जाती रहती है? (भाग-2)

6. मौसम की मार

अपने देश में अधिकांश शेड ओपन हैं। इनवायरमेंट कन्ट्रोल हाउसेज बनने शुरू हो गये हैं परन्तु इनकी लागत इतनी ज्यादा है कि सबके बस की बात नहीं है। इसमें निरन्तर बिजली चाहिये और बैकअप के लिए जनरेटर। बिजली भी मंहगी होती जा रही है और डीजल भी। बिजली का भी पता नहीं कितनी देर आयेगी और कब कट जायेगी। लम्बी गई तो क्या बैकअप के साथ एक और बैकअप भी चाहिये। सोलर या पोल्ट्री मैन्योर से बिजली उत्पन्न की जाये तो सस्ता काम हो सकता है। यहां ओपन हाउस को ध्यान में रखकर इस विषय पर लिखा गया है।

- कहने को अपने देश में 3 मौसम है जाड़ा-गर्मी और बरसात परन्तु पोल्ट्री में सुबह-दिन-शाम और रोज रात 4 मौसम और है। हमें अपने मैनेजमेंट में इसी के साथ तबदीलियां करनी पड़ती हैं।
- जाड़े के मौसम को आप कह सकते हैं सुख चैन का मौसम है। पहले लेयरर्स और ब्रायलर ब्रीडर्स की बात करते हैं। यहां पूरे ठण्ड के मौसम का मुकाबला कुशल पर्दाकरण से ही कर सकते हैं। मुख्य ध्यान की बात है जब शीत लहर हो तो दिन में भी पर्दा नीचे से उपर उस उंचाई तक रखे जो फ्लाक को सीधे हिट ना कर सके, भले ही हवा उनके उपर से क्रास कर जाये। जिस ओर से हवा अन्दर आ रही है उस ओर का पर्दा जरूर इस प्रकार लगायें।
- शाम को पर्दा कब लगे, आप को शेड के अन्दर का तापमान देख कर स्वयं निर्णय करना है। अगर पूरा पर्दा लगाकर बन्द करना है तो भी हर हाल में उपर डेढ से दो फिट उपर से दोनो ओर खुला रहे। जिससे क्रास वेन्टिलेशन बना रहे। पूरा सील ना करे, इससे शेड के अन्दर अमोनिया गैस की मात्रा बढ़ेगी जो तरह तरह की समस्या करेगी। लगी हुई वैक्सिन द्वारा उत्पन्न इम्युनिटी को अधिक मात्रा की अमोनिया गैस नष्ट कर सकती है और किसी वायरल डिजीज की आउटब्रेक हो सकती है।
- कुछ फार्मस पर्दों को इधर उधर से या नीचे से खुला छोड़ देते हैं, यह बहुत ज्यादा हानिकारक है।
- जाड़ा शुरू होते ही I.B.+ लासोटा का बूस्टर डोज जरूर लगा दें और हर 7-8 सप्ताह पर लगाते रहें।
- अब गर्मी की बात करते हैं। यह मौसम हर लिहाज से पोल्ट्री मैनेजमेंट के लिये एक चैलेन्ज के रूप में आता है। प्रोडक्शन कम होना, अण्डे का भाव घटते जाना, गर्मी के कारण एका एक मार्टिलिटी का होना वह भी फ्लाक की सबसे अच्छी अण्डे देने वाली मुर्गियों का।
- इन सब चुनौतियों के बावजूद एक कामयाब पोल्ट्री किसान जरूरत के हिसाब से शेड के तापमान को अपने 'जुगाड़' से कम से कम रखने की कोशिश करता है और सफल भी होता है।
- सफल किसान गर्मी प्रारम्भ होने से पहले ही शेड को ठण्डा रखने के हर जुगाड़ को तैयार रखता है एवं आवश्यकता पड़ने पर उसे

तुरन्त चालू करता है। अपने जुगाड़ से शेड का तापमान जितना भी नीचे ला सकते हैं उतना ही अधिक बचाव होगा, जिसका लाभ मिलेगा।

- यह जुगाड़ है क्या? शेड के छत के उपर 4-5 इंच मोटा पूला या धान की प्राली का छप्पर डाला, इसके उपर स्पिन्कलर लगाकर पानी से गीला करते रहना, जिस ओर से हवा अन्दर आ रही उधर जूट का पतला पर्दा लगाकर गीला करते रहना। बहुत से किसान छत पर चलते स्पिन्कलर के पानी को इस पर्दे पर गिरने देते हैं जिससे यह गीला बना रहता है। कभी कभी दोनों और गीला बनाये रखने के लिये दूसरी ओर का भी पर्दा लगा देते हैं।
- कुछ किसान एक कदम और आगे बढ़ जाते हैं अन्दर शेड में फॉर्गस लगाते हैं जिसे 3-4 मिनट चला कर लगभग आधे घण्टे के लिये बन्द कर देते हैं ताकि 'नम' हुई मुर्गी के 'पर' सूख जाये। इस सूखने की प्रतिक्रिया में तापमान और गिरता है। इसके लिये आप 'टाइमर' का उपयोग करें जिससे पानी 'ON-OFF' अपने आप होता रहे। फॉर्गर चल रहा हो या मुर्गी गीली हो और उपर पंखा चल रहा हो तो और अधिक ठण्डा का एहसास होगा।
- जब गर्मी का दबाव या स्ट्रेस बढ़ता है तो मुर्गीयां स्वयं गुहार-शोर मचाती है "मुझे गर्मी लग रही है" मुंह खोल कर 'हक-हक' की आवाज निकालती हैं-सांस लेती है जिसे 'पेन्टिंग' कहते हैं। हमें इस 'हलचल' से कुछ देर पहले की कूलिंग व्यवस्था चालू कर दें।
- गर्मी में विशेष रूप से फीड एवं फीडिंग पर ध्यान रखना चाहिये। जैसे जैसे तापमान बढ़ता है फीड की खपत कम होती जाती है। फीड की खपत पोल्ट्री में मौसम के हिसाब से उनकी एनर्जी की आवश्यकता के अनुकूल होती है। जाड़े में उर्जा अधिक और गर्मी में उर्जा की आवश्यकता कम चाहिए अतः फ्लाक जाड़े में अधिक और गर्मी में कम फीड खाने लगता है। हीट स्ट्रेस के कारण फीड की खपत कम होने के साथ ही उत्पादन घटने लगता है।
- उत्पादन घटने लगता है कारण स्पष्ट है इनर्जी की आपूर्ति होते ही फ्लाक ने फीड कम खाया जो मान ले 30 ग्राम कम खाया। इस 30 ग्राम से जो चिक्स को प्रोटीन, एमीनोएसिड, विटामिन, मिर्नल्स, कैल्शियम, फासफोरस इत्यादि मिलना था वह कम मिला, अतः उत्पादन पर तो असर पड़ना ही था वह पड़ा। जितना भी फीड की खपत नीचे जायगी उतना उत्पादन घटेगा। इस कारण से गर्मी में अण्डे की टूट-फूट या ब्रेकेज भी बढ़ती रहती है। इस नुकसान से बचने के लिये आपको जहां कूलिंग व्यवस्था तो करना ही साथ फीड फार्मूलेशन में भी आवश्यकतानुसार बदलाव करना पड़ेगा। इसमें अन्य घटक बढ़ाना होगा ताकि इनकी कमी ना रहे। इससे उत्पादन बनाये रहने में मदद मिलेगी।
- गर्मी में पानी पर विशेष ध्यान रखे सदैव ठण्डा रहे तभी पक्षी इसे पियेंगे अन्यथा मुंह लगा कर हटा लेंगी। PVC पाईप जो छत के नीचे लगा है जहां सबसे अधिक गर्मी होती है पीने के पानी का गर्म होना लाजमी है। अतः इस बात का ध्यान रखें एवं ठण्डा रखने की योजना बनाये।

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NUQO® SAFE: Advance solution for adverse conditions.



NUQO® RED ANTI-INFLAMMATORY SOLUTION

NUQO® RED: Maximize Efficiency, Release Energy.



NUQO® MIN SEL 3000 ORGANIC SELENIUM

NUQO® MIN SEL 3000: Nature's Superior Yeast Source of Organic Selenium.



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- अब बरसात की भी बात कर लेते हैं— फिल्मी गीतों में तो इसे बड़ा 'सुहावना' मौसम कहा गया है परन्तु पोल्ट्री के लिये यह मौसम 'कभी खुशी कभी गम' का है। जब बारिश हो रही है तो खुशी, जब बन्द हो गई और कई दिन चटकती धूप रही तो यह गम का समय शुरू हो गया, जो गर्मी से भी दुखदाई है। अतः जो गर्मी की चुनौतियों का सामना करने के लिये जुगाड़ कर रखा है उसको रहने दें। इसका कभी भी इस्तेमाल करना पड़ सकता है।
- बरसात में अजीब विडम्बना है। सुबह से 10–11 बजे तक अच्छी हवा चल रही है। इसके बाद वह धीरे धीमी पड़ती है और 1 बजे के लगभग 'गुम' हो जाती है। शाम 4–6 बजे का समय सबसे 'खतरनाक' हो जाता है। यही वह समय है जब एका एक काफी मार्टिलिटी हो सकती है, वह भी पलाक में सबसे अच्छा अण्डा देने वाली मुर्गियों की या ब्रायलर में सबसे बड़े तन्दुरुस्त ब्रायलर की। यह बहुत बड़ा नुकसान है।
- बरसात में पंखों की बहुत उपयोगी आवश्यकता है। जब हवा 'गुम' होगी यही सबसे बड़ा सहारा बनेगा।
- बरसात से पहले जालियों को और शेड में लगे जालो को ठीक से साफ कर दें। पर्दों को ठीक से लपेट दे उपर तक। पेड़-पौधे जिनकी डालियों हवा के आदान प्रदान में रुकावट हैं उन्हें काट दें। शेड के चारों ओर झाड़ झांकार जड़ से साफ कर दें। शेड के आस पास कोई भी उंची फसल जैसे मक्का, बाजरा इत्यादि ना लगायें।

7. गर्मी और बरसात में फीडिंग और पानी

- इन दोनों मौसम में आवश्यक—न्यूट्रिन्ट पर हमेशा विशेष ध्यान देना होगा।
- पानी के बारे में एक बात समझ लें। गर्मी में इसका तापमान सदैव कमरे के तापमान से काफी नीचे होना चाहिए जब कि जाड़े में इसके विपरित हैं कमरे के तापमान से कभी भी नीचे नहीं होना चाहिये।
- ठण्डे पानी की शर्त गर्मी और बरसात दोनों के लिये है। सुबह 9 बजे से शाम तक पानी में कोई अच्छा इलेक्ट्रोलाइट देते रहें साथ में एक पानी में हर्बल विटामिन सी दे दें और बेहतर होगा।
- कोई भी प्रोडक्ट जब पानी में दे तो ध्यान रखे कि पानी उतना ही हो जिसे गर्म होने से पहले ही पलाक खत्म कर दे। फिर ताजे ठण्डे पानी में मिलाकर देते रहें।
- फीड के बारे में एक महत्व की बात समझ लें। दाना खाने के लगभग 4 घण्टे बाद उनके शरीर में गर्मी 'पीक' पर होगी। यह वह समय है जब वातावरण में तापमान पीक पर होगा। ऐसे समय में गर्मी का स्ट्रेस बहुत जर्बदस्त पड़ेगा। लेयर हो या ब्रायलर असहाय होगा। यह मृत्यु का कारण भी बन सकता है।
- हमें फीड 24 घण्टे के सबसे ठण्डे समय में ही देना है।
- आमतौर जो हम अतिरिक्त लाईट देते हैं वह सुबह 4 बजे से सूरज निकलने तक और फिर शाम को 8 बजे तक। इस प्रकार कुल 16 घण्टे लाईट देते हैं।
- गर्मी में सुबह इसे 3 बजे से कर दें। इस तरह अब 17 घण्टे लाईट हो जायेगी।

- मौसम के हिसाब से शाम को 4 या 5 बजे इतना दाना लगायें जो सुबह 6–7 बजे तक चल जाये। सुबह उतना ही दाना लगाए, जो सुबह 9 बजे तक बिल्कुल साफ हो जाये।
- 9 बजे सुबह से 4–5 बजे तक वह सिर्फ पानी पर रहेगी जो शरीर को ठण्डा रखेगा।
- इस प्रकार की फीडिंग से उत्पादन पर कोई दुष्प्रभाव नहीं पड़ेगा और नाही मार्टिलिटी की सम्भावना होगी।
- यही प्रोग्राम बरसात में भी चलेगा।
- ब्रायलर में भी दिन में यही प्रोग्राम रहेगा विशेष रूप से 1200–1300 ग्राम के उपर के ब्रायलर्स में।
- ब्रायलर को तो रात भर लाईट मिलती है उन पर भी इसका कोई बुरा असर नहीं पड़ेगा। हां मार्टिलिटी जरूर ना के बराबर रहेगी।

8. लीटर मैनेजमेंट

- किसी भी पलाक के उच्चतम परफॉर्मेंस में सही लीटर मैनेजमेंट का बहुत बड़ा महत्व है परन्तु हम आमतौर से इसको महत्व नहीं देते। वैसे लेयर्स या ब्रीडर्स अधिकांश केज में चले गये हैं। हां ब्रायलर अब भी सारे ही डीप लीटर पर हैं। ब्रायलर ग्राउर्स अक्सर जब माल तैयार होता है तो वाट्सऐप पर पलाक की फोटो डालते हैं। मेरी पहली नजर बुरादे—लीटर पर जाती है जिसकी बड़ी दयनीय हालत होती है।
- जो भी विछावन आप इस्तेमाल करने जा रहे हैं जैसे लकड़ी का बुरादा या छीलन या धान का छिलका उसको पहले धूप में फैला कर ठीक से सुखा लें।
- इसके बाद उस पर किसी अच्छे डिसइन्फेक्टेंट का स्प्रे करें। इसे उलट पलट कर 2–3 बार करें। इसके बाद शेड में डालें। ऐसा ना करने पर यह बीमारी का कारण बन सकता है।
- अन्दर डालने के बाद इसमें 3 ग्राम चूना पाउडर और 2 ग्राम ब्लीचिंग पाउडर प्रति स्केयर फिट ठीक से मिला दें।
- अब इसमें आप चूजे डाल सकते हैं प्रारम्भ में इसकी गहराई डेढ़ इंच रखें और हर सप्ताह थोड़ा-थोड़ा बढ़ा कर 3–4 सप्ताह तक 3.5–4 इंच तक कर दें। आमतौर से किसान 1–2 इंच पर ही ब्रायलर तैयार कर निकाल देते हैं। यह गलत है इसका अप्रत्यक्ष असर ग्रोथ और बिमारियों पर पड़ता है।
- कम बुरादा होने पर यह जगह जगह जमना और केक बनना शुरू हो जाता है। अधिक गीला रहता है जबकि सूखा रहना चाहिए।
- प्रारम्भ के 10 दिन में लीटर को 2–3 बार खुरपी से उलट पलट कर दें। इसके बाद प्रति दिन एक बार रेकिंग रेकर द्वारा अवश्य करते रहे। इससे लीटर में नमी और अमोनिया कम से कम मात्रा में होगी।
- गीले या नम बुरादे पर पालने से उनके पंजों—फुटपैड पर जख्म और फीड की खपत में अनायास बढ़ोत्तरी होगी जिसका कोई लाभ नहीं होगा।
- लीटर की हालत जितनी खराब होगी उतनी ही बिमारियों की सम्भावनाएँ बढ़ेंगी। जिसमें Coxy, CRD एवं ई—कोलाई प्रमुख है। अतः इसे अच्छे से अच्छा बनाये रखने का हर जतन करें।

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Bursal Disease-Marek's Disease Newcastle Disease Vaccine, Serotype 3, Live Marek's Disease Vector

Vaxxitek HVT-IBD+ND

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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, Prajsha Nagar, Eastern Express Highway, Vilekhal (E) | Mumbai 400079.

Last review date: 09/08/2024

Additional information is available on request.

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9. वेन्टीलेशन:-

- स्वच्छ हवा का पोल्ट्री में दाने और पानी से कम महत्व नहीं है पर खेद है इस पर हम कोई विशेष ध्यान नहीं देते। एक दिन के बच्चे से लेकर अन्त तक यह एक महत्वपूर्ण न्यूट्रिन्ट है।
- एक दिन का चूजा आता है तो विशेष रूप से जाड़े में हम पूरे शेड को सील कर देते हैं कहीं से हवा की गुन्जाइश नहीं छोड़ते। उपर से तापमान देने के लिये अन्दर बुखारी इत्यादि चाहिये जिसमें बुरादा जलाया जाता है। इसे जलने के लिये आक्सीजन चाहिये। जो थोड़ी बहुत हवा आ रही है उसे जलने के लिये बुखारी को प्रयाप्त हवा ना मिलने पर पूरी गर्मी नहीं देती अतः ठण्ड से चूजे मरते हैं। हम तुरन्त बुखारी बढ़ा देते हैं। उधर गैस के कारण मरते हुए चूजों को कोई एन्टीबायोटिक दे देते हैं। असल वजह ना पकड़ पाते हैं और नाही उस ओर ध्यान जाता है। इसका असर चूजों की ग्रोथ पर पड़ता है फीड की खपत पर एवं अवरोध क्षमता पर पड़ता है।
- रो-पीट कर माल तैयार होता है परन्तु जो उनकी सेहत होनी चाहिये वह नहीं होती, छोटे-बड़े में अन्तर बहुत होता है। एक तरह से आप लॉट को खराब ही समझें।
- वेन्टीलेशन होना कैसा चाहिये? छोटा हो या बड़ा प्रारम्भ से कम या ज्यादा हवा के आदान प्रदान के लिये दोनों ओर के पर्दों में उपर से कुछ ना कुछ खुला रहना चाहिये। कितना खोलना है यह वातावरण के तापमान और उम्र के हिसाब से होता है, भले ही 2 या 3 इंच हो।
- ब्रूडिंग के समय उम्र के हिसाब से आवश्यक तापमान को बनाये रखते हुये आप जितना उपर से खोल सकते हैं खोले। यह रात में कुछ कम और दिन में कुछ ज्यादा, हालात के हिसाब से खुला रखना अनिवार्य है।
- लेयर्स-ब्रीडर्स एवं बड़े ब्रायलर में उपर से 1.5 से 2 फिट तक जाड़ों में हवा के आदान प्रदान के लिये रात में भी अवश्य छोड़े।

10. अमोनिया:-

- यह पोल्ट्री के लिये सबसे घातक गैस है जो भिन्न तरीको से फ्लाक को नुकसान पहुंचाती है। इसका पोल्ट्री के साथ चोली-दामन का साथ है। इसका जिक्र इस लेख में कई जगह आया है।
- कम मात्रा में तो यह सदैव रहती है जो डीप लीटर शेड की मुख्य समस्या है। केज में भी हो सकती है।
- इसकी अधिक मात्रा आपकी नाक और आंख दोनों में जलन पैदा कर सकते हैं। नाक से इसकी कड़वी महक आपको बता देगी इसकी मात्रा बढ़ गई। आंख से अगर पानी आने लगा तो समझ जाये कि मात्रा बहुत अधिक है। दोनों हालात में फ्लाक में भिन्न भिन्न समस्याओं के आने का सूचक है जिसमें बिमारियां भी शामिल है।
- फ्लाक में कई मुर्गी या ब्रायलर की आंखों की बाहरीरिंग काली होती दिखेगी। कारण आंखों से पानी निकल कर उस रिंग को गीला करेगी फिर उस पर धूल-गर्द चिपक कर उसे काला करेगी। अन्त में यह 'कन्जवाइटिस' की शकल अखतियार कर सकती है।

- फ्लाक में नाक से भी पानी आ सकता है जो बाद में C.R.D. का रूप धारण कर लेगा और साथ ई-कोलाई देगी।
- इसके इलावा जो सबसे घातक है कि जो वैक्सिन लगा कर आपने इम्यूनिति विशेष बिमारियों की बनाई है उसे नष्ट कर देगी और किसी भी वायरल बीमारी की आउटब्रेक हो सकती है।
- किसी कारण से यह सब समस्या नहीं आई पर फ्लाक लम्बे समय से अमोनिया युक्त हवा का आदान प्रदान कर रही है तो ग्रोथ में कमी, उत्पादन में कमी, F.C.R. में गड़बड़ी सुनिश्चित है।
- इस गैस का सदैव निदान करते रहें जिसके लिये आप को उचित वेन्टीलेशन और उचित लीटर की कन्डीशन बनाये रखना है। इस काम के लिये लीटर की प्रतिदिन रेकिंग और लीटर की गहराई पर ध्यान दें।
- अब बहुत अच्छे प्रोडक्ट आ रहे हैं जो बुरादे में मिलाने से बैक्टीरिया, वायरस, फंगस, प्रोटाजोआ एवं अमोनिया सभी पर विराम लगाने में समक्ष है।

11. वैक्सीनेशन प्रोग्राम

- दुखद है जब से वैक्सीनेशन प्रोग्राम वैक्सीन बनाने वालों के हाथ में आ गया है तब से वैक्सीन लगाने की संख्या या लोड बढ़ता जा रहा है। सारे वैज्ञानिक तथ्य 'ताक' पर रख दिये गये हैं। बस आप वैक्सीन ठोकते जाइये।
- इनके प्रोग्राम के तहत प्रारम्भ में तो हर दूसरे तीसरे दिन वैक्सीन ठोकी जा रही है। हद है कि कुछ वैक्सीन तो 7-8 दिन पर रिपीट भी हो रही है। कहीं कहीं तो 30 सप्ताह में 30 वैक्सीन ठोक दी गई। कहां तक उचित है? हमारे देश के प्रसिद्ध वैज्ञानिक भी इस मुद्दे पर मुंह पर टेप लगा कर बैठे हैं जिनसे हमें उम्मीद है सही मार्ग दर्शन की।
- क्या सचमुच इतनी वैक्सीनेशन 'ठोकने' की आवश्यकता है? शायद नहीं परन्तु आप अपने इलाके के तजुर्बेकार एक्सपर्ट से राय ले लें और उसके हिसाब से चलें।
- ध्यान रहे हर वैक्सीन कुछ ना कुछ तनाव (स्ट्रेस) डालती है, साथ में हैण्डलिंग भी स्ट्रेस डालती है अतः एन्टीस्ट्रेस फीड एवं अच्छा इम्यूनोमोडुलेटर इस दौरान अवश्य दें।
- गर्मी और बरसात में वैक्सीन 24 घण्टे के सबसे ठण्डे भाग में ही करें।
- वैक्सीनेशन के साथ दूसरे आप्रेशन जैसे शिफ्टिंग आदि ना करें।

12. एक समय में एक ही फ्लाक (ALL-IN-ALL-OUT)

- विशेषरूप से ब्रायलर मैनेजमेंट के सेमीनार में मेरा एक सवाल किसानों से जरूर होता था जब आपने नया शेड बनाया, आपको तजुर्बा भी नहीं था जो फ्लाक तैयार हुआ जिसमें दवा भी ना के बराबर लगी, मार्टिलीटी कम थी, वजन बहुत अच्छा आया, FCR कम था- क्या बाद के लॉटों में आपको वैसा ही रिजल्ट मिला? 90 प्रतिशत का जवाब ना में होता था।
- इसका साफ मतलब है कि हम ALL-IN-ALL-OUT पद्धति को अपनायें एवं हर लाट में पहले जैसा ही रिजल्ट प्राप्त करें।

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- जब पूरा लाट निकल जाये तो शेड की ठीक से सफाई, धुलाई, सफेदी करके कम से कम शेड को 10 दिन के लिये खाली (REST) के लिये छोड़ दें। जब धुलाई कर रहे हैं तो पर्दे एवं बर्तनों की भी धुलाई कर दें। बर्तनों को कुछ घण्टे के लिये धूप में रहने दें फिर शेड में रख दें। ज्यादा समय तक धूप में ना रखें। यह PVC है— इनकी उम्र कम हो जायेगी।
- सफेदी के बाद अच्छे डिसइन्फेकटन्ट का स्प्रे भली भांती कर दें। छत से शुरू करे सारी दीवारों, पर्दे, और फर्श पर भी करें।
- शेड के अन्दर चारों ओर 15–20 फुट की दूरी तक सूखी सफाई कर वहां भी स्प्रे कर दें।
- इस प्रकार आपने शेड को भलिभांती 'डिपापुलेट' कर दिया जिससे प्रत्यक्ष एवं अप्रत्यक्ष ज़िवाणु को भी समाप्त कर दिया।
- टंकी और शेड के अन्दर की फ्लशिंग किसी सुरक्षित सेनीटाइजर से अवश्य कर दें।
- 10 दिन रेस्ट के बाद आप चूजा डालेंगे उसका रिजल्ट पहले जैसा आने की पूरी सम्भावना है।
- दुख है किसान को अच्छा भाव मिल गया और आगे अच्छा भाव मिलने की उम्मीद है 3–4 दिन बाद ही नया लाट डाल लेते हैं 'ड्राई क्लीनिंग' के बाद। इस तरह बीमारियों को न्यूता देते हैं और सिद्धांतों को ताक पर रख देते हैं।

13. बीमारियों की रोकथाम:—

- बीमारियों की रोकथाम आपकी सफलता की कुन्जी है। इसका जिक्र बीच बीच में आता रहा है।
- एक बैक्टीरिया कितना भारी पड़ सकता है यह आप पहले पढ़ चुके होंगे। हताश होने की आवश्यकता नहीं है। बहुत अच्छे डिइन्फेकटन्ट आ गये हैं। उसी में से एक सुरक्षित जो फ्लाक के रहते स्प्रे किया जा सकता है उसका स्प्रे करें। कुछ स्प्रे ऐसे हैं जो 7 दिन तक एक्टिव रहते हैं उन्हें हर सप्ताह स्प्रे करें। काफी सुरक्षा, बैक्टीरिया, वायरस इत्यादि के खिलाफ प्रदान करते हैं।
- एक और समस्या है माईको प्लाज्मा जो एक दिन के चूजे में हैचरी से ही आ सकते हैं। अतः इसका प्रिवेन्टिव ट्रीटमेंट पहले—दूसरे और तीसरे दिन करें। पुनः 21–22 दिन पर कर दें।
- माईको प्लाज्मा जो CRD या CCRD का कारण है इसके लिये भारत में 2 प्रोडक्ट उपलब्ध हैं टायलोसिन और टायम्युटिन, इन्हीं का उपयोग करें।
- फीड में एसिडिफायर और टॉक्सिन बाइन्डर एवं पानी को सेनीटाइजर कर रखा है और अब स्प्रे एवं माईकोप्लाज्मा का प्रिवेन्टिव देकर काफी सुरक्षा कवच प्रदान कर दिया है अतः बीमारियों की रोकथाम में आपको सफलता मिलनी ही चाहिये।

14. निरीक्षण—(OBSERVATION) :—

- पोल्ट्री में कामयाबी का यह महत्वपूर्ण भाग है जिसे हम आमतौर से करते ही नहीं। हां जब मार्टीलिटी होने लगती है तब जाग जाते हैं।

- सप्ताह में एक या दो बार फ्लाक के साथ कुछ समय व्यतीत करें और उन्हें चुपचाप ध्यान से आवजर्ब करें कोई समस्या तो नहीं।
- उनकी चाल देखें — चलने में दिक्कत है लड़खड़ा रहे हैं या लंगड़ा रहे हैं तो कैल्शियम या विटामिन डी एवं मैंगनीज पर ध्यान दें या विशेषज्ञ से कन्सल्ट करें।
- पास पास पड़ी 10 ड्रॉपिंग (बीठ) गिन लें यदि सब बन्धी हुई कम से कम पानी के साथ है तो नार्मल है परन्तु यहीं पतली फैली और अधिक पानी के साथ है जैसे दस्त, तो समस्या है। तुरन्त VET से परामर्श करें।
- इस दस में कुछ ठीक है कुछ पीली, कॉपर क्लर या हरी या चॉकलेटी है तो चेक करवा लें।
- यदि बीठ में खून हो तो Coxy की पूरी सम्भावना है। तुरन्त इलाज करें।
- पतली बीठ में दाना आ रहा है तो गट हेल्थ की समस्या है।
- यदि कुछ बर्ड के वेन्ट के पास बीठ चिपकी या दस्त चिपका हो गट हेल्थ की समस्या है।
- वेन्ट के पास चिपकी बीठ एवं दस्त के साथ वहां कुछ सफेद कीड़े हो तो यह मक्खी ने वहां अण्डा दिया उसका लारवा है तो यह भी गट हेल्थ की समस्या है।
- 5–6 दिन के चूजे मुंह खोल कर सांस ले रहे हो तो फफून्ड रोग (Aspergilosis) की सम्भावना है। जांच के बाद कॉपर सल्फेट सिरके से ईलाज कर सकते हैं।
- कुछ 3–4 सप्ताह या इससे बड़े बच्चे की नाक के पास धूल—बुरादा के कारण कालापन है तो CRD की सम्भावना है बाद में यह सांस लेने में खरखराहट की आवाज भी निकालेंगे।
- कुछ बच्चे फूल कर आंख बन्द किये बैठे हैं तो समझ ले कोई समस्या आ टपकी है।
- बच्चे ठीक हैं, परन्तु छोटे बड़े हैं इसका मतलब स्पेस रहने या फीडर कम है। चेक कर लें कमी को पूरा करें और तुरन्त ग्रेडिंग कर दें। इससे छोटे बच्चों को खाने पीने को मौका अधिक मिलेगा और ग्रोथ ले लेंगे।
- निरीक्षण या आबजरवेशन से आप बहुत सी समस्याओं को गहरी समस्या से पहले की पकड़ सकते हैं। अच्छे VET से तुरन्त कन्सल्ट करें और सही ईलाज करें।
- लिखने को बहुत कुछ है परन्तु सभी ब्रीडिंग कम्पनियों ने अपना अपना मैनेजमेंट मैनुअल दे रखा है उनका तो अनुसरण करें। यहां उन्हीं मुद्दों पर जोर दिया गया है जिन्हें जाने अनजाने हम अवहेलना करते आ रहे हैं।



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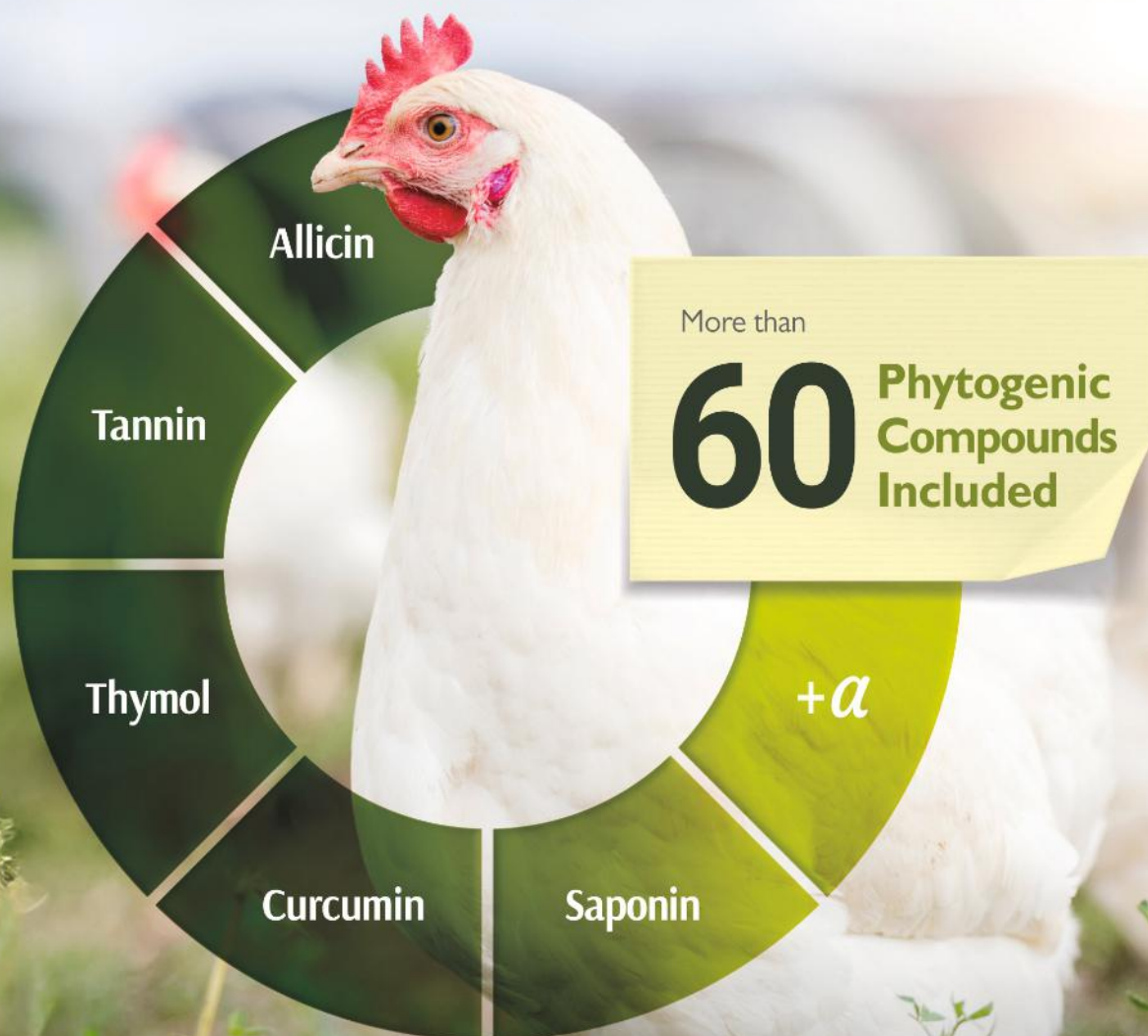
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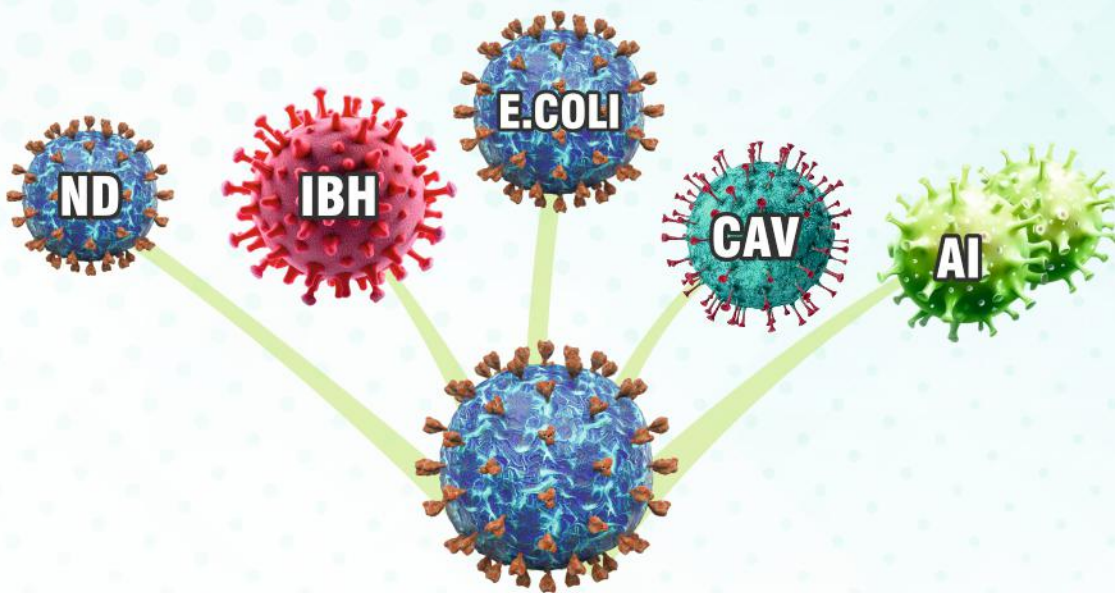
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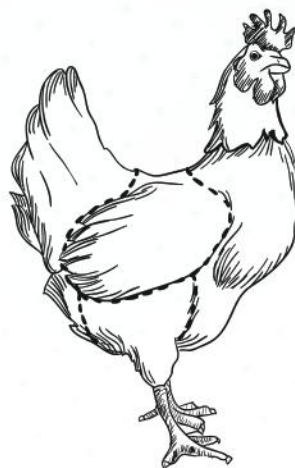
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Role of Dietary Threonine on Broiler Performance

Satish V Dakore, Avinash B. Ranvir, Kirti A. Jadhav

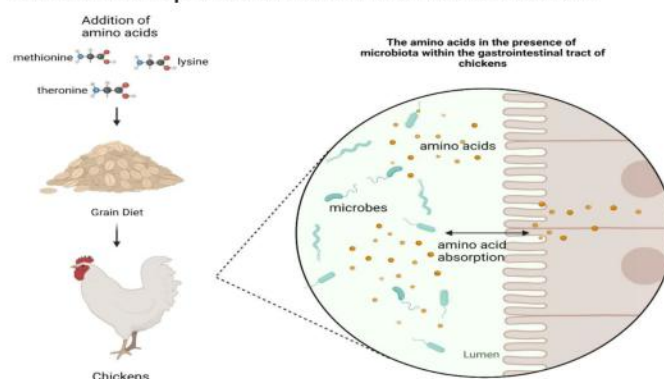
Poultry farming is one of the fastest-growing sectors of livestock production in India, contributing significantly to national income and rural employment. Feed represents more than 70% of the total cost of broiler production, with dietary protein constituting one of the most expensive components. Proteins are composed of amino acids, of which essential amino acids cannot be synthesized in sufficient quantities by birds and therefore must be supplied through the diet. An adequate and balanced supply of essential amino acids is crucial for achieving optimal growth, feed efficiency, and overall productive performance in broiler chickens.

In broiler nutrition, methionine and lysine are the first two limiting amino acids, followed by L-threonine. Broiler cannot sufficient threonine must be obtained from corn soyabean meal diet. Threonine becomes more critical when crude protein levels are reduced in diets of synthetic amino acids. While, lowering dietary crude protein helps diminish feed cost and environmental nitrogen load, improper amino acid balance can negatively affect broiler growth performance, feed efficiency, and carcass characteristics. Therefore, maintaining an adequate dietary threonine level is essential in low-protein diets to meet the birds' requirements without compromising productive performance. Total dietary level of threonine ranges from 0.70 to 0.93% reported. Threonine is the key component of intestinal mucin; act as a filtrating barrier in intestine have impact on nutrient digestion and absorption. Mucin is a glycoprotein able to maintains intestinal health, immune function by protecting the intestinal epithelium from acidic chyme, pathogens, and digestive enzymes. Therefore, precise threonine supplementation to raise feed intake, weight gain and sustain overall growth performance. If the diet contains improper balance of threonine led to decline in growth rate, feed efficiency, and overall production performance.

Effects on Gut Health

The gut is an important system responsible for nutrient absorption and immune defense. In intensive poultry production systems, intestinal health plays a crucial role in determining the growth performance, feed efficiency, and overall economic profitability of poultry farming. supplementation threonine had no significant effect on the relative lengths of intestinal segments, crypt depth, or goblet cell numbers but improvement in the absorptive surface area and nutrient utilization capacity of the intestine. Therefore, some researchers have shown that supplemented threonine increases duodenal villus height increased at 0.89% threonine, while jejunal villus width

increased at 0.93%, and significantly improved the villus height-to-crypt depth ratio. Ultimately, optimal level of dietary threonine can promote intestinal morphological development and maturation, thereby enhancing nutrient absorption and overall intestinal function.



Effects on Growth Performance

when dietary crude protein levels were below 20%, did not improve body weight gain in broiler, level of protein in diet is required. If marginal dietary deficiencies of threonine may result in economic losses due to increased feed conversion and reduced breast meat accretion in broilers. Therefore, optimum level of digestible Threonine needs to support optimum growth and act as a precursor of lysine and serine. The recommended supplementation of L-Threonine 110% significantly improved body wight gain, feed efficiency, feed conversion ratio and support better carcass quality. In contrast beyond basal level of dietary threonine did not further growth.

Effect on Immunity

Immunity plays a major role in improving maximum growth performance, immune status, along with function of immune organs. Supplementation of dietary threonine above the NRC recommendation improve weight of immune organs (spleen, thymus) result in T-lymphocytes production. Furthermore, threonine influence on immune responses of birds by modulating the gut microbial flora and secretion of immunoglobulin IgA, leads to alleviates immune stress induced by *Escherichia coli* or Newcastle disease virus (NDV) infection in challenged birds.



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• Enramycin 8% (Premix)	-	25 KGS/BAG
• Nosiheptide 1% (Premix)	-	25 KGS/BAG
• Robenidine HCL 10% (Premix)	-	25 KGS/BAG
• Tiamulin Hydrogen Fumarate 10% (Granular)	-	25 KGS/BAG
• Tylosin Phosphate 10% (Granular)	-	25 KGS/BAG
• Vitamin E 50% (Granular)	-	25 KGS/BAG



Effect on Feed Intake

Under restricted feeding conditions, many researchers have reported that threonine supplementation does not significantly affect feed intake. Feed intake generally remains relatively stable regardless of whether the dietary threonine level is high or low. Additionally, threonine influences the efficiency of nutrient utilization rather than voluntary feed intake.

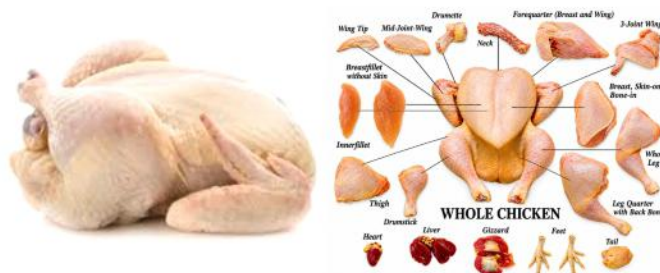
Effect on Feed Conversion Ratio (FCR)

Optimized dietary L-threonine supplementation significantly improves the feed conversion ratio (FCR) and overall growth performance in broiler chickens, but once the ideal threonine level is reached, further supplementation may not yield additional improvements in FCR.

Effect on Carcass Traits

The threonine requirement for optimal carcass yield in broilers is variable and depends on several factors, including age, strain, sex, crude protein (CP) content of the diet, and the type and proportion of dietary ingredients used. Several studies have reported that dietary threonine levels of 0.64%, 0.71%, and 0.78% significantly improved eviscerated carcass yield compared with lower supplementation levels. Furthermore, increasing dietary threonine concentrations has been associated with improved breast

meat color, as indicated by increased redness and reduced lightness (brightness). These findings suggest that dietary threonine may preferentially enhance muscle deposition in specific carcass components, particularly breast muscle, rather than causing a generalized increase in total carcass yield.



Conclusion

Dietary threonine supplementation has a positive influence on growth performance, feed conversion efficiency, intestinal morphology, and carcass characteristics in broiler chickens, while feed intake generally remains unaffected. Improved intestinal structure enhances nutrient digestion, absorption, and utilization, thereby promoting greater body weight gain and muscle deposition. Overall, threonine can be considered an effective functional amino acid for improving broiler productivity and carcass quality when supplemented at appropriate levels.

EVENT CALENDER

OCTOBER 2026

7TH WVPA ASIA MEETING 2026

9-10 OCT 2026

Venue : NASC, New Delhi, India

Contact Person : Dr Barman Bichitra

Phone : +91 95036-50001

Email : dr.barman@gmail.com

Web : www.wvpaasiameeting2026.com



NOVEMBER 2026

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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



EuroTier 2026

10-13 November 2026

Venue : Exhibition grounds, 30521 Hanover, Germany

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Web : www.eurotier.com



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

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FEBRUARY 2027

13TH KOLKATA INTERNATIONAL POULTRY FAIR 2027

12-15 FEBRUARY 2027

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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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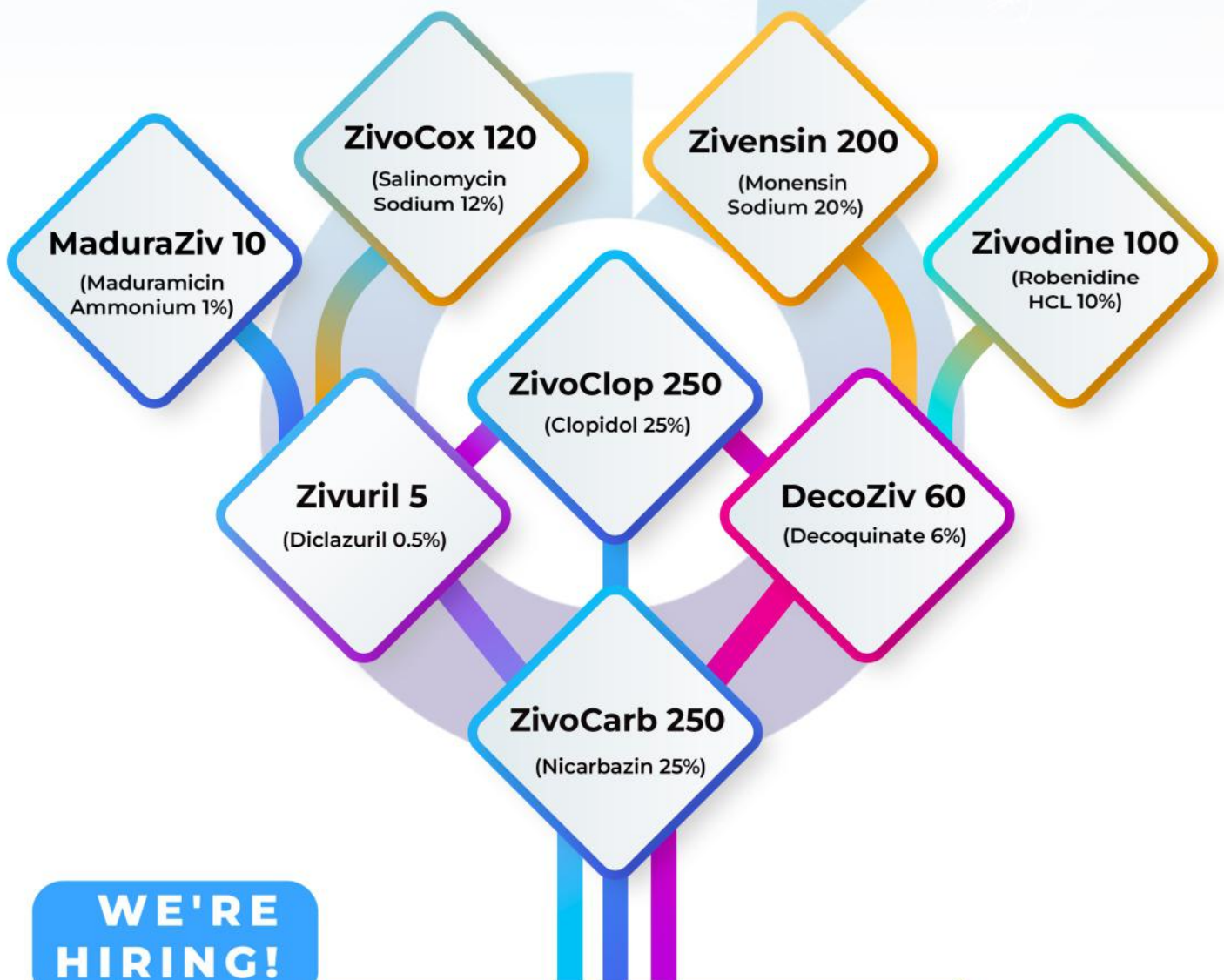
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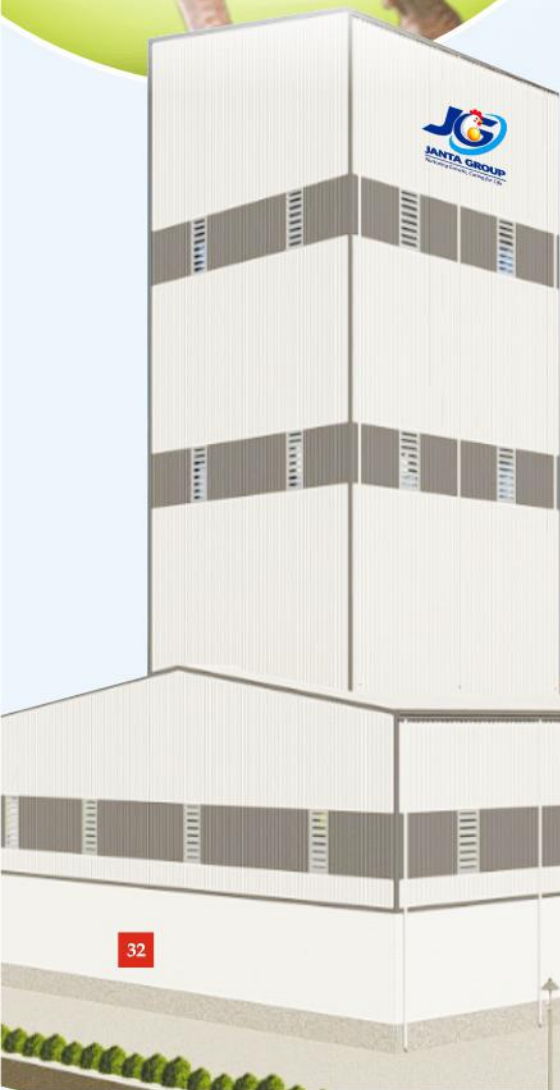
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Phytogenic Bioactives for Gastrointestinal Health Management In Poultry: A Scientific Review

A review of the pharmacological evidence for five traditional herbal bioactives used in avian enteric health management

By Dr Manish Mukherjee

Abstract

Gastrointestinal disturbances remain among the costliest challenges in commercial poultry production, contributing to wet litter, pasty vent, impaired nutrient absorption and depressed flock performance. With regulatory and consumer pressure limiting antibiotic growth promoters, phytogenic feed additives derived from traditionally used medicinal plants have drawn renewed scientific interest as adjuncts for managing enteric complications. This review synthesises the published pharmacological evidence for five botanicals long used in South Asian ethnoveterinary and Ayurvedic practice – *Aegle marmelos* (bael), *Helicteres isora* (Indian screw tree), *Holarrhena antidysenterica* (kurchi), *Zingiber officinale* (ginger) and *Myristica fragrans* (nutmeg) – and outlines a unifying mechanistic framework for their gut-protective actions in poultry.

1. Introduction

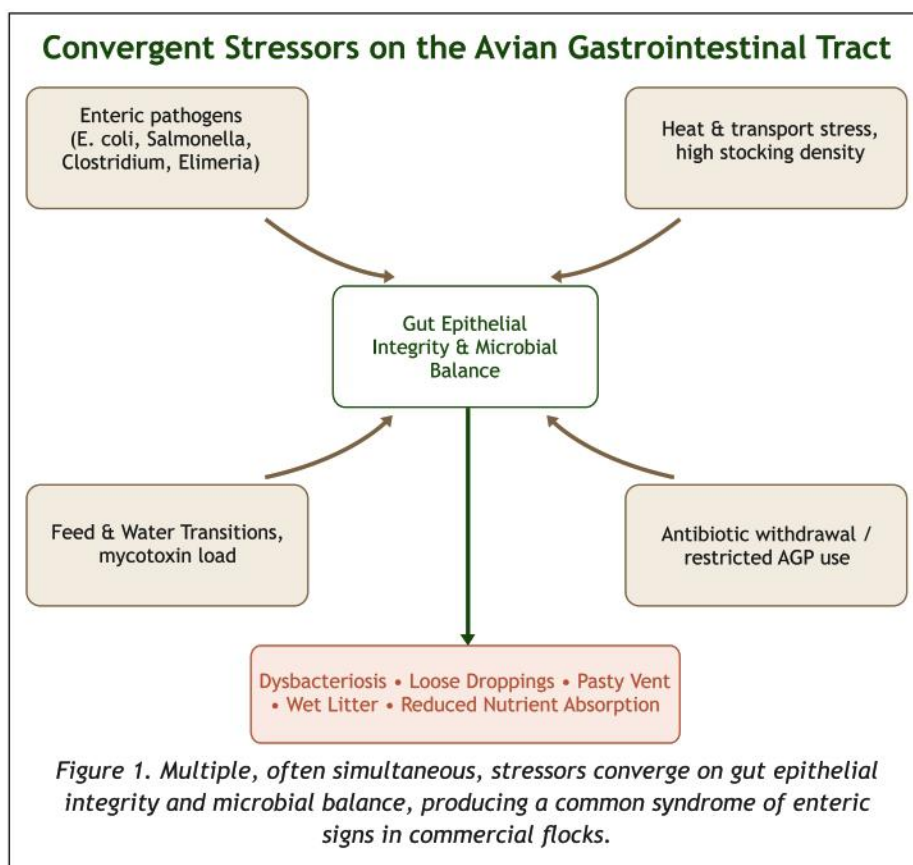
Enteric health disorders in broilers, layers and breeders arise from a convergence of infectious, nutritional and environmental stressors. Pathogenic bacteria such as *Escherichia coli*, *Salmonella* spp. and *Clostridium perfringens*, together with protozoal challenges from *Eimeria* species, disrupt the intestinal epithelium and its resident microbiota. These insults are compounded by abrupt feed or water changes, mycotoxin contamination, heat and transport stress, high stocking densities, and the progressive withdrawal of antibiotic growth promoters from commercial diets. The clinical consequence is a familiar cluster of signs to poultry veterinarians: loose or watery droppings, pasty vent, damp and ammoniacal litter, increased fly pressure, soiled eggs and reduced feed conversion efficiency.

Because these presentations frequently have mixed, non-specific aetiology, management strategies increasingly favour multi-target interventions rather than single-pathogen therapeutics. This has directed scientific attention toward standardised phytogenic blends – combinations of plant-derived bioactives selected for complementary pharmacological actions on gut motility, the mucosal barrier, and the resident microbial population.

2. The Phytogenic Rationale

Unlike single-target antimicrobials, whole-plant extracts and their standardised fractions typically contain

dozens of interacting secondary metabolites – alkaloids, flavonoids, tannins, terpenoids and essential-oil constituents – that act through multiple, complementary mechanisms simultaneously. This polypharmacological profile is consistent with the historical use of several of these botanicals in classical Ayurvedic anti-dysenteric formulations (e.g., Kutajarishta, Kutajghan Vati), where combinations rather than single herbs were the norm. Contemporary pharmacological studies have begun to validate the traditional rationale for several of these plants specifically in the context of gastrointestinal disorders.





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3. Botanical Constituents and Documented Actions

Table 1 summarises the principal phytoconstituents and the pharmacological actions reported for each of the five botanicals reviewed here, drawn from published pharmacognostic and pharmacological literature.

Common Name	Botanical Name	Key Phytoconstituents Documented	Pharmacological Actions
Bael	<i>Aegle marmelos</i>	Alkaloids, flavonoids, tannins, coumarins (marmelosin), terpenoids	Dose-dependent reduction of castor-oil-induced diarrhoea; inhibitory activity against <i>E. coli</i> , <i>Vibrio cholerae</i> and <i>Shigella flexneri</i> ; anti-inflammatory and gastroprotective effects
Indian Screw Tree	<i>Helicteres isora</i>	Polyphenols, tannins, alkaloids, neolignans (helicterins)	Traditionally used for diarrhoea and dysentery; extracts show measurable antibacterial inhibition zones and antioxidant (free-radical scavenging) activity
Kurchi	<i>Holarrhena antidysenterica</i>	Steroidal alkaloids (conessine and related bases)	Gut motility studies show a dual stimulant/relaxant action mediated via histamine-receptor activation and calcium channel blockade, supporting historical use for dysentery and colic
Ginger	<i>Zingiber officinale</i>	Gingerols, shogaols, zingibain (proteolytic enzyme)	Broiler trials link dietary inclusion to lower caecal microbial loads and improved feed conversion; zingibain supplementation improves nutrient digestibility and gut histomorphology
Nutmeg	<i>Myristica fragrans</i>	Myristicin, sabinene, terpineol, lignans	Essential-oil fractions show measurable antibacterial zones against <i>E. coli</i> and <i>S. aureus</i> and strong DPPH free-radical scavenging (antioxidant) capacity

Table 1. Summary of key phytoconstituents and documented pharmacological actions of five botanicals traditionally used for gastrointestinal support.

3.1 Aegle marmelos (Bael)

The unripe fruit of *A. marmelos* has long featured in Ayurvedic management of diarrhoea and dysentery. Ethanollic extracts have demonstrated a dose-dependent reduction in castor-oil-induced diarrhoea in experimental models, and aqueous fruit-pulp extracts have shown activity against *E. coli*, *Vibrio cholerae* and *Shigella flexneri*. Feeding trials in CARIBRO-Vishal broilers have also evaluated bael leaf powder without adverse effects on growth performance, alongside favourable shifts in immune and biochemical parameters.

3.2 Helicteres isora (Indian Screw Tree)

Traditionally used in the Indian System of Medicine for diarrhoea, dysentery and abdominal pain, *H. isora* fruit

and bark extracts are rich in polyphenols, tannins and alkaloids. In-vitro studies report measurable inhibition zones against *Staphylococcus aureus* using ethanollic extracts, alongside demonstrable free-radical scavenging activity, supporting its traditional classification as an anti-dysenteric and antidiarrhoeal agent.

3.3 Holarrhena antidysenterica (Kurchi)

Pharmacological work on hydro-ethanollic extracts of *H. antidysenterica* in isolated gut-tissue preparations indicates a dual action on intestinal smooth muscle – a histamine-receptor-mediated stimulant effect at lower concentrations and a calcium-channel-blockade-mediated relaxant effect at higher concentrations. This dual motility action provides a plausible mechanistic basis for its long-standing ethnobotanical use in both colic and diarrhoeal presentations.

3.4 Zingiber officinale (Ginger)

Ginger rhizome contains gingerols, shogaols and the proteolytic enzyme zingibain. Broiler studies have associated dietary ginger inclusion with reduced caecal microbial loads and improved feed conversion, while zingibain-specific supplementation trials report improvements in nutrient digestibility, immune parameters and gut histomorphology. Ginger's broader pharmacological literature consistently reports anti-inflammatory activity via suppression of pro-inflammatory cytokines, alongside carminative and antiemetic properties recognised across multiple traditional medicine systems.

3.5 Myristica fragrans (Nutmeg)

Nutmeg seed and its essential-oil fraction, rich in myristicin and terpenoids, show consistent in-vitro antibacterial activity against both Gram-positive organisms (*Staphylococcus aureus*) and Gram-negative organisms (*Escherichia coli*), together with strong DPPH free-radical scavenging capacity. These antioxidant and antimicrobial properties are reported to extend to poultry-relevant applications, including preservation studies on poultry meat itself.

4. Mechanistic Synthesis

Considered together, the pharmacological literature on these five botanicals points to four broadly complementary mechanisms operating on the poultry gut: direct antimicrobial and antidysenteric activity against enteric pathogens; modulation of gut smooth-muscle motility via calcium-channel and histaminergic pathways; suppression of inflammatory mediators coupled with antioxidant free-radical scavenging; and tannin-mediated astringent protection of damaged mucosal surfaces. Figure 2 illustrates how these mechanisms are proposed to converge on the clinical endpoints most relevant to flock management.

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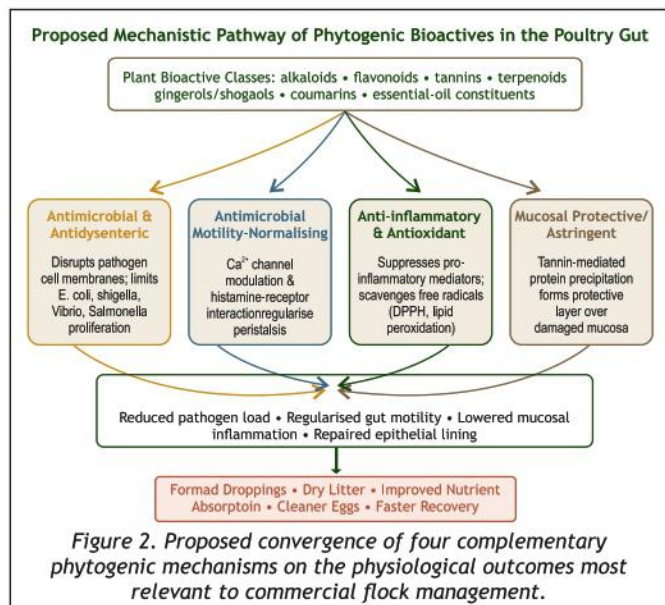
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5. Practical Implications for Flock Management

From a herd-health perspective, phytogetic blends built on this class of botanicals(Like **Vamdia Clearshot**) are positioned as adjunctive support during periods of gut-health challenge rather than as replacements for specific antimicrobial or anticoccidial therapy where indicated. Reported field-level benefits associated with this category of additive(**Vamdia Clearshot**) include improved litter quality and reduced fly pressure, lower incidence of pasty vent, cleaner egg surfaces in layer and breeder operations, and – when used alongside targeted veterinary treatment – a faster clinical recovery from enteric upset. Water-soluble formats are typically favoured for rapid, flock-wide delivery, with inclusion

rates commonly scaled to bird age and physiological stage, as illustrated in Table 2.

Rearing Phase	Typical Water-Soluble Inclusion	*Primary Objective	Duration
Starter	Low inclusion, e.g. 40–50 mL per 1000 birds/day	Gut priming and early microbial balance	5–7 days or as advised
Grower	Moderate inclusion, e.g. 150–200 mL per 1000 birds/day	Managing loose droppings during rapid growth	5–7 days or as advised
Finisher / Layer	Higher inclusion, e.g. 250–350 mL per 1000 birds/day	Supporting recovery and clean egg production	5–7 days or as advised by the attending veterinarian

Table 2. Representative inclusion pattern for water-soluble phytogetic gut-support formulations(**Vamdia Clearshot**) across production phases (illustrative; label directions and veterinary guidance should govern actual use).

6. Conclusion

The five botanicals reviewed here – bael, Indian screw tree, kurchi, ginger and nutmeg – each carry a substantial ethnomedicinal history in the management of diarrhoeal and dysenteric conditions, and a growing, if still uneven, body of in-vitro, in-vivo and poultry-specific pharmacological evidence lends mechanistic plausibility to this traditional use. Their complementary actions on pathogen load, gut motility, inflammation and mucosal integrity offer a rational, multi-target basis for phytogetic gut-health support in commercial poultry, particularly as an adjunct within reduced-antibiotic production systems. Controlled, peer-reviewed field trials in commercial flock settings remain the priority for further validating efficacy, optimal inclusion rates and consistency of standardised extract combinations.

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Breaking The Eimeria Cycle

An Integrated Strategy for Coccidiosis Control



Introduction

Coccidiosis remains one of the most important parasitic diseases affecting commercial poultry. The disease is caused by host-specific *Eimeria* species that multiply within intestinal epithelial cells, producing intestinal damage, impaired nutrient absorption, reduced growth and, in severe infections, mortality. Its economic impact is linked not only to clinical outbreaks but also to subclinical disease and reduced flock performance (Bera et al., 2010; Sharma et al., 2023; Pal et al., 2023).

Why it matters in modern poultry production

- Rapid multiplication of *Eimeria* can produce substantial intestinal injury within a short period.
- Subclinical coccidiosis may reduce feed efficiency, growth and flock uniformity without dramatic clinical signs.
- High oocyst contamination of litter increases exposure and repeated infection pressure.
- Effective control requires attention to parasite biology, farm management and appropriate anticoccidial programmes.

Etiology

Seven major *Eimeria* species are recognized in chickens. *E. acervulina* and *E. maxima* are frequently encountered, while *E. tenella* is particularly pathogenic and associated with severe caecal disease and haemorrhage (Yaqub et al., 2023). Species differ in preferred intestinal sites, lesion patterns and pathogenicity.

Transmission

The principal route is faecal-oral transmission. Birds ingest sporulated oocysts from contaminated litter, feed, water, equipment or the environment. Moisture, oxygen



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



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

and suitable temperature favour sporulation, allowing infective oocysts to accumulate and maintain the infection cycle (Pal et al., 2023).

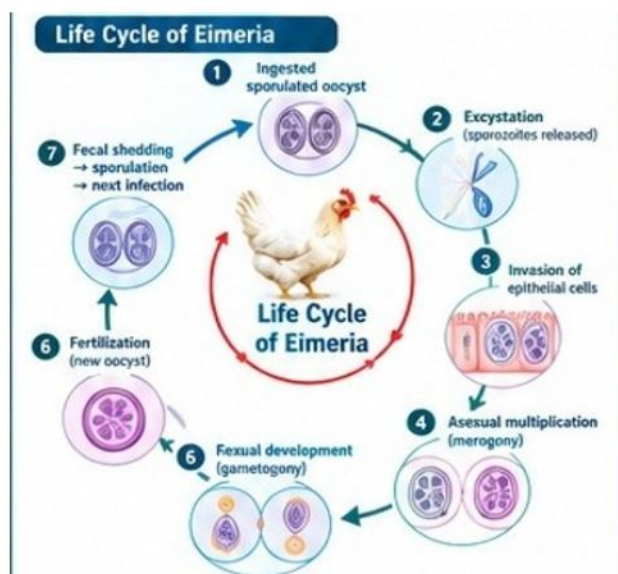
Life Cycle of Eimeria

Ingestion of sporulated oocysts → release of sporozoites → epithelial invasion → multiplication → gamete formation → oocyst formation → faecal shedding → environmental sporulation.

Clinical Signs

Severity depends on *Eimeria* species, infective dose, bird age, immunity and environmental management. Signs include reduced feed intake, depression, ruffled feathers, drooping wings, enteritis, diarrhoea or dysentery, poor growth and increased mortality in severe cases (Pal et al., 2023).

- Reduced body-weight gain and flock uniformity
- Poor feed conversion and production performance
- Diarrhoea or blood-stained droppings in severe infections
- Dehydration, weakness and depression
- Mortality when tissue damage and blood loss are extensive



E. acervulina
White intestinal streaks/plaques
(upper small intestine)



E. maxima
Thickened intestine with
mucoid/orange contents
(middle small intestine)



E. tenella
Hemorrhagic ceca
(severe coccidiosis)



E. necatrix
Congested, thickened intestine
(with hemorrhage)



Advanced Synergistic Dual Anticoccidial Shield



Species-specific sites

Species	Principal site / characteristic
<i>E. tenella</i>	Caeca; haemorrhage and caecal cores
<i>E. necatrix</i>	Proximal/mid small intestine; 'salt-and-pepper' appearance
<i>E. acervulina</i>	Upper small intestine; whitish patches
<i>E. maxima</i>	Small intestine; distension, thickening and mucus may occur

Post-mortem Lesions

Post-mortem examination helps identify likely *Eimeria* species and estimate the distribution and severity of intestinal damage. Lesion patterns should be interpreted with clinical findings, litter condition, performance data and, where appropriate, laboratory diagnosis (Pal et al., 2023; Yaqub et al., 2023).

Key lesion patterns

<i>Eimeria</i> species	Main lesion site	Typical field finding
<i>E. tenella</i>	Caeca	Severe haemorrhage, thickened caecal walls and cores
<i>E. necatrix</i>	Small intestine	Haemorrhage with pale/white foci; 'salt-and-pepper'
<i>E. acervulina</i>	Upper small intestine	Numerous whitish transverse/oval lesions
<i>E. maxima</i>	Middle/distal small intestine	Thickened/distended intestine with mucus

Prevention And Control

Effective control integrates anticoccidial programmes with litter management, hygiene, stocking-density control, ventilation and sound flock management. Continuous or inappropriate use of a single anticoccidial can contribute to reduced efficacy and resistance selection; rotation, shuttle programmes, combinations and vaccination are among approaches used for longer-term control (Usman et al., 2011; Chapman, 2017; Noack et al., 2019).

Anticoccidial programmes

Rotation changes the active ingredient or mode of action between production cycles.

Shuttle programmes use different anticoccidial strategies during different feed phases.

Combination programmes can broaden anticoccidial activity and may help address reduced sensitivity when appropriately designed (Chapman & Rathinam, 2022).

Vaccination can provide controlled exposure to selected *Eimeria* strains and support protective immunity.

Ionophore vs Chemical

IONOPHORES

- Alter ion transport across parasite membranes.
- Commonly used for prevention and control.
- Useful in rotation strategies.
- Examples: monensin, narasin, salinomycin, lasalocid.

Chemicals

- Act through diverse biochemical targets in *Eimeria*.
- Useful when a different mode of action is required.
- Fit rotation/shuttle approaches.
- Examples: nicarbazin, amprolium, diclazuril.

Combination programmes

Combining compatible anticoccidial activities can broaden control and reduce dependence on a single mode of action. Programme selection should consider disease pressure, previous anticoccidial history, susceptibility patterns, compatibility and label requirements (Chapman & Rathinam, 2022).

Stallen's Dual Approach To Coccidiosis Control

Stallen South Asia offers a dual approach to coccidiosis management with Manacox Plus, bringing together ionophore and chemical anticoccidial activity in one formulation. This approach is designed to support practical, structured coccidiosis-control programmes while reducing dependence on a single mode of action.

Manacox Plus

Manacox Plus is a dual-active anticoccidial formulation combining an ionophore and a chemical anticoccidial. It contains Monensin Sodium 8% + Nicarbazin 8% for practical coccidiosis prevention programmes in broilers.

Key Product Points

Composition	Monensin Sodium 80 g + Nicarbazin 80 g per kg; excipients q.s.
Indication	Prevention of coccidiosis in broilers and chickens reared for replacement of laying hens up to 16 weeks, caused by susceptible <i>Eimeria</i> species.
Dosage	500-600 g per ton of feed.
Withdrawal	1 day prior to slaughter.
Pack size	25 kg.

Why A Dual Approach

Using monensin sodium together with nicarbazin brings ionophore and chemical anticoccidial activity into one formulation. This can fit structured prevention programmes where the objective is effective control without unnecessary reliance on a single mode of action. Use should follow the approved label and veterinary guidance.

Practical use

Use within a planned farm coccidiosis-control programme.

Maintain good litter quality, ventilation, stocking density and drinker management.

Review anticoccidial history and flock response when planning future programmes.

Follow approved dose, withdrawal period and compatibility instructions.

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Legend SERIES 35

(Posthumous)

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

1. Was he originally from Jabalpur?

His father hailed from Kuttch, Gujrat and settled in Jabalpur around 1920. Dr. Vegad was born in Jabalpur.

2. What was the best thing he liked in his journey?

His profession was his passion. He loved Veterinary Pathology. Other than that we used to relish old Hindi songs and movies.

3. What was the right motivation he liked in the journey?

His training in New Zealand was crucial. Discipline was his mantra for life. Punctuality defined him.

4. Why he choose the Poultry / Livestock profession?

After retirement he joined poultry industry and got involved with it.

5. As compared to others in the industry, how he felt is he was different?

He was always in learning mode. Learning latest things and development in his subject never ended in his life.

6. Please tell us about his family.

Lived in a joint family of 20 people. He had a son and daughter. Daughter married in Chennai and has a daughter. Son lived with him, and has a son. His wife is now 79 years old.

7. What he thought about his contributions to be leading in poultry industry?

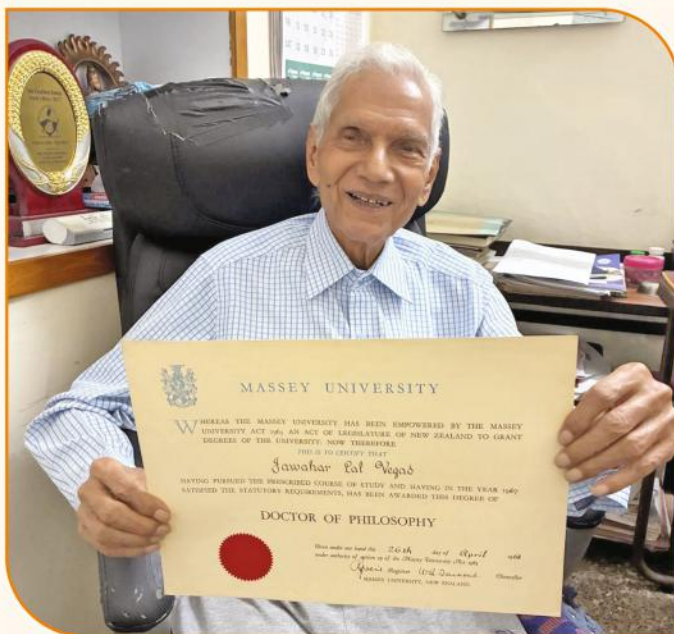
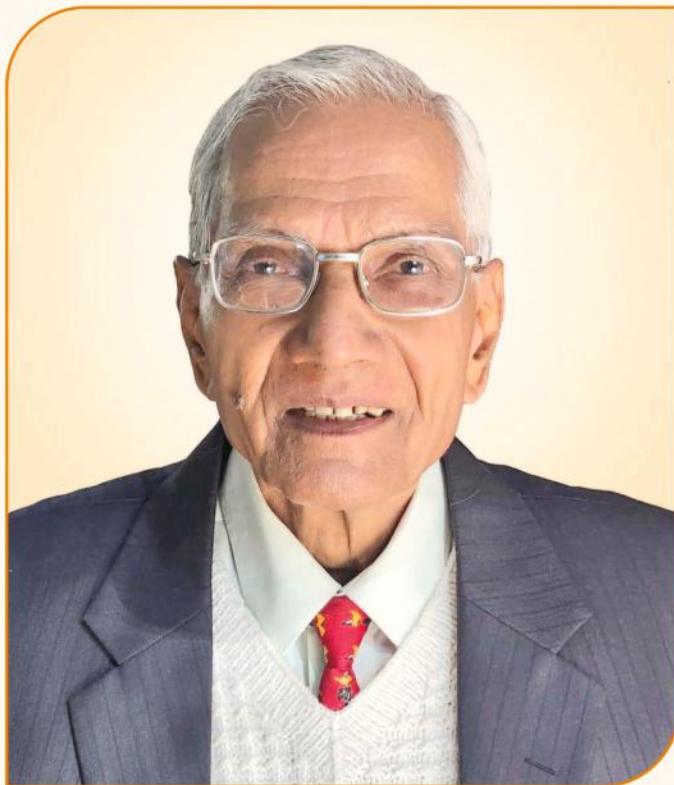
He was always in demand for giving talks around the country regarding the poultry disease. Many pharmaceutical companies used to arrange his lectures for poultry farmers.

8. What was his dream to the next generation entered in this business?

He wanted latest technology to be used in the industry. He probably wanted that new generation should be technically very sound.

9. What was his favourite eatery food?

Home cooked food - home made sweets.



10. What were his hobbies?

listening to old Hindi songs. Lata Mangeshkar was his favourite singer.

11. Any point would you like to add?

He was very much attached to his New Zealand memories. He considered NZ like a second home.



Host by:

Dr. Ramesh Sikka

Founder Member

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PVS Premium League Season 2

Concludes with Great Enthusiasm and Team Spirit

PVS Group India successfully conducted the PPL (PVS Premium League - Season 2), creating two days of tremendous energy, enthusiasm, teamwork, and sporting spirit among employees.

The grand event witnessed the participation of **8 teams**, with **15 players in each team**, bringing together a total of **140 employees** from across the PVS Group family. The participating teams were:

- Layer Legends
- Camel Kings
- Broiler Kings
- Fish Masters
- Pet Panthers
- Swine Warriors
- Cattle Chargers
- Vanammei Strikers

The league was conducted with great excitement and healthy competition, providing employees with an opportunity to come together, showcase their sporting talents, and strengthen their relationships beyond their routine workplace environment.

Addressing the event, **Company Executive Director Mr. Arun Pamulapati** highlighted the importance of organizing such activities to strengthen **team spirit and collaboration among colleagues**. He emphasized that sports help employees develop important professional qualities such as **strategic planning, working towards a common goal, effective planning and execution, risk management, decision-making, coordination, leadership, and motivation**. He encouraged employees to carry these qualities into their day-to-day professional responsibilities and use them to achieve organizational goals.

The much-awaited final match was played between **Layer Legends** and **Pet Panthers**. After an exciting and competitive contest, **Layer Legends emerged victorious** and were crowned the champions of PVS Premium League Season 2.

Addressing the players and employees, **Chairman & Managing Director Dr. Sessaiah V. Pamulapati**

appreciated the enthusiasm and participation of all the teams. He encouraged everyone to maintain **team spirit, discipline, unity, and a healthy approach** not only in sporting activities but also in every aspect of life. He congratulated the winning team, **Layer Legends**, and appreciated all the participants for making the event a grand success.

The two-day celebration was filled with **enthusiasm, energy, camaraderie, and joy**, with employees actively supporting their teams and enjoying every moment of the competition. The event once again demonstrated the strong sense of unity and togetherness within the PVS Group family.

PVS Premium League Season 2 concluded on a memorable note, leaving everyone with valuable lessons in teamwork, discipline, strategic thinking, healthy competition, and collective achievement.



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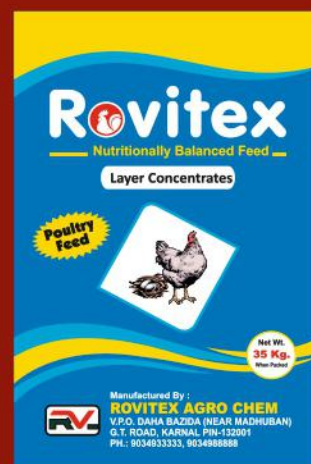
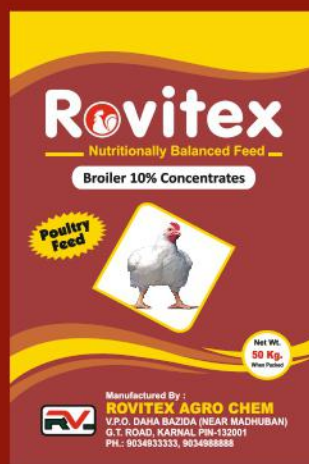
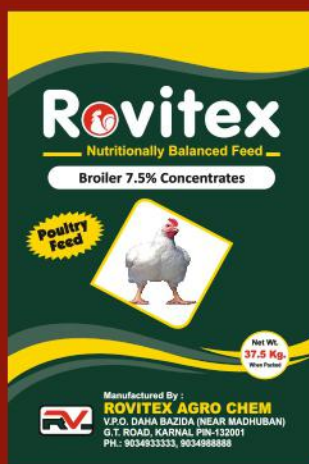
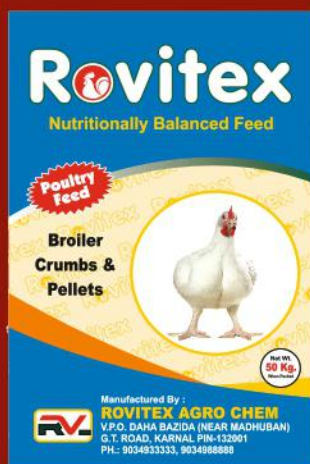
- ❖ Broiler 10% Concentrates
- ❖ Broiler 7.5% Concentrates
- ❖ Broiler 5.5% Concentrates
- ❖ Broiler 3.5% Concentrates
- ❖ Broiler 2.5% Concentrates
- ❖ Broiler 1.5% Concentrates

Layer Concentrates:

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- ❖ Layer 10% Concentrates
- ❖ Layer 25% Concentrates
- ❖ Layer 35% Concentrates

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The Indian Federation of Animal Health Companies (INFAH) honoured **Dr. Ramesh Sikka**, a distinguished animal healthcare professional and veteran of the veterinary industry, with the prestigious **INFAH Award** in recognition of his exemplary and sustained contribution to the animal health industry.

With a career spanning more than four decades, Dr. Sikka has played an influential role in advancing animal health, strengthening the veterinary profession and contributing to the development of the animal healthcare sector in India and beyond.

A graduate in **Veterinary Sciences & Animal Husbandry (B.V.Sc. & A.H.)** from the **College of Veterinary Science, Ranchi**, Dr. Sikka began his professional journey in 1978 as a Veterinary Representative with Sarabhai Chemicals. His exceptional professional capabilities were recognised early in his career when he achieved the **All-India No. 1 position in Sales Performance** during his first year. During this phase, he also contributed to obtaining feed supplement approval for **Live Appu**, the elephant mascot of the **1982 Asian Games**.

Over the course of his distinguished career, Dr. Sikka has held several important leadership positions with leading multinational and joint-venture organisations, including **Intervet (later MSD Animal Health)**, **Novus International** and **Curewel India**. During his 21-year association with Intervet, he progressed through various leadership roles, rising from **Manager, Veterinary Operations**, to **Vice President and Business Head**, and subsequently serving as **Chief Representative in Sri Lanka** and **General Manager, International Business**.

Beyond his corporate responsibilities, Dr. Sikka has consistently worked towards strengthening the veterinary profession and expanding professional networks across South Asia. His initiatives have included the development of the **Digital Sri Lankan Veterinarians Guide**, compilation of the **Sri Lankan Poultry Handbook**, and promotion of awareness initiatives concerning critical animal health challenges, including **Avian Influenza**.



Dr. Sikka's professional journey has also been marked by a strong commitment to continuous learning and knowledge development. He has undertaken advanced executive training at prestigious institutions, including **XLRI and IIM Ahmedabad**. His contribution to veterinary communication and professional development includes initiatives such as the **All India Veterinarian Guide (1997)** and the *Flying with Heroes* series, along with other publications and projects aimed at highlighting the importance and contribution of the veterinary profession.

His association with the veterinary community extends beyond the corporate sector. Dr. Sikka has served as **Vice President of the Vets Club of Greater Delhi and the Vets Club of Calcutta** and has been associated with several professional societies connected with animal nutrition, medicine and surgery.

A strong advocate of knowledge sharing and professional outreach, Dr. Sikka has also contributed to veterinary awareness through mass media. His appearances on **Doordarshan** and programmes such as *You & Your Pets* helped bring animal health and veterinary subjects to a wider audience.

His contribution to the profession has been recognised through several honours, including the **Vijayashree Award, Bharat Excellence Award and Gold Medal**, along with recognition from the **Sri Lanka Veterinary Association and AIPIA**.

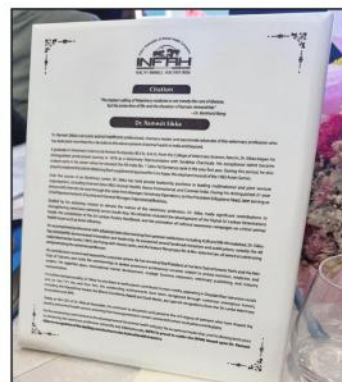
Today, through **Dr. Sikka & Associates**, he continues to contribute to the animal health sector and document the legacy of pioneers who have helped shape India's poultry and animal healthcare industries. His work reflects a lifelong commitment to professional excellence, knowledge sharing and the advancement of veterinary and animal health services.

The **INFAH Award** recognises not only Dr. Sikka's extensive professional achievements but also his enduring commitment to the veterinary profession and the wider animal health industry. His career stands as an example of how professional expertise, leadership and a commitment to serving the industry can create a lasting impact.

A Legacy of Leadership and Service

Dr. Ramesh Sikka's recognition by INFAH represents a celebration of a career dedicated to **animal health, veterinary advancement and industry development**. His four-decade journey, marked by leadership across corporate, professional and knowledge-sharing platforms, has made him a respected figure in the animal healthcare community.

The INFAH Award therefore stands as a fitting recognition of his **exemplary contribution to the Animal Health Industry** and his continued commitment to the veterinary profession.



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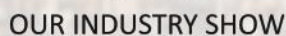
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Alivira Animal Health Marks Successful Launch of Celtimin F

A Natural Marine Mineral Solution for Stronger Shells and Longer-Laying Flocks



ALIVIRA

Mumbai, India — Alivira Animal Health Limited has officially launched Celtimin F, a natural marine-mineral feed additive developed to improve eggshell strength, extend the laying period and support overall flock health in layers and breeders. The launch was marked with an internal celebration at Alivira's Mumbai office, where senior leaders and the nutrition team gathered to unveil the product alongside its first 25 kg commercial bag.

A Natural Answer to an Age-Old Challenge

Eggshell quality and calcium metabolism remain persistent challenges for layer farms, particularly as hens age and their ability to absorb calcium declines. Celtimin F addresses this with a 100% natural marine mineral complex derived from *Lithothamnium calcareum*, a calcareous red seaweed harvested under licence off the coast of Iceland and processed by Celtic Sea Minerals in County Cork, Ireland a heritage the brand describes as “pioneering marine minerals since 1992.”

Unlike conventional limestone-based calcium sources, which dissolve rapidly and can flood the gut with more calcium than a hen can absorb at once, Celtimin's unique triple-layer structure an outer calcified layer, a polysaccharide hydrogel, and an inner calcified core

releases calcium in stages. This gives hens fast initial availability after feeding, followed by a sustained release through the day and overnight, precisely when shell formation is most actively in process.

Backed by Research and Field Trials

The product's benefits are supported by trial data referenced in Alivira's technical literature:

- In a 448-hen commercial trial using Hy-Line Brown genetics, low doses of the marine mineral complex increased first-grade (saleable) eggs by up to 1.3% and improved shell breaking strength by 5-8%.
- Research published by Demehin, Higgins, Bouwhuis, and O'Connell (2026) in Biocatalysis and Agricultural Biotechnology found that replacing limestone with the marine mineral complex improved digestible phytate-phosphorus release by 17-26%, pointing to reduced reliance on inorganic phosphorus supplementation.
- Commercial trials in the Philippines showed higher blood and bone calcium levels and greater eggshell thickness in birds fed 0.3% Celtimin compared to controls.
- A UK commercial trial (2022) recorded improved laying percentage in older flocks (82-88 weeks) versus the control group.

Beyond shell quality, the product is positioned to support bone integrity and joint health, reduce lameness and cage layer fatigue and improve litter quality through fewer dirty eggs benefits attributed to its 72 trace minerals, including calcium, magnesium and strontium.

With this launch, Alivira Animal Health in partnership with Celtic Sea Minerals adds a science-backed, sustainably sourced tool to its animal health portfolio aimed at helping poultry producers get more first-grade eggs, stronger shells and longer-performing flocks from a single natural ingredient.



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ALIVIRA

Celtimin F

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**100% NATURAL
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PRODUCTION & QUALITY**



**SUPPORTS HEALTH
& PERFORMANCE**

INDICATIONS

- Increase laying percentage
- Improve shell strength
- Stronger bones, healthy joints & better bone integrity
- Extending the laying cycle
- Fewer dirty eggs, better litter quality

USAGE

Layers & Breeders: 2 - 3 kg per
MT of finished feed or as advised by
a Nutritionist

PACKAGING

25 kg



Alivira Animal Health Limited

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Customer care no.: +91 22 4111 4777, Email ID: info@alivira.in

Carus Laboratories Pvt. Ltd.

Empowering Layer Farmers Through Knowledge, Innovation & Technical Excellence



Layer Farmers Meet In Karnal

Carus Laboratories Pvt. Ltd. successfully hosted a **Layer Farmers Meeting** at Yellow Sapphire, Karnal, bringing together **42-layer farmers** for an engaging evening focused on **scientific layer management, technical knowledge, and innovative poultry solutions.**

The meeting served as a valuable platform for **farmer-expert interaction, knowledge exchange, and discussion** on the evolving needs of modern layer farming.

Distinguished Presence

The event was graced by:

Mr. Subhash Narwal
President, Central Haryana Poultry Farmers Association, Karnal

Mr. Surinder Bhutani
Secretary, Central Haryana Poultry Farmers Association

Mr. Ravi Sabharwal
MD, Time Research & Breeding Farm
Chairman, Broiler Breeder Association North
Their presence added significance to the occasion and contributed to a warm, engaging, and memorable evening for the participating farmers.

Company Insight

Strengthening Farmers Through Innovation

Mr. Madhur Sharma, General Manager, Carus Laboratories Pvt. Ltd., addressed the gathering and shared insights into the company's **facilities, capabilities, and commitment to innovation.**



He highlighted Carus Laboratories continued focus on developing **quality-driven and farmer-focused solutions** to address the changing requirements of the poultry industry.

Technical Spotlight

Targeted Body Weight In Layers A Key Foundation for Optimum Flock Performance

Dr. Dhruval Bhatt, Senior Technical Manager, delivered an insightful technical session on the importance of **targeted body weight** in layers.

He emphasized the significance of achieving and maintaining appropriate body weight throughout different stages of the production cycle to support:

Flock Uniformity Productive Performance Persistency Farm Profitability

The practical session provided farmers with valuable insights into the importance of effective body-weight management for consistent flock performance.

Innovation Spotlight

Betaspik[™]

New Age Immunomodulator For Poultry

A key highlight of the meeting was the presentation by **Dr. Sumit Chauhan, Senior Product Manager,** who showcased the innovative solutions of Carus Laboratories Pvt. Ltd., with special focus on the company's new innovation:

Betaspik[™] - New Age Immunomodulator for Poultry

The session highlighted the importance of **innovative immunity-support solutions in modern poultry production** and provided farmers with an opportunity to understand contemporary approaches to addressing challenges in layer farming.

The successful event reaffirmed Carus Laboratories Pvt. Ltd.'s commitment to **empowering poultry farmers through knowledge, technical expertise, and innovation.** The company continues to focus on delivering progressive solutions aimed at supporting **better flock performance, farm efficiency, and sustainable profitability.**

Carus Laboratories Pvt. Ltd. remains committed to strengthening its partnership with the poultry farming community and contributing to the continued advancement of the Indian poultry industry.



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- Nutrena 1% Layer Concentrate with inclusion rate 10 kg / Ton of complete feed.

Broiler Breeder Super Concentrate

- Nutrena 1% Breeder Concentrate.

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Mr. Dhiraj Choudhry-99914-11111, Mr. Madan Choudhry - 99913-11111

IPEMA-Poultry India Supports First Poultry Conclave 2026 in Gorakhpur



IPEMA-Poultry India proudly participated in and supported the First Poultry Conclave - Gorakhpur 2026, held on 23 August 2026 at Baba Gambhirnath Auditorium, Taramandal, Gorakhpur, bringing together farmers, poultry entrepreneurs, veterinarians, scientists, government officials, industry leaders and other stakeholders to deliberate on the future of the poultry sector in eastern Uttar Pradesh.



Representing IPEMA-Poultry India, President Mr. Uday Singh Bayas participated as a speaker and shared his insights on strengthening the poultry sector through greater collaboration, scientific practices, modern technology and knowledge sharing. He emphasized the significant role of poultry in nutritional security, particularly access to quality protein, rural employment and farmers' income generation, while highlighting the need to build stronger linkages between farmers, industry, government, academia and other stakeholders.

Speaking at the conclave, Mr. Uday Singh Bayas highlighted the immense potential of poultry as an agriculture-based industry and stressed that its sustainable growth requires continued focus on scientific management, biosecurity, disease prevention, quality production, efficient marketing and adoption of modern technologies. He also underscored the importance of empowering small and medium poultry farmers with access to technical knowledge, training and timely expert guidance.

The conclave was inaugurated in the presence of Dr. Dharmendra Singh, Hon'ble Member of the Legislative Council and State Vice President, BJP, with Shri Mahendra Pal Singh, Hon'ble MLA, Pipraich, and Shri Pradeep Shukla, Hon'ble MLA, Sahjanwa, as Special Guests. Shri Mukesh Meshram, IAS, Additional Chief Secretary, Department of Animal Husbandry and Dairy, Government of Uttar Pradesh, also graced the event and shared perspectives

on government initiatives and the future development of the animal husbandry and poultry sectors.

The event featured extensive deliberations on poultry development, protein and nutritional security, modern technology, scientific poultry farming, biosecurity, disease control, quality production, investment, employment generation and increasing farmers' incomes. Leading experts and industry representatives, including Shri Suresh Chitturi, Dr. Shreeesh Nigam, Dr. Neeraj Srivastava, Shri O.P. Singh, Dr. Santosh Ere, Dr. Jitendra Verma, Dr. Sharad Singh, Shri V.P. Singh and Shri Raju Singh, among others, shared their expertise and experiences.

The conclave highlighted the immense potential of Gorakhpur and eastern Uttar Pradesh to emerge as a significant poultry production hub, driven by growing demand for quality protein, market opportunities and the entrepreneurial potential of rural youth. Participants emphasized that stronger coordination between farmers, entrepreneurs, veterinarians, scientists, government departments and industry will be crucial to unlocking this potential.

IPEMA-Poultry India's participation reflects its continued commitment to knowledge sharing, industry collaboration and strengthening the poultry ecosystem at the grassroots level. The association reiterated the importance of collective efforts to promote a healthier, more productive and sustainable poultry sector.

The First Poultry Conclave - Gorakhpur 2026 concluded with a shared commitment to advancing modern and scientific poultry production, improving farmers' incomes, creating employment opportunities and strengthening nutritional security across the region.

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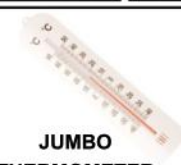
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Ventri Biologicals

Organizes Technical Meeting on Advanced Hatchery Vaccination and Broiler Performance



Ventri Biologicals organized a technical meeting at Hotel Noor Mahal, Karnal, on 5th August 2026, bringing together poultry professionals to discuss modern approaches to hatchery vaccination, water sanitation, and precise medication practices.

The meeting commenced with an introductory address by **Mr. Deepak Khosla, General Manager (Marketing)**, who welcomed the participants and highlighted the company's commitment to delivering science-based solutions for the poultry industry.

Dr. Prakash Reddy, DGM (Technical), delivered a currently relevant and focused presentation on **"Hatchery Vaccines and Vaccination: Catching the Future"**. He emphasized on the emergence of pathogens which are critical for designing effective control strategies because it reveals key vulnerabilities, transmission dynamics (vertical), and potential immune evasion mechanisms. Highlighted the emerging vaccine technologies opening new fields of possibilities for disease control and disease management, which include genotype based vaccines, vector vaccines, immune complex vaccine etc. The novel vaccine technologies would likely impose completely novel immune pressure or selection for resistance with enhanced immunosuppression and changes in patterns of antigenic variation, tissue tropism, and invasion pathways, so

should be selective. Lastly, he updated the Innovative hatchery vaccination methods adapted in India for mass administration with speed and accuracy with ease of adaptation of semi-automated subcutaneous vaccination, spray vaccination etc. in day old chicks with a check on vaccinal reactions, errors and miss outs.

The second session, **"Improving Broiler Performance through Effective Water Sanitation and Precise Medication Dosing,"** was presented by **Dr. Datta Kulkarni, DGM (Technical)**. He discussed how good water quality, effective sanitation, and accurate medication dosing can help enhance broiler health, performance, and farm profitability.

The programme concluded with valuable remarks from **Mr. H. S. Padda, DGM, (Marketing)**, who underlined the importance of adopting scientific and practical approaches to address emerging poultry health challenges. **Mr. Shashi Bhushan, AGM, (Marketing)**, delivered the vote of thanks and expressed gratitude to the speakers and participants for making the meeting informative and successful.

The technical meeting reaffirmed Ventri Biologicals' commitment to advancing poultry health through knowledge sharing, innovation, and effective field-level solutions.



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INFAH's 15th AGM Outlines Vision for an Innovative and Healthier Animal Health Ecosystem

Key stakeholders call for an AI-enabled, prevention-first strategy to safeguard food security, elevate farmer incomes, and drive rural growth under Viksit Bharat.



India's next major surge in livestock productivity will be driven by proactive animal wellness and tech-driven care rather than merely expanding herd sizes. This strategic pivot formed the central theme of the 15th AGM of the Indian Federation of Animal Health Companies (INFAH), held at the Taj Lands End, Mumbai.

Bringing together policymakers, regulatory officials, veterinary scientists, and corporate leaders, the assembly charted a roadmap to transform India's reactive animal healthcare model into a predictive, science-led ecosystem. INFAH, which represents approximately 85% of India's veterinary biologics, pharmaceuticals, and feed supplements market, positioned preventive healthcare as a vital driver for national nutritional security and rural economic resilience.

Shifting from Reaction to Prediction

Delivering the keynote address, Burjis Godrej, Chairperson of Godrej Agrovet, emphasized that sustainable livestock growth hinges on optimizing animal health, nutrition, and welfare. He urged industry leaders and institutions to accelerate investments in diagnostics, vaccination, and biosecurity infrastructure.

Complementing this focus, regulatory and public health officials outlined steps toward proactive disease defense:

- **Streamlined Regulation:** Dr. Rubina Bose, Deputy Drugs Controller (India) at CDSCO, advocated for agile regulatory structures that maintain safety and quality standards while encouraging sectoral innovation.

- **Enhanced Biosecurity:** Dr. Naveen Kumar, Director of ICMR-National Institute of Virology (NIV), Pune, underscored the critical need for advanced surveillance, biotechnology, and vaccine development to mitigate emerging zoonotic threats.

Artificial Intelligence Transforms Farm Management

The integration of digital advisory systems and predictive technology emerged as a key operational disrupter during the proceedings.

Amit Vyas, Managing Director of Amul Dairy, demonstrated how technology-enabled veterinary services directly enhance milk yield and farmer profitability. Additionally, Hareesh Tibrewala, Founder and CEO of Manabu AI Solutions, showcased practical applications of computer vision, predictive analytics, and digital traceability across the dairy, poultry, aquaculture, and companion animal segments.

15 Years of Sectoral Advocacy and Leadership

Marking 15 years since its inception, INFAH reaffirmed its evolution from a trade association into a proactive platform for national policy advocacy. Organization leadership highlighted a refreshed commitment to member-centric outcomes, aiming to turn shared industry challenges into structured policy engagements.

To celebrate the milestone, INFAH presented its annual industry awards to two distinguished veterans for their lifelong contributions to animal healthcare:

- **Dr. Ramesh C. Sikka**
- **Dr. Raghuvir Krishnarao Trifale**

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Six Core Priorities for Sectoral Growth

To guide its mission of *"Healthy Animals, Healthier India,"* INFAH formally outlined six key strategic objectives:

1. **Preventive Healthcare & Biosecurity:** Strengthening early defense systems against critical animal diseases.
2. **Predictable Regulation:** Collaborating with regulatory bodies to foster innovation-friendly frameworks.
3. **AI & Digital Integration:** Accelerating farm-level adoption of predictive analytics and automated diagnostic tools.
4. **Farmer Prosperity:** Boosting livestock yields and farm profitability through precision nutrition and disease management.

5. **Nutritional Security:** Linking improved animal wellness directly to national food safety and nutrition.
6. **Ecosystem Collaboration:** Deepening institutional partnerships among government entities, private industry, and academic researchers.

About INFAH

The Indian Federation of Animal Health Companies (INFAH) is the apex body representing India's animal health industry. Encompassing producers of veterinary pharmaceuticals, biologics, and feed supplements, INFAH collaborates with regulatory agencies, government authorities, and research institutions to drive science-based policies, sustainable growth, and animal welfare across India.

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Northern Region

COMPANY: Sampoorna Feeds FARMER NAME: Mr. Chamkaur Singh	AUG-2026	Top #1
	Farm Type	Open House
	State	PUNJAB
	Chicks Placed	5,332
	Mean Age	33
	Avg Body Wt	2,596
	FCR	1.31
	cFCR	1.17
	Livability%	97
	Daily Gain	77.8
	EPEF	576



Eastern Region

COMPANY: IB Group FARM NAME: Mrs. Kadambini Senapati	AUG-2026	Top #1
	Farm Type	Closed House
	State	ORISSA
	Chicks Placed	6,460
	Mean Age	38
	Avg Body Wt	2,876
	FCR	1.56
	cFCR	1.36
	Livability%	96.7
	Daily Gain	75.7
	EPEF	469



Central Region

COMPANY: IB Group FARMER NAME: Mr. Sameer Sharma	AUG-2026	Top #1
	Farm Type	Closed House
	State	MADHYAPRADESH
	Chicks Placed	17,161
	Mean Age	42
	Avg Body Wt	3,288
	FCR	1.52
	cFCR	1.23
	Livability%	95.7
	Daily Gain	78.3
	EPEF	492



South Region

COMPANY: IB Group FARMER NAME: V.Satyanarayana Y	AUG-2026	Top #1
	Farm Type	Closed House
	State	ANDHRA PRADESH
	Chicks Placed	19,306
	Mean Age	36
	Avg Body Wt	2,621
	FCR	1.48
	cFCR	1.35
	Livability%	95.3
	Daily Gain	72.8
	EPEF	466



August 2026 -Top PERFORMANCE BY AREA

Area	Chicks Placed	Mean Age(Days)	BW	FCR	cFCR(2Kg)	Livability%	Daygain	EPEF
North Closed House	11,908	34	2,612	1.33	1.19	97.2	76.4	558
North Open House	5,332	33	2,596	1.31	1.18	97.0	77.8	576
East Closed House	6,460	38	2,876	1.56	1.37	96.7	75.7	469
East Open House	1,407	40	2,687	1.42	1.27	98.2	67.2	463
Central Closed House	17,161	42	3,288	1.52	1.24	95.7	78.3	492
Central Open House	6,591	31	2,242	1.41	1.36	95.3	70.3	476
South Closed House	19,306	36	2,621	1.49	1.35	95.3	72.8	466
South Open House	5,881	42	2,856	1.56	1.37	95.2	68	416

August 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	5,332	33	2,596	1.31	1.18	97.0	77.8	576
Flock 2	CLOSED HOUSE	PUNJAB	11,908	34	2,612	1.33	1.19	97.2	76.4	558
Flock 3	OPEN HOUSE	PUNJAB	11,632	35	2,652	1.37	1.23	95.7	75.8	529
Flock 4	OPEN HOUSE	PUNJAB	11,944	33	2,373	1.33	1.25	97.1	71.3	520
Flock 5	OPEN HOUSE	PUNJAB	15,606	34	2,564	1.38	1.25	95.7	75.0	520
Flock 6	OPEN HOUSE	PUNJAB	8,080	33	2,306	1.32	1.25	97.0	70.2	516
Flock 7	OPEN HOUSE	PUNJAB	11,140	33	2,326	1.31	1.24	97.1	69.6	516
Flock 8	OPEN HOUSE	PUNJAB	13,461	33	2,380	1.34	1.26	96.5	71.5	514
Flock 9	OPEN HOUSE	PUNJAB	11,020	34	2,500	1.36	1.25	96.2	72.7	514
Flock 10	OPEN HOUSE	HARYANA	10,160	33	2,370	1.35	1.27	96.5	71.8	513

GLAMAC International Hosts

Panbonis® Technical Seminar Series Across India and Nepal *"Vitamin D3 Metabolism – Beat the Science with Panbonis®"*



GLAMAC International, a leading poultry nutrition company from India, successfully concluded a series of technical seminars focused on the science and practical importance of Vitamin D3 metabolism in modern poultry production.

Held under the theme **"Vitamin D3 Metabolism - Beat the Science with Panbonis®"**, the seminar series brought together leading poultry consultants, practising veterinarians, broiler, layer and breeder farmers, feed millers, nutritionists and other industry professionals.

The seminars were conducted at:

- **3 September 2026** - Hotel Avasa, Hyderabad, India
- **5 September 2026** - Hotel Golden Palace, Namakkal, India
- **9 September 2026** - Radisson Hotel Kathmandu, Nepal

The programs provided a platform for poultry professionals to gain deeper insights into the evolving nutritional challenges associated with modern high-performing poultry breeds and the role of advanced Vitamin D3 metabolism in addressing these challenges.

Vitamin D3 Metabolism - A Critical Factor in Modern Layer Production

Dr. Sumon Nag Chowdhury, Deputy General Manager - Technical & Sales, GLAMAC International, highlighted how the genetic advancement of modern layer birds has significantly influenced their nutritional requirements.

Today's layer breeds are developed for **higher production, greater persistency and extended laying cycles beyond 100 weeks**. With this remarkable genetic potential, efficient Vitamin D3 metabolism becomes increasingly important for maintaining **production**

performance, eggshell quality, skeletal integrity and overall bird health throughout the laying cycle.

Dr. Chowdhury explained the science and concept behind **Panbonis®** - **born by research, protected by patents**, an innovative solution from **Herbonis, Switzerland**. He highlighted how the biological activity of Panbonis® goes beyond simply supplying conventional Vitamin D3, offering a scientifically differentiated approach to Vitamin D metabolism in poultry.

Research-Driven Innovation from Herbonis, Switzerland

A major highlight of the seminar series was the presentation by **Ms. Katia Pedrosa, Global Product Manager, Innovad Group**, who shared extensive research findings, scientific studies and field trial results related to Panbonis®.

Through scientific evidence and practical trial data, Ms. Pedrosa presented the unique mode of action and demonstrated benefits of Panbonis®, particularly in relation to **calcium metabolism, eggshell quality, skeletal health, production performance and the nutritional demands of extended laying cycles**.

Her presentation generated considerable interest among participants, with engaging discussions on the application of advanced Vitamin D metabolism in modern poultry production and the potential role of Panbonis® in supporting long-term flock performance.

GLAMAC: Innovation & Excellence for Sustainable Poultry Production

Speaking at the Kathmandu event, **Mr. Abir Mukherjee, Managing Director, GLAMAC International**, emphasized the company's commitment to **"Innovation & Excellence"** and its objective of bringing scientifically backed and sustainable solutions to the poultry industry.

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• Dr. Sumon Nag Chowdhury: +91 9051512590

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He highlighted the importance of continuously adapting nutritional strategies to meet the changing requirements of modern poultry genetics and production systems, while emphasizing the role of science, innovation and knowledge sharing in advancing poultry production.

Strong Industry Interaction and Knowledge Sharing

The seminars witnessed active participation from poultry professionals across the respective regions. The interactive sessions generated numerous technical questions and discussions between the speakers and participants, covering Vitamin D3 metabolism, calcium utilization, skeletal integrity, eggshell quality, extended laying cycles and the practical application of Panbonis®.

The events served as an effective knowledge-sharing platform, bringing together scientific research, field experience and practical challenges faced by the poultry industry.

The sessions concluded with **cocktail dinners and informal interactions**, providing participants with an opportunity to continue technical discussions, exchange experiences and strengthen professional relationships.

The GLAMAC team expressed its sincere appreciation to all the consultants, veterinarians, farmers, feed millers, nutritionists and industry associates who participated and contributed to the success of the seminar series.

With the encouraging response received across all three locations, **GLAMAC International** looks forward to continuing its efforts to bring science-driven technical knowledge and innovative nutritional solutions to the poultry industry through more such programs in the future.

GLAMAC International

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First Poultry Conclave Held Successfully in Gorakhpur

Experts Call for Scientific, Technology-Driven Development of Poultry Sector in Eastern Uttar Pradesh Focus on Protein Security, Farmers' Income, Employment Generation, Modern Technology and Biosecurity



The First Poultry Conclave, Gorakhpur, was successfully organized on August 23, 2026, at Baba Gambhir Nath Prekshagrih, Tara Mandal Road, Gorakhpur, with the objective of providing a new direction to the development of the poultry sector in eastern Uttar Pradesh and bringing farmers, entrepreneurs, veterinarians, scientists, industry representatives, policymakers and government officials onto a common platform.

The one-day conclave witnessed extensive deliberations on the present status and future prospects of the poultry sector, the importance of eggs and chicken as sources of high-quality protein, particularly for women and children, modern poultry technologies, scientific farm management, biosecurity, disease prevention and control, quality production, marketing, investment, employment generation and increasing farmers' income.

The inaugural session was attended by Chief Guest Dr. Dharmendra Singh, Hon'ble Member of the Legislative Council and State Vice President, BJP. Addressing the

gathering, Dr. Singh highlighted the important role of poultry farming in strengthening the rural economy. He said that, alongside agriculture and animal husbandry, the poultry sector has immense potential to generate employment and self-employment opportunities for farmers and rural youth. He emphasized that the adoption of modern technology, scientific approaches and improved management practices can significantly enhance productivity and profitability.

Special Guests Shri Mahendra Pal Singh, Hon'ble MLA, Pipraich, and Shri Pradeep Shukla, Hon'ble MLA, Sahjanwa, also addressed the conclave. Both public representatives highlighted the considerable potential of poultry farming in eastern Uttar Pradesh and emphasized that planned development of the sector can create employment opportunities at the local level and contribute substantially to improving the income of farmers and young entrepreneurs. They called for collective efforts to provide appropriate support to farmers and entrepreneurs.





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The conclave was also graced by **Shri Mukesh Meshram, IAS, Additional Chief Secretary, Department of Animal Husbandry and Dairy, Government of Uttar Pradesh**. He shared detailed insights into government initiatives, departmental priorities and the future prospects of the animal husbandry and poultry sectors. He emphasized that these sectors are important not only from the perspective of nutritional security but also for strengthening the rural economy and creating employment. He stressed the importance of scientific production methods, modern management practices and efficient market systems for the sustainable growth of the sector.

Prof. & Head Dr. Pankaj Kumar Shukla, Department of Poultry Science, Pandit Deen Dayal Upadhyaya Veterinary Science University, and President, IPSA, highlighted the importance of scientific approaches, research, training and modern technology in poultry production. He emphasized the need to strengthen technical guidance and capacity-building programmes for farmers and entrepreneurs.

Several leading experts and industry representatives shared their experience and views during the conclave. Prominent participants included **Shri Suresh Chitturi, Dr. Shreeesh Nigam, Dr. Neeraj Srivastava, Shri O.P. Singh, Shri Uday Singh Bayas, Dr. Santosh Ere, Dr. Jitendra Verma, Dr. Sharad Singh, Shri V.P. Singh and Shri Raju Singh**. The speakers discussed the challenges and opportunities facing the poultry sector, particularly in Uttar Pradesh, and presented practical perspectives based on their respective areas of expertise.



A large number of departmental officials and veterinarians also participated in the event. These included **Dr. Anil Kumar, AD-I; Dr. Ved Prakash, AD-II; all CVOs of Gorakhpur Division; Dr. Brijesh Tripathi; Dr. Gyanendra Singh; Dr. Bipasha; Dr. Vimlendu Bhatt; Dr. Alok Rai; Dr. V.P. Singh; Dr. Saroj Chaudhary; Dr. Atul Yadav; Dr. Sri Krishna Mishra; Dr. Subodh Kumar; Dr. Janardan Yadav; Shri Swatantra Veer; Shri Ravi; Shri Abhishek; Shri Deepak and Shri Anivesh**, along with other veterinarians from Gorakhpur, Maharajganj, Kushinagar and Deoria.

Several eminent poultry farmers, including **Shri Obada, Shri Faiz, Shri Vinod Singh and Shri Ravi Shankar Tiwari**, also participated in the conclave and contributed their practical experience to the discussions.

Experts observed that the poultry sector is no longer confined to conventional egg and meat production but has emerged as a diversified and rapidly developing agriculture-based industry. They emphasized the importance of quality chicks, balanced nutrition, scientific farm management, disease prevention, biosecurity, modern housing systems, hatchery management, reduction in production costs and efficient marketing mechanisms.

The technical sessions focused on modern poultry farming practices, enhancement of production capacity, quality control, disease prevention and biosecurity. Participants were introduced to modern technologies being adopted in poultry production and were informed about emerging trends and the likely future developments in the sector.



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During the discussions, experts highlighted the **immense potential of Gorakhpur Division and eastern Uttar Pradesh** for poultry development. The region's growing population, increasing demand for nutritious food, availability of markets and entrepreneurial potential among young people provide a strong foundation for expansion of the poultry industry. Speakers stressed that greater coordination among farmers, entrepreneurs, scientists, veterinarians, government officials and public representatives will be essential to realize this potential.

The conclave also gave considerable attention to the practical challenges faced by small and medium poultry farmers. Experts emphasized the need for regular training, technical guidance, timely veterinary and scientific advice, access to modern technology and better linkages with markets. Strengthening these support systems, they said, would enable small and medium-scale farmers to improve productivity, reduce risks and increase profitability.

Biosecurity emerged as one of the key priorities discussed during the conclave. Experts emphasized farm-level cleanliness, controlled entry, proper vaccination, disease surveillance and scientific management practices as essential measures for disease prevention. They noted that healthy poultry production is important not only for protecting farmers' investments but also for ensuring safe and quality food for consumers.

The importance of **nutritional security and protein availability** was also emphasized. Speakers highlighted eggs and chicken as important sources of high-quality protein and stressed the need to promote awareness regarding balanced nutrition, particularly among women and children.

The conclave further emphasized the need to encourage **women and young entrepreneurs** to participate actively in the poultry sector. The relatively short production cycles, growing consumer demand and opportunities across different stages of the poultry value chain make the sector an attractive avenue for entrepreneurship and self-employment. Small and medium poultry enterprises in rural areas, if supported with appropriate technology and training, can contribute significantly to strengthening local economies.

Experts also called for stronger coordination between investors, poultry industry stakeholders and farmers. Collaboration among government departments, academic and research institutions and the private sector, they said, can accelerate technological advancement, improve access to knowledge and finance, strengthen markets and provide new momentum to poultry development.

The **First Poultry Conclave, Gorakhpur**, thus emerged as an important platform for dialogue and knowledge-sharing among the government, poultry industry, scientific community, veterinarians, farmers and entrepreneurs. Participants expressed the view that similar conclaves and technical programmes should continue to be organized so that the latest technologies, scientific knowledge and practical experiences can reach farmers and entrepreneurs across the region.

The conclave conveyed a clear message that **Gorakhpur and eastern Uttar Pradesh have the potential to emerge as an important poultry production hub** if scientific technology, quality inputs, proper training, modern management, biosecurity and effective stakeholder cooperation are integrated with planned development initiatives.

The successful one-day conclave concluded with a collective commitment towards the **sustainable and comprehensive development of the poultry sector, enhancement of farmers' incomes, creation of employment and self-employment opportunities for youth, promotion of women entrepreneurship, strengthening of protein and nutritional security, and wider adoption of modern and scientific poultry production practices.**

The public representatives, government officials, scientists, veterinarians, industry representatives, poultry farmers and other participants expressed satisfaction over the successful organization of the conclave and described it as a meaningful initiative towards strengthening the poultry sector in eastern Uttar Pradesh.

Convenor
Dr. Sanjay Kumar Srivastava
 First Poultry Conclave, Gorakhpur

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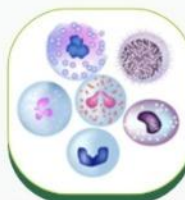
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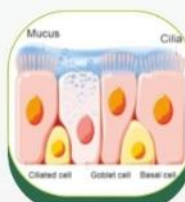
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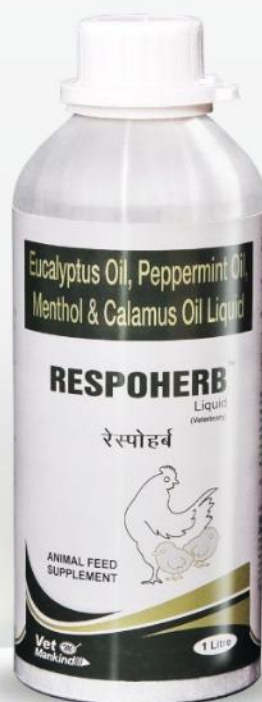
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IB Group Aims to Make Jammu & Kashmir Self-Reliant in Poultry Production

“Kashmir has a strong poultry market; the next priority is to build local production,” says IB Group Managing Director Bahadur Ali.

IB Group, one of India's leading integrated poultry companies, has outlined a long-term vision to help Jammu & Kashmir become self-reliant in poultry production. The company aims to strengthen local production through modern technology, quality inputs, organised broiler integration and continuous technical support for farmers.

Speaking during the Srinagar Poultry Conclave, organised by ABIS Foods and Proteins Pvt. Ltd., on August 03, 2026 at SKICC, Srinagar, IB Group Managing Director Mr. Bahadur Ali said Jammu & Kashmir is a major market for chicken and other non-vegetarian food. However, local poultry production remains far below consumption levels, and nearly 60 to 70 per cent of the region's chicken requirement is met through supplies from other states.

According to Mr. Bahadur Ali, poultry farming in many parts of the Kashmir remains traditional and unorganised, which affects productivity, bird performance and farmer profitability. Mr. Ali said IB Group is well positioned to help address these gaps because of its pan-India experience and integrated infrastructure. The company has its own feed plants, hatcheries, technical service network and a strong forward and backward integration model. Through organised broiler integration, IB Group provides farmers with quality chicks, balanced feed, veterinary and technical support, scientific farm-management practices and market linkage.

He said higher local production would reduce dependence on other states, improve farmers' incomes, generate employment for local youth and strengthen the rural economy. The company also plans to work with leading banks to support eligible farmers in accessing finance for modern poultry infrastructure. Mr. Ali further said IB Group would look forward to collaborating with the Jammu & Kashmir administration and other stakeholders to help develop progressive, farmer-centric policies that encourage modern poultry farming, improve productivity and support long-term profitability.

The Srinagar Poultry Conclave was attended by more than 200 poultry farmers from different parts of Jammu & Kashmir. The



day-long event included technical sessions on scientific broiler farming, modern production practices, farm management and ways to improve profitability. Poultry Farmers who had delivered strong performance were also recognised and felicitated. Concluding his interaction, Ali said, “Our objective is not to see Jammu & Kashmir remain only a large poultry-consuming market. We want to work with farmers, banks and the government to help it emerge as a modern, organised and self-reliant poultry-producing region.”





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GLOCREST Hosts Farmer's Meeting in Rasipuram (Namakkal) with Focus on the 3M Approach to Poultry Farming

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GLOCREST Pharmaceutical Pvt. Ltd. hosted a **Farmer's Meeting** at Hotel Shanthi Inn Grand, Rasipuram, bringing together poultry farmers for an informative and interactive session focused on better poultry health, improved farm performance and farm profitability.

The key highlight of the programme was an insightful technical session by **Dr A. Natarajan, Professor & Head (Retd.), Veterinary College, Namakkal**. Drawing from his extensive experience in the poultry sector, Dr Natarajan shared practical insights that could be applied directly to day-to-day farm management.

The session centred around the **3M approach - Materials, Men and Machines**, three fundamental elements that have an important role in the successful management of a poultry farm.

Materials represent the various resources and inputs required for efficient farm operations. **Men** focus on the people responsible for managing and carrying out farm activities, while **Machines** highlight the importance of suitable equipment and technology in improving efficiency and productivity. The session emphasised that effective coordination and management of all three elements are essential for achieving consistent farm performance.

The session was highly interactive, with farmers actively participating in the discussion, sharing their experiences and raising practical questions related to their farming operations. Dr Natarajan addressed the discussions with practical examples and guidance, making the session

relevant to the challenges faced by farmers at the field level.

The meeting was hosted by **Dr Ramdas Kambale, CEO & Board Member, GLOCREST Pharmaceutical Pvt. Ltd.**, along with **K. Jayakumar, RSM - Tamil Nadu & Kerala**, and **GLOCREST team members Vivek, Suresh Babu and Karthik**. The team coordinated the programme and interacted closely with the participating farmers throughout the meeting.

Dr Kambale introduced the company profile and product specialities like Calcitriol-D, Chelomix, Enziprob, Feedocid, Toxkill and the liquid range like GLOTONIC, etc.

The gathering also provided GLOCREST with an opportunity to strengthen its relationship with the farming community. Such direct interactions help the company understand the practical requirements and challenges faced by farmers while creating a platform for meaningful technical discussions and knowledge-sharing.

The enthusiastic participation of the farmers and the open exchange of ideas made the meeting a valuable and engaging experience. The programme concluded on a positive note, with a shared focus on **better poultry health, efficient farm management and improved farm performance**.

Through farmer-focused initiatives like these, **GLOCREST continues to strengthen its connection with the poultry fraternity and contribute towards better health, productivity and profitability in poultry farming**.





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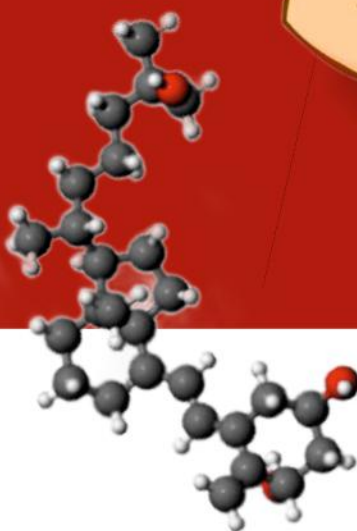


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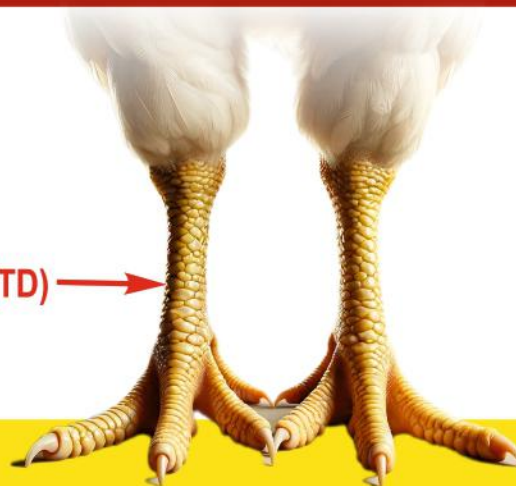


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NEWS

IVRI honours Mangaluru vet Dr Sushanth Rai Bellipadi with 'Professor of Practice' recognition

Renowned veterinary expert Dr Sushanth Rai Bellipadi of Mangaluru has been conferred the prestigious 'Professor of Practice' recognition by the Indian Veterinary Research Institute (IVRI) under the Indian Council of Agricultural Research (ICAR), one of the country's premier veterinary research institutions.

The honour was awarded in recognition of Dr Bellipadi's significant professional contributions and long-standing service to the dairy and poultry industries, particularly in the areas of industry development, adoption of modern technologies and advancement of animal and

The recognition was formally conferred at a recent programme held at the ICAR-IVRI campus at Izatnagar, Bareilly, Uttar Pradesh. Dr Raghavendra Bhat, deputy director general (DDG), ICAR and director of IVRI, Dr S K Mendiratta, joint director, and other dignitaries were present on the occasion.

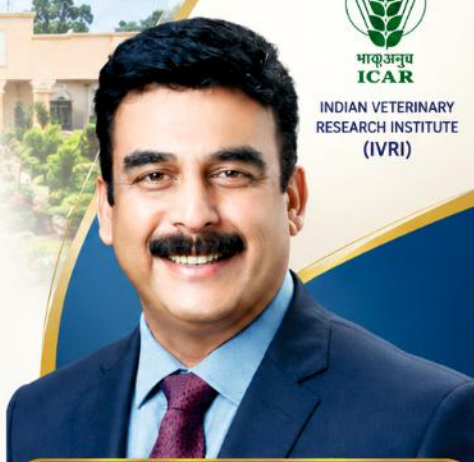
Dr Bellipadi is the managing partner of Raisons Nutritions, Mangaluru, and has been actively associated with the dairy and poultry sectors for several years. Through his professional expertise and industry engagement, he has contributed to the growth and modernisation of these sectors.

He is also a member of the Veterinary Council of India and serves on the Board of Management of the Karnataka Veterinary, Animal and Fisheries Sciences University. In addition, he is a former president of the Karnataka Poultry Farmers and Breeders Association.

The 'Professor of Practice' recognition is regarded as an important acknowledgement of Dr Bellipadi's professional expertise and practical knowledge in the veterinary and allied livestock sectors.

The honour also recognises his ability to bring industry experience and practical knowledge into the academic sphere, thereby strengthening the connection between veterinary education, scientific knowledge and real-world industry practices.

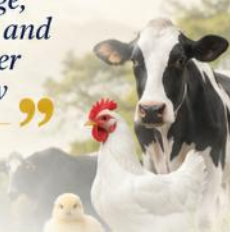
Dr Bellipadi's recognition by ICAR-IVRI marks a significant achievement for Mangaluru and reflects his contributions to the continued development of the dairy, poultry and veterinary sectors.



Dr Sushanth Rai Bellipadi
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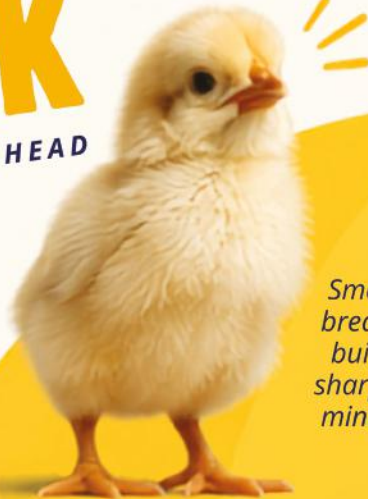
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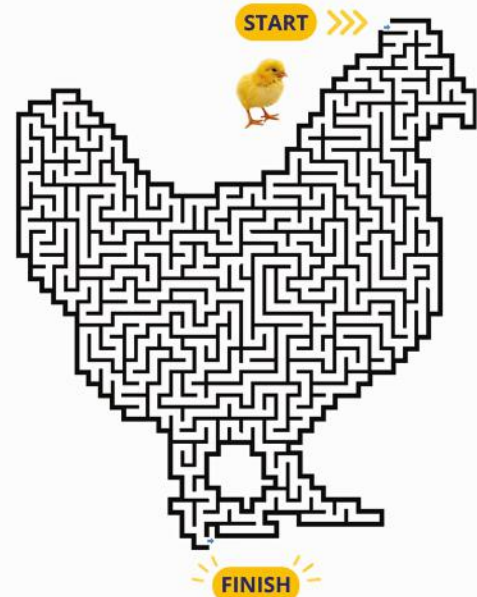


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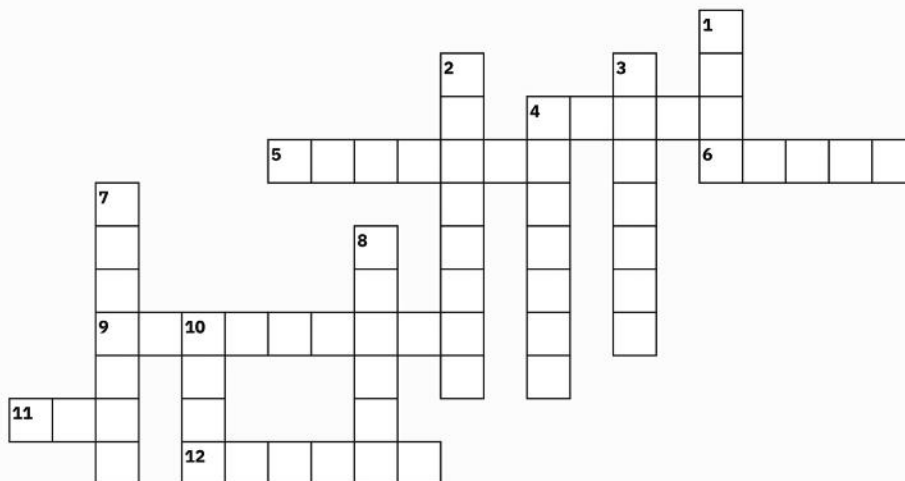
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6. Protective footwear worn by workers inside the farm
9. Machine used to automatically hatch eggs
11. Mature female chicken kept for egg production
12. Young female chicken before she starts laying eggs

DOWN

1. Fleishy red growth on top of a chicken's head
2. Where eggs are incubated and chicks are hatched
3. Natural process when birds lose and regrow their feathers
4. Chicken raised specifically for meat production
7. Keeping yourself, clothing and farm surroundings clean to help prevent disease
8. Fleishy red part hanging under a chicken's beak
10. Housing structure for chickens

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Venkateshwara B.V. Biocorp Pvt. Ltd. (East Zone) Organizes Technical Seminar on Modern Feed Premix Solutions for Layer Nutrition in Berhampur

Venkateshwara B.V. Biocorp Pvt. Ltd. (East Zone) organized a technical seminar on "Modern Feed Premix Solutions for Layer Nutrition" on 17th June 2026 at Berhampur, Odisha. The programme brought together layer farmers from Berhampur and nearby districts, providing an excellent platform for technical knowledge sharing, scientific discussions, and interaction with industry experts.

The programme commenced with a warm welcome address by **Mr. Satyajeet Mohanty, Zonal Manager (East Zone)**, who welcomed the participating farmers and emphasized Venworld's commitment to strengthening the poultry industry through scientific knowledge-sharing initiatives. **Mr. C. Sahoo, AGM (East Zone)**, further elaborated on Venworld's farmer-centric approach, highlighting the company's focus on delivering innovative nutritional solutions, customized feed formulations and continuous technical support to help poultry farmers improve productivity, profitability and overall flock performance.

The technical session was delivered by **Dr. Sanjay Deshpande, AGM (Technical)**, on "Modern Feed Premix Solutions for Layer Nutrition." He explained that developing healthy, uniform pullets is the foundation of a successful laying flock and emphasized the importance of precision nutrition in maximizing feed efficiency, sustaining egg production, improving egg quality, and maintaining flock health. The session covered practical aspects of phase-wise feeding, gut health management, efficient nutrient utilization and strategic feed formulation to achieve optimum production performance.

A major highlight of the seminar was the detailed presentation on **Mixiblend Layer Premix**, Venworld's advanced nutritional solution developed for modern commercial layer flocks. Dr. Deshpande explained that the premix is scientifically formulated to meet the changing nutritional requirements of birds throughout

different stages of the laying cycle, ensuring an optimum balance of nutrients for sustained production and superior flock performance. He highlighted its role in improving feed efficiency, maintaining persistency of lay, enhancing eggshell strength, yolk pigmentation, albumen quality, egg uniformity, and overall bird health, ultimately leading to improved farm profitability.

The session also demonstrated how **Mixiblend Layer Premix** supports precision nutrition through phase-feeding programmes by providing balanced levels of essential vitamins, minerals, amino acids, and trace elements required for optimum egg production. Farmers were informed about the flexibility of utilizing locally available raw materials for customized feed formulations, enabling them to optimize feed costs while maintaining nutritional consistency and production efficiency. This farmer-centric approach allows producers to achieve higher productivity and better economic returns under diverse field conditions.

The programme concluded with an interactive discussion, during which farmers actively shared field-level challenges and received practical, experience-based recommendations from the technical experts. The vote of thanks was delivered by **Mr. Rajat Pattnayak, Senior KCM**, who expressed his sincere appreciation to all participants for their enthusiastic involvement and reaffirmed the company's commitment to empowering poultry farmers through continuous technical education, innovative nutritional solutions, and farmer-focused extension programmes.

The seminar concluded on a highly positive note, reinforcing Venworld's strong partnership with the poultry farming community and reaffirming **Venkateshwara B.V. Biocorp Pvt. Ltd.**'s commitment to delivering innovative nutritional solutions, technical excellence, and sustainable practices that enhance productivity, profitability, and the long-term growth of the poultry industry across Eastern India.



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Cyanosis (Purple Head) In Broiler Breeder Males

Introduction

Transient cyanosis in broiler breeder males is a well-recognized issue in commercial poultry production, manifesting as a purple discoloration of the comb and skin due to deoxygenated blood. This condition is closely linked to cardiac function, feeding management, and environmental stressors. Recent collaborative studies and morphometric research have provided deeper insights into its prevalence, causes, and management strategies.

Cyanosis In Broiler Breeder Males

Cyanosis (purple head) is observed in breeder males, typically around 35-40 weeks of age, and is sometimes used as a management indicator (Figure 1). The condition is not limited to one breed or line and may be transient, with color changes throughout the day; cyanosis appears after feeding, then disappears during the day. Affected birds show no respiratory distress, and necropsy reveals few gross lesions except occasional flaccid hearts. Echocardiography has detected aortic insufficiency (AOI) in a significant proportion of affected males, and laboratory findings show elevated hematocrit and hemoglobin concentrations, suggesting increased blood viscosity and potential compensatory polycythemia, a condition where an overproduction of red blood cells compensates for a lack of oxygen. This information is intended to provide physiological context and support practical management decisions, rather than to imply differences between breeds or genetic lines. There is no evidence of a genetic basis for this condition; therefore, management should be the focus to reduce field incidence.

FIGURE 1: An example of affected (left) and unaffected (right) broiler breeder males.

Practical Management Of Male Cyanosis

Feeding And Physical Stress

Cyanosis typically occurs during periods of peak physical stress, such as feeding or mating, when oxygen demand spikes and the heart may struggle to keep pace. For this reason, feed distribution should be completed within three minutes to prevent uneven gorging and panic. Male exclusion grills must be intact to prevent males from stealing hen feed, which increases their body mass and oxygen demand while physically restricting their air sacs. In addition, verify water quality, drinker space, and water line flow rates to ensure they meet the requirements for broiler breeder males.

Field observations have also suggested that behaviors such as litter consumption may contribute to transient episodes in some flocks, although the underlying mechanism remains unclear.

Body Weight And Condition Control

Rear males to a body weight profile that meets or slightly exceeds current breed standards, as these higher profiles help prevent conditions such as Valgus-Varus Deformity (VVD), also known as 'X-legs'. Achieving and maintaining good body weight and uniformity in male populations is as critical as it is in females, because cyanosis occurs less frequently in well-managed, well-fed males. Over-fleshed males (with a Dimpled U-shaped breast; score 5) are at higher risk since muscle tissue is oxygen-expensive. Therefore, target a fleshing score of 2.5-3 (a Standard V or Standard U-shaped breast; score 2-3) to minimize risk (Figure 2).

FIGURE 2: Scoring system to assess bird body condition (fleshing).

Score	Fleshing Type / Age	Description
1	Sunken V	Should not be seen within the flock. Male is emaciated, keel bone is prominent, practically no flesh to measure.
2	—	Keel bone is prominent, but male is carrying some fleshing.
3	Standard V—20–30 weeks	Chest is just beginning to round out, keel bone is felt down the middle, carrying a decent amount of fleshing.
4	Standard U—30–50 weeks	Chest is getting wider, but still a U shape, practically no keel bone left to be felt.
5	Wide U / Dimpled U—>50 weeks	Wide U: grossly over-fleshed. Dimpled U: breast dimples, sinking back to the keel. Dimpled U should not be seen within the flock.

Ventilation

Oxygen demand peaks during feeding, regardless of temperature. Increase ventilation 10 minutes before and during feeding to maximize oxygen availability. Maintaining good air quality and effective air exchange is important, as suboptimal ventilation, elevated ammonia or carbon dioxide levels, and reduced oxygen availability may add to physiological stress and contribute to symptom expression, even in open-sided housing systems.

Triage And Culling

If cyanosis is observed, monitor the bird's recovery post-feeding. Persistent cyanosis indicates heart failure and warrants culling.

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Morphometric Documentation Of Cardiac Abnormalities

Study Overview

Research by Floyd D. Wilson et al (2016) documented a high prevalence of left ventricular dilated cardiomyopathy in mature broiler breeder males, both cyanotic and clinically normal. To better contextualize these findings within commercial production, the study also incorporated comparisons to market-age broilers.

Key Findings

Both cyanotic and normal broiler breeder males showed extensive left ventricular chamber dilation, with no significant difference between groups. Older males (average 42 weeks of age) had significantly higher left and right ventricular weight-to-total heart weight ratios compared with market-age broilers (average 7 weeks of age).

Morphometric data indicated that the left ventricle chamber area-to-total ventricle area ratio increased from 3.2% in broilers to 10% in broiler breeder males; 33% of males had left ventricular volume ratios above 10%, with 13% above 20%. The right ventricle-to-total ventricle weight ratio (RV/TV) increased from 0.18 in broilers to 0.25 in males, and 36% of males exceeded the threshold

for right ventricular hypertrophy, although ascites was not observed. Left ventricle wall area-to-body weight ratios were similar between age groups.

Histopathology revealed only minimal endocardiosis, with no substantial changes suggestive of dilated cardiomyopathy.

Collectively, these findings suggest that left ventricular enlargement in broiler breeder males is primarily due to dilation rather than hypertrophy, possibly linked to systemic hypertension and aortic insufficiency, and they highlight the need for further research into the relationship between cyanosis, cardiac dilation, and breeding performance.

Conclusions And Recommendations

The combined evidence from pathological and morphometric studies underscores the complexity of health challenges in broiler breeder males. Cyanosis and cardiac dilation are prevalent and multifactorial, impacting both flock management and productivity. Management strategies should prioritize rapid feed distribution, strict control of body weight and uniformity, sufficient drinker space and flow rates, and enhanced ventilation during feeding. Continued research and vigilant health monitoring are essential for optimizing breeder welfare and performance.

BULLETIN

Strengthening Bihar's Poultry & Food Processing Ecosystem

It was a pleasure to witness a productive meeting between Hon'ble Union Minister for Food Processing Industries, Shri Chirag Paswan Ji, and the delegation from IB Group Mr. Saurabh Nagpal, SVP & Head - Broiler Integration and Mr. Amit Sharma from the Strategy Team. The discussions focused on IB Group's proposed investments in Bihar including the establishment of a modern chicken processing unit and the expansion of its feed plant and hatchery operations.

Hon'ble Minister Shri Chirag Paswan Ji warmly welcomed IB Group's investment plans and assured support from the Ministry and the Government of Bihar for these initiatives. uch investments have the potential to create significant employment opportunities, strengthen the poultry value chain, promote food processing, support local farmers, and contribute to Bihar's economic development.

The expansion of modern poultry processing and allied infrastructure can play an important role in building a more organised, efficient and sustainable poultry ecosystem in Bihar. This will not only accelerate investment and industrial growth in the state but also help shape the future of Bihar's poultry and food processing industry.A





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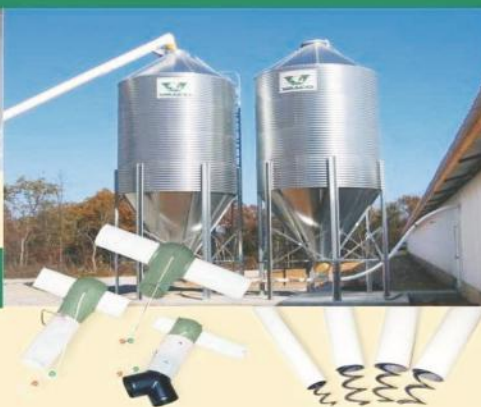
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Building a Healthier Gut: The Promise of Novel Biopolymers in Poultry



Supporting Gut Health in the Era of Antimicrobial Resistance

Modern poultry production depends on maintaining a healthy and functional gut throughout the production cycle. Gut health is closely connected with nutrient absorption, immunity, growth, feed efficiency and overall production performance.

But maintaining gut health is becoming increasingly challenging. Poultry production is facing growing pressure from **antimicrobial resistance (AMR)**, **antimicrobial residue concerns** and **rising food-safety expectations**. As a result, the industry is rethinking how microbial challenges are managed and looking for effective non-antibiotic approaches to support bird health and performance.

This is where **novel biopolymers are emerging as a promising new frontier in poultry gut health**.

The AMR Challenge: A New Direction for Poultry Health

Antibiotics have played an important role in poultry production and disease management. However, inappropriate or excessive antimicrobial use can contribute to the development and spread of antimicrobial resistance (AMR).

The concern is no longer limited to bird health. It extends to food safety, responsible antimicrobial use and the wider food chain. Consumers, processors and international markets are placing increasing emphasis on responsible antimicrobial practices and better control of antimicrobial interventions.

This changing landscape is creating an opportunity for a new generation of **non-antibiotic gut-health solutions** that support bird performance through biological mechanisms rather than relying solely on conventional antimicrobials.

The objective is not simply to replace one antimicrobial with another. It is to **support the biological systems that help maintain a healthy, functional and resilient gut**.

Beyond Residues: The Growing Demand for Safer Poultry Production

Food safety is another important consideration in modern poultry production.

The potential presence of antimicrobial residues in poultry meat and eggs, particularly when antimicrobial products are not used appropriately or withdrawal requirements are not adequately managed, remains an important concern.

As the industry moves towards greater transparency, responsible antimicrobial use and food-safety

compliance, there is growing interest in solutions that can support poultry performance while reducing dependence on conventional antimicrobial interventions.

This creates space for innovative technologies such as **novel biopolymers**, which offer the potential to support gut health through multiple biological pathways.

From Antibiotic Replacement to Biological Support

The future of poultry health may not be about finding a single product to replace an antibiotic.

It is about **supporting the bird's own biological systems to maintain a healthy and resilient gut**.

A novel biopolymer can offer a multifunctional approach to gut health, combining antimicrobial activity with support for **gut microbiota, intestinal integrity and gut immunity**.

Its antimicrobial action may involve a dual-target mechanism, interacting with the **bacterial cell wall or membrane and bacterial DNA**. This can interfere with bacterial integrity, cellular function and replication, helping to control undesirable bacterial populations.

But antimicrobial activity is only one part of the story.

The greater opportunity lies in supporting the complete gut environment.

One Gut. Three Pillars. One Healthier Bird.

A healthy poultry gut depends on the close interaction between three essential components:

Gut Microbiota

Maintaining microbial balance and helping manage undesirable bacterial populations.

Gut Integrity

Supporting the intestinal barrier and its protective and absorptive functions.

Gut Immunity

Supporting the gut-associated immune system in responding effectively to microbial and environmental challenges.

A novel biopolymer can work across these interconnected areas, helping create a **more stable, balanced and resilient intestinal environment**.

Control the pathogen. Balance the microbiota. Strengthen the gut. Support the immune system.

This makes a novel biopolymer more than simply an antimicrobial ingredient. It represents a **multifunctional approach to gut-health management—one that focuses not only on controlling microbial challenges, but also on strengthening the biological foundation of the bird**.

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WHEN THE SAME PROBIOTIC GIVES DIFFERENT RESULTS

Why probiotic performance depends on more than what is written on the label

Written by Zytex Animal Nutrition Team

SUMMARY

Two poultry farms can administer the same probiotic and observe different outcomes. This apparent variability does not necessarily indicate inconsistency in the product. Probiotic performance is a function of multiple interacting factors, including strain-specific functional properties, viable cell/spore delivery, formulation and stability, application conditions, host physiology, production environment and the nature and intensity of the biological challenge.

For this reason, meaningful probiotic development requires more than identifying an organism at the species level or maximizing the viable count. It requires systematic characterization of individual strains and validation of their biological relevance under the conditions in which they are intended to be used.

A NAME ON THE LABEL DOES NOT TELL THE WHOLE STORY

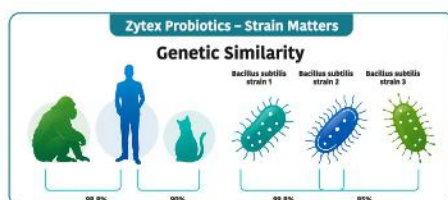
Two products carrying the same species designation may exhibit markedly different functional characteristics.

Bacillus subtilis provides a useful example. Species-level identification establishes taxonomic identity, but it does not fully describe the functional phenotype of an individual strain. Strains within the same species may differ in their extracellular enzyme production, substrate utilization, tolerance to gastrointestinal stresses, antimicrobial activity, sporulation behavior, interaction with the intestinal microbiota and other characteristics relevant to animal nutrition.

The species provides taxonomic identity; the strain provides functional individuality.

This distinction is fundamental to rational probiotic development. Rather

than assuming that all the strains belonging to a species are functionally equivalent, individual isolates should be evaluated using a defined set of phenotypic, technological and genomic criteria relevant to their intended application.



At Zytex, this strain-level approach begins with large-scale microbial discovery. *Bacillus* isolates have been recovered through extensive sampling of diverse sources, including soil, poultry-associated materials such as feathers, and gastrointestinal samples.

THE GUT IS A LIVING ECOSYSTEM

The poultry gastrointestinal tract is a dynamic microbial ecosystem rather than a passive site into which a probiotic is introduced.

Its physicochemical and microbial characteristics change with bird age, diet, water quality, environmental temperature, management practices, medication, health status and disease pressure. The resident microbiota also represents an important component of this ecosystem and can influence the establishment and activity of an introduced microorganism.

Consequently, two flocks receiving the same probiotic may present substantially different biological conditions at the time of administration. The probiotic itself may be unchanged; the ecological context in which it is expected to function may not be.

Probiotic performance should therefore be understood as an interaction between the intrinsic properties of a microbial strain and the biological environment in which that strain is applied.

More than 1,000 isolates were established in the laboratory and progressively evaluated using in vitro functional screening, fermentation-related characteristics, and bioinformatic assessment.

The strongest candidates were narrowed to approx. 10–15 lead strains, which were subsequently evaluated in poultry trials. Eight strains demonstrating the most relevant overall performance were selected for commercial development.

The objective is therefore not simply to collect *Bacillus* organisms, but to systematically identify strains with defined and demonstrable characteristics relevant to their intended application.

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WHO WE ARE

Zytex Biotech Pvt. Ltd., Founded in 2006, Zytex is a science-driven manufacturer of Bacillus-based probiotics for animal gut health. Combining advanced strain discovery, fermentation technology, and application science, Zytex delivers innovative formulations that enhance animal performance under real farm conditions.

WHAT SETS ZYTEX APART

Bacillus-Centric Expertise

Strains selected for target applications such as pathogen control, immunity enhancement, feed digestion, and gut integrity.

Manufacturing Excellence

We adhere to the highest international standards in production, ensuring superior quality products that are proudly marketed across global markets.

Strong Scientific Validation

In-vitro screening, in-vivo validation, genomic and a bioinformatic assessment to select the optimal strain for formulation development.

Application-Focused R&D

Research driven by field performance, not just lab results. Tested globally.

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105



SURVIVAL IS IMPORTANT. WHAT HAPPENS AFTER SURVIVAL MATTERS MORE.

Spore-forming *Bacillus* organisms are particularly attractive for animal-nutrition applications because their spores exhibit high resistance to several processing, storage and environmental stresses. This resilience can support product stability and delivery through demanding feed and farm conditions.

However, survival is only the first prerequisite. Delivery of viable spores to the bird does not, by itself, establish biological efficacy. The relevant question is what the selected strain is capable of doing after exposure to the intestinal environment.

This is one reason why strain selection should incorporate functional characterization rather than relying solely on sporulation capacity or survival measurements.

SURVIVAL IS IMPORTANT. WHAT HAPPENS AFTER SURVIVAL MATTERS MORE.

Between manufacture and the gastrointestinal tract, a probiotic may encounter feed-processing conditions, storage temperature and humidity, water quality, chlorination, mixing conditions, medication programmes and gastrointestinal stresses.

These factors can influence the number and physiological state of viable microorganisms ultimately delivered to the bird. Consequently, the formulated specification and the biological exposure experienced by the animal are not necessarily identical.

A scientifically designed probiotic must therefore be evaluated not only as a laboratory culture, but also in the context of formulation, manufacturing, storage and practical farm application.

THE FARM CHALLENGE CHANGES THE MEANING OF PERFORMANCE

Consider two flocks with the same feed conversion ratio (FCR). Although the numerical outcome is identical, the underlying biological conditions may be different.

One flock may be affected primarily by nutrient utilisation, another by enteric microbial pressure, another by reduced feed intake associated with environmental stress, and another by water quality or management factors.

A production parameter is therefore an outcome measure, not necessarily a diagnosis. FCR tells us that a production response occurred; it does not, by itself, identify the biological mechanism responsible for that response.

Interpretation of probiotic efficacy should consequently consider the production context, baseline performance and relevant biological challenge rather than relying on a single performance metric.

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Interpretation of probiotic efficacy should consequently consider the production context, baseline performance and relevant biological challenge rather than relying on a single performance metric.

NUTRITION AND THE GUT ARE PART OF THE SAME SYSTEM

The intestinal environment is closely coupled to the composition and digestibility of the diet.

Feed ingredients determine the substrates available for digestion and microbial metabolism. Enzymes can alter nutrient accessibility, while prebiotic and other functional feed components can influence the substrates available to the intestinal microbiota. Feed quality and nutrient availability can, in turn, influence intestinal physiology and microbial ecology.

The relationship is therefore continuous:

Feed → Digestion → Nutrient availability → Microbial activity → Intestinal environment →
Nutrient utilisation → Production performance

Probiotics should consequently be considered as one component of an integrated production system. Their potential contribution is influenced by nutrition, feed processing, management, environmental conditions and the existing intestinal microbial community.



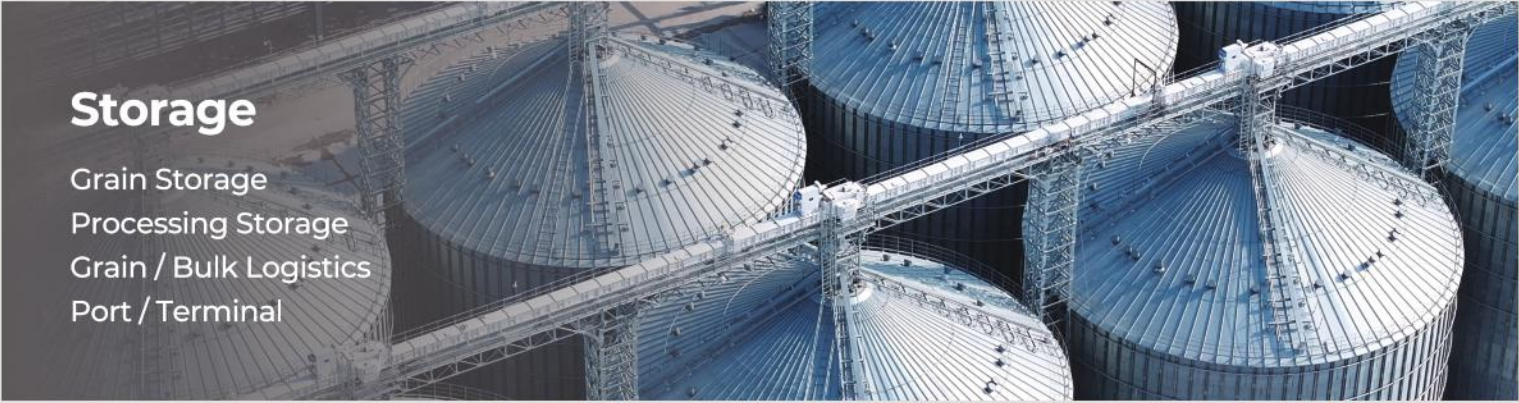
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TIMING CAN CHANGE THE OUTCOME

The physiological and microbial state of a flock changes throughout the production cycle.

The gastrointestinal environment of a young bird differs from that of a mature bird. Conditions during normal production differ from those during heat stress, dietary transition or recovery from an enteric disturbance. The magnitude and nature of a biological challenge can therefore influence the opportunity for a probiotic strain to demonstrate a measurable effect.

This does not necessarily make probiotic responses unpredictable. Rather, it reflects the dynamic nature of host-microbe interactions.

Effective probiotic development and application should therefore consider the intended production stage, application strategy and biological context.



WHY SOME PROBIOTICS APPEAR TO WORK BETTER THAN OTHERS

When two probiotic products produce different responses, the comparison should extend beyond the product label.

Potential sources of difference include strain identity, strain-specific functional characteristics, viable-cell or spore stability, formulation, application method, dose, timing of administration, flock status and the nature of the prevailing biological challenge.

Sometimes the probiotic itself may be the major determinant of the response. In other situations, environmental or management variables may exert a stronger influence. Understanding these variables is therefore more informative than simply replacing one product with another without determining why the original response occurred.

FROM PROBIOTIC PRODUCTS TO PROBIOTIC INTELLIGENCE

The development of probiotics in animal nutrition is moving from a product-centric question—whether a product contains a probiotic organism—to a strain-centric question: what biological characteristics does the strain possess, and under what conditions are those characteristics relevant?

This is the basis of a precision-probiotic approach.

It does not imply that every farm requires a unique formulation. Rather, it means that strain selection, formulation and application should be guided by biological relevance and evidence rather than by species names, strain counts or marketing specifications alone.

The emphasis therefore shifts from quantity to function, from species to strain, from generic application to biological fit, and from product claims to measurable outcomes.

FROM PROBIOTIC PRODUCTS TO PROBIOTIC INTELLIGENCE

Laboratory studies can identify functional traits and provide evidence of biological potential. Controlled animal trials can establish whether those characteristics translate into measurable effects under defined experimental conditions.

Ultimately, however, poultry production operates under commercial conditions where multiple variables interact. The practical value of a probiotic therefore depends on whether its biological potential translates into meaningful production outcomes.

Relevant measures may include feed conversion ratio, body weight gain, flock uniformity, mortality, litter quality, nutrient digestibility and overall production efficiency. The interpretation of these endpoints should consider the experimental design, baseline performance and prevailing production challenge.

A biological response is valuable, but its significance for commercial application is determined by the reproducibility and practical relevance of the resulting production outcome.

THE FINAL TEST HAPPENS ON THE FARM

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TIMING CAN CHANGE THE OUTCOME

An unexpected field or trial outcome should not automatically be interpreted as evidence that the probiotic category has failed.

Possible explanations include an incomplete match between strain characteristics and the intended application, suboptimal delivery conditions, inadequate or inappropriate biological challenge, environmental or management factors that dominate the response, or an effect that is biologically measurable but too small to produce a detectable commercial difference.

These possibilities change the scientific question from “Did the product work?” to “What biological and production factors explain the observed response?”

That shift is important because it encourages evidence-based interpretation rather than conclusions based on a single outcome.

THE FUTURE OF PROBIOTICS IS NOT SIMPLY MORE PROBIOTICS

The next stage of animal-nutrition innovation is unlikely to depend simply on increasing the number of probiotic products, strains or CFU claims.

Progress will depend on better strain discovery, rigorous functional characterisation, genomic and bioinformatic assessment, appropriate formulation and delivery, application-specific knowledge and well-designed validation studies.

The value of a probiotic should ultimately be defined by the depth of evidence supporting the strain and by the reproducibility and relevance of its biological and production outcomes.

THE FUTURE OF PROBIOTICS IS NOT SIMPLY MORE PROBIOTICS

There is no universal gastrointestinal environment, no universal farm condition and no single microbial strain that can be expected to perform identically under every production scenario.

A scientifically grounded probiotic strategy therefore begins with understanding the biological environment, recognising the functional individuality of strains and selecting microorganisms with characteristics relevant to a defined application.

At Zytex, this philosophy is reflected in a progressive strain development process: broad microbial discovery, systematic in-vitro screening, assessment of fermentation and technological characteristics, genomic and bioinformatic evaluation, followed by poultry validation. From a starting library of more than 1,000 *Bacillus* isolates, a smaller group of lead candidates was identified and subsequently

evaluated in poultry trials, resulting in the selection of eight strains for commercial development.

This is the essence of precision probiotic thinking:

Not simply more microorganisms, but better-characterized microorganisms.

Not simply higher CFU, but meaningful functional attributes.

Not simply a species name, but a defined strain.

Not simply a laboratory observation but validated biological performance.

Precision begins with understanding the organism—and continues through validation in the environment where it is intended to perform.



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Legend SERIES 36

In our journey we visited many faces with our poultry Sector legends, and one among them is Mr. Venkateshwar Rao Chalimeda



1. Are you originally from Hyderabad?

We are originally from Karimnagar. Later on expanded our operations to Hyderabad and Andhra

2. What has been the best part of your journey?

The journey itself has been the most rewarding. I have been associated with the poultry industry for nearly 50 years, and this coming March will mark that milestone.

It has been fascinating to witness the industry's transformation from small backyard poultry farming to today's highly advanced, technology-driven operations.

Interestingly, joining the poultry industry was never part of a grand plan. After graduating from the College of Agriculture, Nagpur, I was searching for a job at a time when employment opportunities were limited. My father asked me to spend some time at our factory until I found a suitable government job. Those opportunities took many years to materialize, and before I knew it, poultry had become my profession and my life's work.

3. Why did you choose the poultry and livestock profession?

To be honest, I did not consciously choose it. The profession chose me. I often say I simply got "stuck" here, but looking back, I believe it was destiny. What

began as a temporary arrangement gradually became a lifelong passion and career.

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

I believe my presence in the industry is closely linked to the journey of our organisation. Having been part of this industry for nearly five decades, I have witnessed its evolution through every phase, from its early years to today's modern, technology-driven era.

As one of the oldest surviving companies, established in 1967, we have experienced both the highs and the lows of the poultry industry. That long journey has given us resilience, perspective and the ability to adapt with changing times. Personally, I believe consistency, experience and staying committed to the industry over so many years are what distinguish my contribution.

5. Please tell us about your family.

We are four brothers. My younger brother and I look after the business, while another brother manages a medical college.

I have two daughters. My elder daughter is a doctor based in the United States, and my younger daughter manages a poultry breeding farm near Hyderabad. I am proud that the family continues to contribute to different fields with dedication and commitment.



6. What is your dream for the next generation entering this business?

My advice to the next generation is simple. Diversify. The poultry industry offers many opportunities beyond traditional business models. I encourage young entrepreneurs to explore new areas, embrace innovation and pursue whatever they believe holds promise for the future.

7. What is your favourite food?

I enjoy anything that is both healthy and tasty. However, whenever I eat out, chicken kebabs are my first choice.

8. What are your hobbies?

Sports have always been an important part of my life. I represented my university in table tennis and was also a member of the university basketball team.

After sustaining injuries while playing badminton and tennis, I shifted my focus to endurance sports. Today, I enjoy long-distance cycling and open-water swimming, both of which keep me physically active and mentally refreshed.

9. Is there anything else you would like to add?

I feel fortunate to have spent nearly five decades in an industry that has given me far more than I ever expected. Watching Indian poultry grow into a modern, technology-driven sector has been deeply satisfying and rewarding.

My hope is that the industry continues to innovate, uphold quality and create opportunities for future generations. If we remain committed to learning, adapting and working together, I believe the best years of Indian poultry are still ahead.





Host by:
Dr. Ramesh Sikka
Founder Member
Anand Sikka Veterinarians Foundation (India)
+91 98909-63144 sikkaramesh44@gmail.com



Advancement in Nutrinomics for betterment in Poultry Health

CCPA group of companies' Successful Technical Seminar



The poultry industry is continuously evolving, driven by advances in nutrition, disease management, gut health, biosecurity, and sustainable production practices. Recognizing the importance of scientific knowledge and collaborative learning, **CCPA group of companies, France** had recently organized a **technical seminar on 28.08.26 (Friday)** in **Coimbatore** which is one of the biggest poultry hubs in South India bringing together leading poultry producers, veterinarians, nutritionists, and industry professionals.

The seminar provided an excellent platform for experts and industry stakeholders to exchange knowledge, discuss emerging challenges, and explore practical solutions aimed at improving poultry health, productivity, and profitability.

A Platform for Knowledge and Collaboration:

The event witnessed enthusiastic participation from major corporates, leading poultry producers and veterinarians / consultants, reflecting the industry's growing interest in science-based approaches to poultry production. The seminar focused significantly on translating the recent scientific developments and advancements in research and development of CCPA group into their practical strategies that can be implemented effectively under commercial farm conditions for the betterment of poultry farmers and producers

The technical sessions covered important aspects of CCPA and their advancements that support modern poultry production, including gut health, intestinal integrity, visceral health and about various respiratory pathogens, their differential diagnostic protocols, immunity and diagnostic tools developed by their technical wing. Specific emphasis was placed on the key strengths of CCPA and their patented technologies such as encapsulation technology and fragmentation of active ingredients from phytogetic and essential oil components that stand alone in the industry in better drug delivery systems and complete antibiotic replacement.

Bridging Science and Field-Level Challenges:

One of the key objectives of the seminar was to bridge the gap between scientific research and practical poultry farming. Speakers **Dr.Rais Rajpura, a renowned poultry consultant** and **Dr.Daniela Zajicova, Global Technical Manager of CCPA** highlighted how a better understanding of visceral health and respiratory health can contribute to improved day weight gain, flock uniformity, disease control and profitability.

Discussions also focused on the increasing importance of innovative nutritional solutions, including organic acids, essential oil components, functional feed additives, and other scientifically validated approaches that can support poultry health and productivity. The interactive nature of the sessions enabled participants to discuss real-world farm challenges and seek expert perspectives on their practical management.



Dr. Daniela Zajicova - Global Technical Manager - CCPA



Dr. Rais Rajpura - Poultry consultant

Sixty years legacy of CCPA:

The seminar featured presentation by **Mr.Jeroen Jeuken, Managing Director, CCPA Asia** who shared valuable insights about their global production facilities and recent acquisitions in various places like France, Spain, Turkey, Italy etc and about their notable R&D facilities such as Artemis laboratory where *invitro*, *invivo* and *insitu* analyses and trials are carried out mandatorily before getting a product into the field. Further, he enlightened the importance of spending huge cost and time for such facilities as it holds the real success of a product in the field in providing concrete solutions to the customers.



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Jeroen Jeuken - Managing Director, CCPA Asia



Team - CCPA Asia

From Knowledge to Action:

The technical discussions encouraged participants to look beyond individual symptoms and understand the underlying factors affecting flock performance. The importance of adopting a holistic approach - combining nutrition, management and disease prevention emphasized through the antibiotic free naturally adopted programmes.

The interaction among the experts and clients post session further enriched the event, providing an opportunity for veterinarians and poultry producers to interact directly with the speakers to about discuss specific challenges encountered in the field.

A major takeaway from the seminar was that sustainable improvement in poultry production requires continuous learning and the adoption of evidence-based practices. With changing disease patterns, increasing production costs, evolving regulatory expectations, and the need for responsible antibiotic usage, the poultry industry must continuously explore innovative and scientifically supported solutions.

Strengthening Industry Relationships:

The seminar therefore served not merely as a technical gathering but as a forum for innovation, collaboration, and practical problem-solving. Beyond the technical sessions, the event provided an opportunity for meaningful interaction among poultry professionals with technical and commercial experts of CCPA such as **Dr. Rajesh Kumar, Regional Head, ISC** and **Dr. Chandramohan, Regional Technical Head, ISC** as they have immense filed level knowledge and experience.

The enthusiastic response from participants reflected the industry's commitment to continuous improvement and its willingness to embrace new scientific approaches.

Looking Ahead

Through initiatives such as this technical seminar, CCPA continues its commitment to supporting the poultry industry with scientific knowledge, innovative solutions, and technical expertise.

The company looks forward to organizing more such knowledge-sharing platforms in the future, bringing together industry experts and poultry professionals to address emerging challenges and identify new opportunities for sustainable and profitable poultry production.



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Aflatoxicosis:

The Silent Threat in Poultry Feed

A. Tharun Goud, Maneesh Jatav, Yamini Verma,
Amita Dubey, Madhu Swamy

Introduction

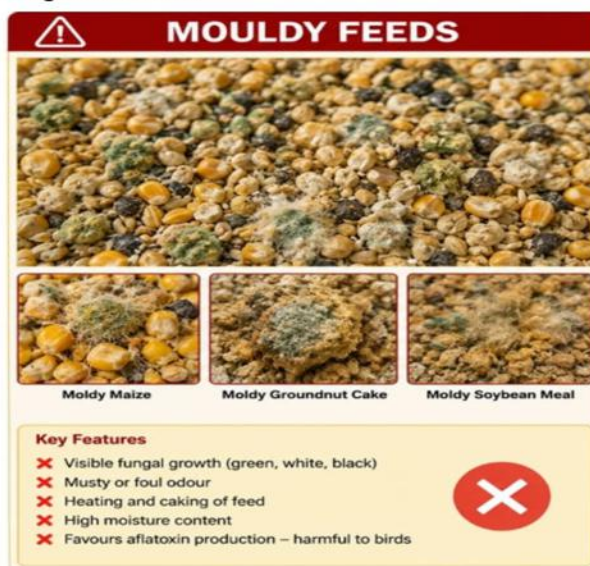
The success of poultry production largely depends on the type of food that is offered to birds. The food may be nutritionally balanced but can pose serious harm to the birds due to the presence of fungi and their associated toxins. All the mycotoxins are toxic substances produced by certain fungi during their growth on feed ingredients, but the most lethal ones are aflatoxins since they have great impact on the health of the birds, leading to low productivity and economic loss worldwide. These toxins are mostly produced by the fungi, *Aspergillus flavus* and *Aspergillus parasiticus*.

What is Aflatoxicosis?

Aflatoxicosis is a type of disease that arises when feed with aflatoxins is ingested. The aflatoxin enters the alimentary canal and is transported through blood stream until it reaches the liver, where it primarily damages it. There are different types of aflatoxins like B₁, B₂, G₁, G₂ in that B₁ is most toxic. The liver is the main target organ due to its ability to change aflatoxin B₁ into a very toxic compound (aflatoxin B₁-8,9-epoxide).

Common Sources of Aflatoxin:

The following listed feed materials are very prone to fungal infection:



- Maize
- Groundnut cake
- Cottonseed meal
- Soybean meal
- Sorghum
- Rice bran
- Peanut meal
- Sunflower cake
- Stored cereals
- Improperly dried, damaged cereals, infestation of insects, and poor warehouse conditions encourage fungal infections.

Clinical Signs:

Clinical symptoms differ depending on the amount of toxin intake and the time period for which the animal has been exposed to the toxin.

Acute Cases:

- Decreased feed intake
- Depression and lethargy
- Ruffled feathers
- Diarrhoea
- Anaemia
- Yellow discoloration of the comb and wattles
- Sudden increase in mortality

Chronic Cases

- Reduced weight gain
- Low feed conversion efficiency
- Uneven flock development
- Decreased egg production
- Disease outbreak
- Reduced fertility and hatchability
- Immunosuppression which leads to vaccine failure and increases in secondary bacterial and viral infections

Effects on Internal Organs

- The liver is the most severely affected organ.
- **lesions include:**
- Enlarged, pale-yellow liver
- Fatty liver
- Petechial haemorrhages on liver
- Enlarged gall bladder
- Enlarged kidneys
- Atrophy of the bursa of Fabricius and thymus
- In lungs multiple nodules are noticed or pneumonia

Under microscopic examination, liver cells exhibit fatty changes, hepatocyte vacuolation necrosis, and fibrosis (chronic cases) and bile duct proliferation, whereas lymphoid organs become depleted, leading to immunosuppression.

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Economic Impact

Aflatoxicosis causes heavy financial losses through:

- Slow growth
- Poor feed conversion efficiency
- Increased mortality
- High medication costs
- Reduced broiler performance
- Decreased egg production
- Poor hatchability
- Increased culling
- Increased carcass condemnation
- Even low levels of aflatoxin can reduce profitability if exposure continues for a prolonged period.

Diagnosis:

- History
- Clinical signs
- Post-mortem lesions
- Feed analysis for aflatoxins
- Histopathology

Treatment: There is no antidote only supportive therapy by:

- Remove contaminated feed immediately
- Provide fresh balanced feed
- Vitamin E supplementation
- Selenium supplementation
- Liver tonics
- Mycotoxin binders
- Adequate hydration

Prevention is Better than Cure

Treatment of aflatoxicosis is often unsatisfactory. Therefore, prevention remains the best strategy.

1. **Purchase Quality Feed:** Buy feed and raw materials only from reliable suppliers.
2. **Proper Storage :** Store feed in clean, dry and well-ventilated rooms.
 - Prevent water leakage.
 - Keep moisture levels below 12-13%.
 - Relative humidity below 70%
 - Good ventilation
 - Use pallets
 - Avoid direct floor storage
 - Follow the “first in, first out” principle.
3. **Control Fungal Growth:** Dry grains thoroughly before storage and avoid insect damage.

A. Use Mycotoxin Binders: Incorporate approved toxin binders such as hydrated sodium calcium aluminosilicate (HSCAS), bentonite or yeast-based binders as recommended.

B. Antioxidant Supplementation: Supplement antioxidants such as vitamin E and selenium when there is a risk of aflatoxin exposure to reduce oxidative damage.

C. Biological and Natural Control: It has become a potentially effective and ecofriendly means for reducing aflatoxins. Useful microbes like *Lactobacillus*, *Bacillus*, and *Saccharomyces cerevisiae* bind or break down aflatoxins; thus, preventing their absorption. Apart from that, some plants particularly turmeric naturally have antifungal and antioxidative qualities which prevent the growth of *Aspergillus flavus*, aflatoxin production, and also protect the liver. Some other phytochemical additives like garlic, oregano, and neem have also proven to be effective in this regard. **Regular Feed Testing:** Periodic laboratory testing of feed helps detect contamination before serious losses occur.

D. Regular Feed Testing: Periodic laboratory testing of feed helps detect contamination before serious losses occur.

Take-Home Message

Aflatoxicosis is a preventable disease that continues to threaten poultry production worldwide. Good feed management, proper storage, routine monitoring and the use of appropriate mycotoxin control measures can effectively reduce the risk of aflatoxin contamination. Early prevention not only protects bird health but also improves productivity, profitability and the overall sustainability of poultry farming.

Did You Know?

- Even invisible fungal contamination may contain dangerous aflatoxin levels.
- Aflatoxin B₁ is the most toxic naturally occurring aflatoxin.

- The liver is the primary organ damaged by aflatoxins.
- Proper feed storage is the first line of defence against aflatoxicosis.
- Prevention is far more economical than treating affected flocks.

A. Tharun Goud, Maneesh Jatav, Yamini Verma, Amita Dubey, Madhu Swamy

Department of Veterinary Pathology, College of Veterinary Science and A.H., NDVSU, Jabalpur (M.P)



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Techno Commercial Hybrid Seminar

Edition V, Namakkal: Antibiotics Free & EC shed updates



Regen Biocorps AHI Pvt. Ltd. participated as the Platinum Sponsor at the 5th Techno Commercial Hybrid Seminar (TCHS - Edition V), held on 12 August 2026 at Hotel D'Front Golden Palace, Namakkal. Organised by S.S. Agrowtech, the programme brought together poultry farmers, veterinarians, consultants, nutritionists, and other industry stakeholders for technical discussions focused on the future of poultry production.

The seminar followed a practical and interactive format, combining technical presentations, expert interactions, farmer discussions, and a question-and-answer session. This farmer-centric approach is also reflected in Regen Biocorps' earlier field programmes, where technical knowledge is combined with practical product guidance and direct interaction with poultry farmers.

Namakkal is one of India's leading poultry and egg-production hubs, with around 1,100-1,200 poultry farms, more than 8 crore birds, and production of nearly 6 crore eggs every day; of these, approximately 75 lakhs to 1 crore eggs are exported daily, primarily to Gulf markets such as the UAE, Qatar, Oman, Kuwait, and Bahrain, along with other international destinations. This enormous production and export base makes Namakkal a critical centre for discussions on flock health, productivity, food safety, responsible antimicrobial use, and sustainable poultry production.

Recent disruptions to Gulf exports, which affected exports of around 80 lakh eggs per day and contributed to significant financial losses for farmers, further demonstrated how closely Namakkal's poultry economy is connected to international markets. For a poultry ecosystem of this scale, the shift toward antibiotic-conscious and preventive flock-health management is therefore not only a health consideration but also an important factor in protecting farm profitability, market

access, and the long-term competitiveness of Indian poultry.

A Sector at an Important Transition

The central discussions at TCHS Edition V highlighted the growing need to balance flock health, productivity, profitability, and responsible antimicrobial use.

The transition toward reduced and responsible antibiotic use cannot depend on a single product or intervention. It requires a coordinated approach involving gut health, immunity, nutrition, disease prevention, biosecurity, environmental management, and appropriate farm practices.

Spotlight on Antibiotic-Free Poultry Production

A key technical focus of TCHS Edition V was antibiotic-free poultry production and the practical measures that can help farmers maintain flock performance while reducing dependence on routine antibiotic interventions.

The discussions highlighted the importance of essential oils, phytogenics, symbiotics, immunity support, nutrition, and preventive flock-health strategies. The was not simply to replace antibiotics with another product, but to strengthen the overall health status of the flock so that disease pressure can be managed proactively.

For farmers, the emphasis remained on solutions that can be incorporated into practical farm programmes while maintaining bird health, performance, and economic viability.

Regen Biocorps Showcases Its AAT Portfolio

Regen Biocorps presented its Antibiotic Alternative Therapy (AAT) portfolio, linking its solutions with the broader objective of sustainable and responsible poultry production.



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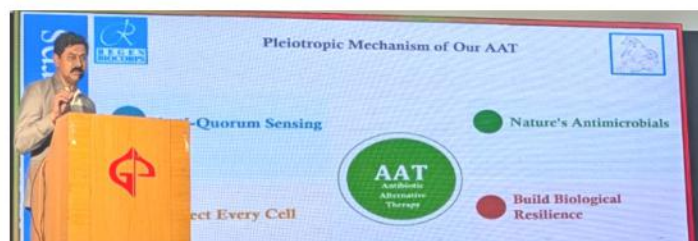
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The showcased portfolio included **IMMON** for immune support, **CRDX-IR** for respiratory health support, **GUTSOL** for gut health and performance, **HEPATOTOX-ES** for liver support, **THERMOGARD** for heat-stress management & **COLIKIL-R** for *E. coli* management.

The product interactions also created an opportunity for direct farmer engagement, allowing the Regen Biocorps team to understand field-level concerns and explain practical product usage and management strategies.

Regen Biocorps Team on Ground

The delegation included **Mr. Pawan Kumar Mudgil** (CEO & Founder), **Mr. Pankaj Hastwala** (VP - Sales & Marketing), **Dr. Uttam Pal** (Technical Consultant), **Dr. Yeshwant Uttarwar** (Sales Manager - West & South), **Dr. Hardik Patel** (Assistant Technical Manager), **Dr. M. Sai Kumar Reddy** (Techno Commercial Manager), **Mr. Sundararaja Prabu R** (Regional Sales Manager), **Mr. Balaji Kannan** (Sr. Area Sales Manager), and **Mr. Sai Kiran** (Sales Executive).



For farmers seeking reliable solutions for immunity, gut health, mycotoxin management, respiratory health, stress management, and antibiotic-free poultry production, **Shri Pranav Nutrients, Namakkal**, is an authorised distributor of the complete **Regen Biocorps** product portfolio, providing comprehensive technical and product support to poultry farmers across the region.

The participation of leadership, technical experts, and the regional sales team enabled the company to engage directly with farmers and industry professionals throughout the seminar.

Recognition on Stage

An important moment during the event was the formal felicitation of **Regen Biocorps** by the **S.S. Agrowtech leadership team**. A commemorative shield was presented to the company in recognition of its **Platinum Sponsorship of TCHS Edition-5**.

Regen Biocorps also expresses its appreciation to **Mr. S. Rex Christi Raj** and the **S.S. Agrowtech** team for their support and coordination in making **TCHS- Edition V** a meaningful industry platform.



Regen Biocorps sincerely extends its heartfelt gratitude to all the **farmers, veterinarians, poultry consultants, nutritionists, industry professionals, delegates, and participants** who took the time to attend **Techno Commercial Hybrid Seminar -Edition V** at Namakkal.



A Shared Commitment to Sustainable Poultry

Regen Biocorps' participation in **TCHS Edition V** represented more than a sponsorship presence. It provided a platform to engage with one of India's major poultry communities and reaffirm the company's commitment to **practical, science-led, and farm-oriented solutions**.

As poultry production continues to evolve, long-term success will depend on integrated flock-health programmes that protect animal health while maintaining productivity and profitability. **Regen Biocorps** remains committed to supporting this transition through **Antibiotic Alternative Therapy, technical education, farmer engagement, and field-level support**.

The seminar closed with a comprehensive report from **Dr. Chandrasekhar**, reinforcing the value of integrated, evidence-based strategies for the industry's continued growth - a vision **Regen Biocorps** remains committed to supporting, one flock at a time

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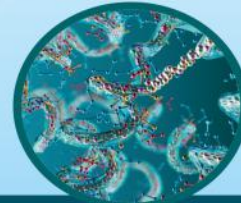
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Glimpses of Superannuation Party

hosted by Dr Parminder Singh, former ADEE, GADVASU



Dr Parminder Singh who recently retired on 31.08.2026 as Additional Director of Extension Education, Guru Angad Dev Veterinary & Animal Sciences University, Ludhiana; hosted a get together on 02.09.2026 evening. In this gathering all types of stake holders participated be it scientists from both universities i.e. GADVAS & PAU, dairy, poultry, goat and pig farmers, feed mill entrepreneurs, feed additives and pharmaceutical representatives and his school and college mates.

Dr Parminder thanked everyone for gracing the occasion with their presence, warm wishes and heartfelt words for making the evening memorable. He also acknowledged support, encouragement and beautiful memories of each one during his 33 yearlong illustrious careers.

Many visitors spoke highly of Dr Parminder during the party. Some of comments are as follows:

- I have double relation with Dr Parminder. 1st he is from same school from where I studied. He was two years junior to me, very good in studies and sports. Later he became my colleague in the university, did some excellent field work with him especially survey of resistance of antibiotics in poultry and its associated workers. Now I find him a silent worker who keeps doing his job meticulously without demanding anything. I wish him great time ahead.

Dr JPS Gill, Vice Chancellor, GADVASU

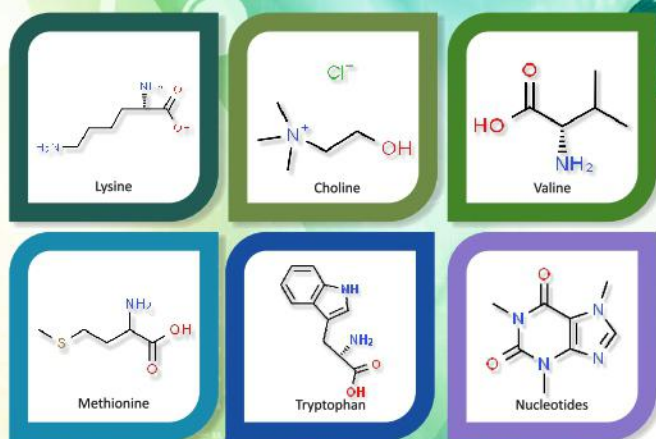
- On the occasion of your retirement, we would like to express our sincere gratitude for the guidance, encouragement and support you have extended to us over the years. Your knowledge and dedication have

contributed immensely to our journey in poultry farming. From generously sharing your expertise through training and guidance, to supporting and encouraging us in achieving recognition at the State level, your contribution has been truly invaluable. As you begin new chapter of life, we wish you good health, happiness and fulfilling years ahead.

Kang Poultry Farm, Samrala, Ludhiana

- Your contribution to the field of animal nutrition is a testament to your passion, patience & perseverance. Many people seek inspiration from you! Best wishes for journey ahead.

Prag Pental, Sr. Manager,
Kamadhenu Nutrients Pvt. Ltd.



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.

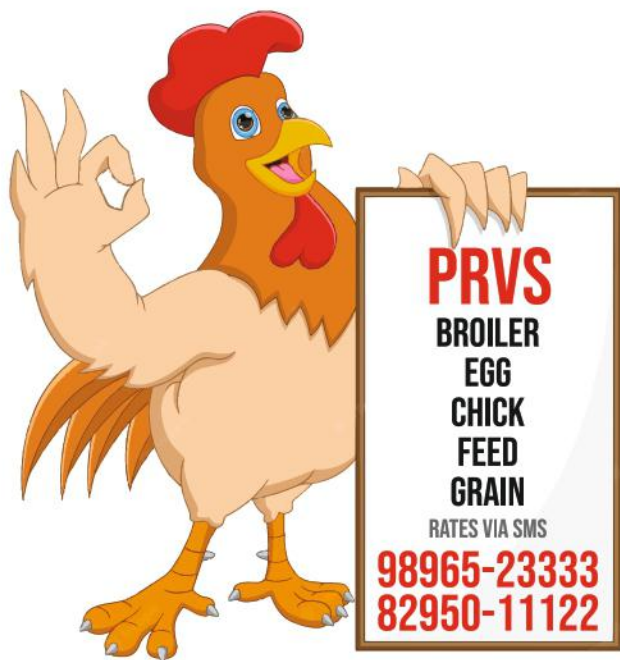
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VIV Select China 2026 Closes with Record Growth and Stronger Global Trade Ties

A record-breaking edition sets the stage for Shanghai's growing role in global livestock trade

Organized by Globus Events and VNU Europe, VIV Select China 2026 concluded successfully at the Shanghai World Expo Exhibition & Convention Center (SWECC) on August 19-21. Backed by the global network of VIV Worldwide, the event brought together leading industry resources, cutting-edge technology, and cross-border trade channels from around the world, creating a premier platform for China's livestock export industry.

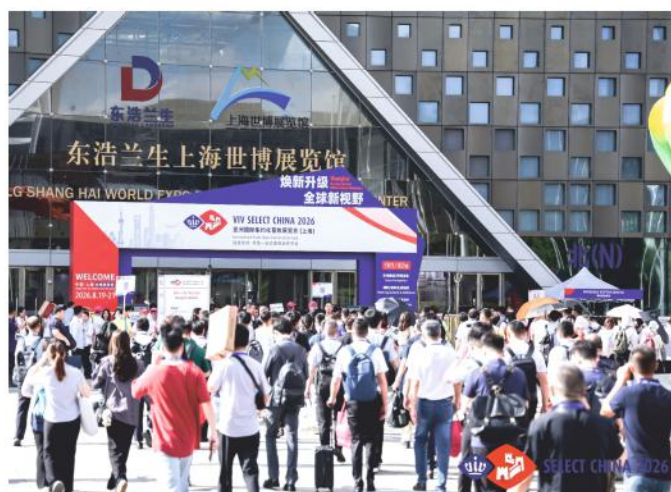
This year's show set a new scale record, covering 50,000 square meters and drawing 550 exhibitors from 20 countries and regions, a 36.7% year-on-year increase. Exhibitors included companies from the Netherlands, the United States, Denmark, France, Brazil, Germany, Italy, Turkey, South Korea, Malaysia, and India, showcasing solutions in digital aquaculture, low-carbon farming, biosafety, and nutrition optimization.

Professional visitor attendance reached 20,300 from 113 countries and regions, with overseas visitors tripling year-on-year, a clear boost to the show's international reach and influence.

Spanning the entire industry chain, the show paired a broad range of products with forward-looking concurrent events. Over three days, domestic and international professionals connected for efficient trade matchmaking, with lively on-site negotiations sparking a new wave of cooperation across the global livestock industry.

Innovation Zone Spotlights Smart Livestock and Aquaculture Tech

VIV Select China 2026 introduced a dedicated innovation zone showcasing how the industry is upgrading in practice. The newly expanded "V-AI + Smart Animal Husbandry" area brought together more than 15 global leaders in smart farming technology, demonstrating real-world applications, from integrated big-data platforms and intelligent feeding to environmental monitoring and inspection robots. Together, these presentations offered overseas markets a working model for digital transformation in animal husbandry.



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The show also debuted a new Aquatic Breeding Zone, built around the "Blue Granary" concept. It covered the full aquaculture chain, including smart controls, environmental monitoring, recirculating water systems, disease prevention, and sustainable feed, with a dedicated visitor route connecting buyers directly to this fast-growing segment of the industry.

Connecting Global Buyers and Sellers

Overseas participation grew sharply this year, spanning key trade regions across Southeast Asia, Europe, the Middle East, Africa, and the Americas. More than 20 domestic and international industry associations organized buyer groups, and on-site negotiations were brisk, clear evidence of strong global demand for Chinese livestock products and technology.

The flagship V-Match program drove much of this activity, connecting 745 exhibitor representatives with 94 buyers from countries including Vietnam, India, Pakistan, Thailand, Malaysia, Indonesia, Bangladesh, Turkey, Egypt, Brazil, the United States, and Poland, over two days of one-on-one meetings covering product customization, certification, regional agency agreements, and supply solutions.

Feisal Paruk, Managing Director of ABD Poultry Pty Ltd (Australia), remarked, "I am so glad to be here, and I think VIV Select China is absolutely amazing! It has been a very productive and busy morning. The best part is that potential suppliers come directly to you, saving you from roaming around the exhibition floor aimlessly. For serious buyers who are looking to expand their operations, V-Match puts you directly in front of the right suppliers, which is exactly what we need."

Business matching exceeded expectations, driving high rebook rates among core exhibitors, many of whom confirmed their 2027 plans on site. Rebooking exhibitors spanned feed and feed-milling technology, animal health, farm production, and industry-chain services, and included: Shanghai Menon Animal Nutrition Technology Co., Ltd; Zhejiang Medicine Co., Ltd; Meihua Group International Trading (Hong Kong) Limited; Weifang Adeasy Bio-Technology Co., Ltd; Ningxia Eppen Biotech Co., Ltd; Jinan Guangshengyuan Biotechnology Co., Ltd; Hebei Kexing Pharmaceutical Co., Ltd; Shangqiu Melan Biological, Inc.; Big Herdsman; Guangzhou Guangxing Poultry Equipment Group Co., Ltd; Little Giant Animal Husbandry Equipment Co., Ltd; Jiangsu Huali Intelligent Technology Co., Ltd; Shenzhen Zenyer Egg Machinery Co.,

Ltd; Jiangsu Zhengchang Cereal and Feed Machinery Co., Ltd; Shanghai Zhengyi Machinery Engineering Technology Manufacturing Co., Ltd; China Animal Husbandry Industry Co., Ltd; and Famsun Co., Ltd.

These results reflect not only the success of the matching program but also the trust global customers place in VIV Select China, reinforcing Shanghai's strategic role as a cross-border hub for the animal husbandry industry.

AI Takes Center Stage at the 8th VIV International Summit

The summit brought together global industry leaders, experts, and China-based agricultural agency representatives. Keynote speakers included Jeroen van Hooff, President and CEO of Royal Dutch Jaarbeurs; Nan-Dirk Mulder, Senior Global Animal Protein Expert at Rabobank; and Rifki Weno, Senior Advisor at Indonesia's Ministry of Marine Affairs and Fisheries (KKP).

More than a dozen industry and academic leaders also presented on key topics such as AI and robotics in practice, breakthroughs in agricultural large language models, sustainable production, global supply chain shifts, and emerging market opportunities. Sessions drew full houses, showing strong industry momentum and growing global collaboration around livestock resources.

Looking Ahead

Jeroen van Hooff, President and CEO of Royal Dutch Jaarbeurs, enthusiastically shared, "We're already expanding our floor plan to give more exhibitors the chance to showcase their innovation and technology. Our purpose within the VIV Worldwide network is to connect Chinese entrepreneurs with international buyers and show China to the rest of the world. We're proud that in this first Shanghai edition, we've already grown the show by more than 50 percent, and next year, we'll bring an even bigger show. We're confident Shanghai will welcome even more participation in 2027."

This year's successful conclusion marks a milestone in the internationalization of China's animal husbandry industry and confirms Shanghai's place as a central global hub for the sector. By connecting cross-border trade, technology, and industry ecosystems, VIV Select China continues to build a bridge for global cooperation. Looking ahead, the show will keep developing Shanghai as a strategic base, drawing in global resources and helping China's animal husbandry industry integrate further into the world market, together with industry partners, toward a more sustainable future.



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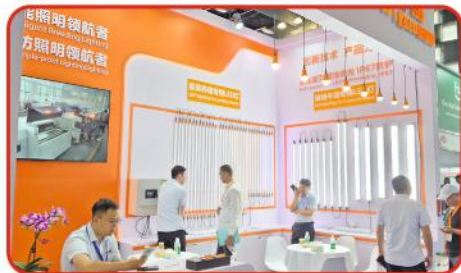
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Soy Connex 2026 Strengthens Global Collaboration for Sustainable Food & Feed Security - Ricky Thaper (www.rickythaper.com)



The U.S. Soybean Export Council (USSEC) organised Soy Connex 2026 at the Hyatt Regency, Chicago, bringing together more than 800 participants from 60 plus countries around the globe from animal nutrition, feed, food and agribusiness sectors. The flagship summit provided an important platform for international collaboration, market intelligence, sustainability, innovation and discussions on strengthening global food, feed and nutritional security.

The program also included interactions with U.S. soybean growers, farm visits in Illinois and States, USA, the Soy Excellence Center (SEC) 2026 Top Achiever Recognition Award Ceremony, a Risk Management and Market Awareness Workshop and a technical visit to Kent Feed Mills, Iowa State University.

As part of the program, the delegation visited Jeff O'Conner Farm in Illinois State and interacted with Mr. Jeff O'Conner, a sixth-generation soybean grower and Board Director of the Illinois Soybean Association.



The visit provided valuable insights into sustainable soybean production, advanced genetics, precision agriculture, technology adoption and environmental stewardship. Interactions with members of the Illinois Soybean Association during the Illinois Soy Reception further highlighted the importance of farmer-led institutions, strategic planning and public-private partnerships in developing a resilient soybean value chain.

The Soy Excellence Center (SEC) 2026 Top Achiever Recognition Award Ceremony was another important highlight. Ms. Anne Meis, Chair, SEC Global Advisory Panel (GAP) welcomed participants, followed by remarks from Mr. Brent Swart, SEC GAP Secretary, and Mr. Mike McCranie, USSEC Chair.



A proud moment for India came when Dr. Vijay Anand E. Pilli, Center Lead, Soy Excellence Center-India, highlighted the achievements of the SEC -India. The STAR Award was presented to Dr. Pragati Salutgi in recognition of her outstanding contribution. Mr. Jim Sutter, CEO, USSEC appreciated the contributions of SEC Global Advisory Panel and Regional Advisory Council Members.

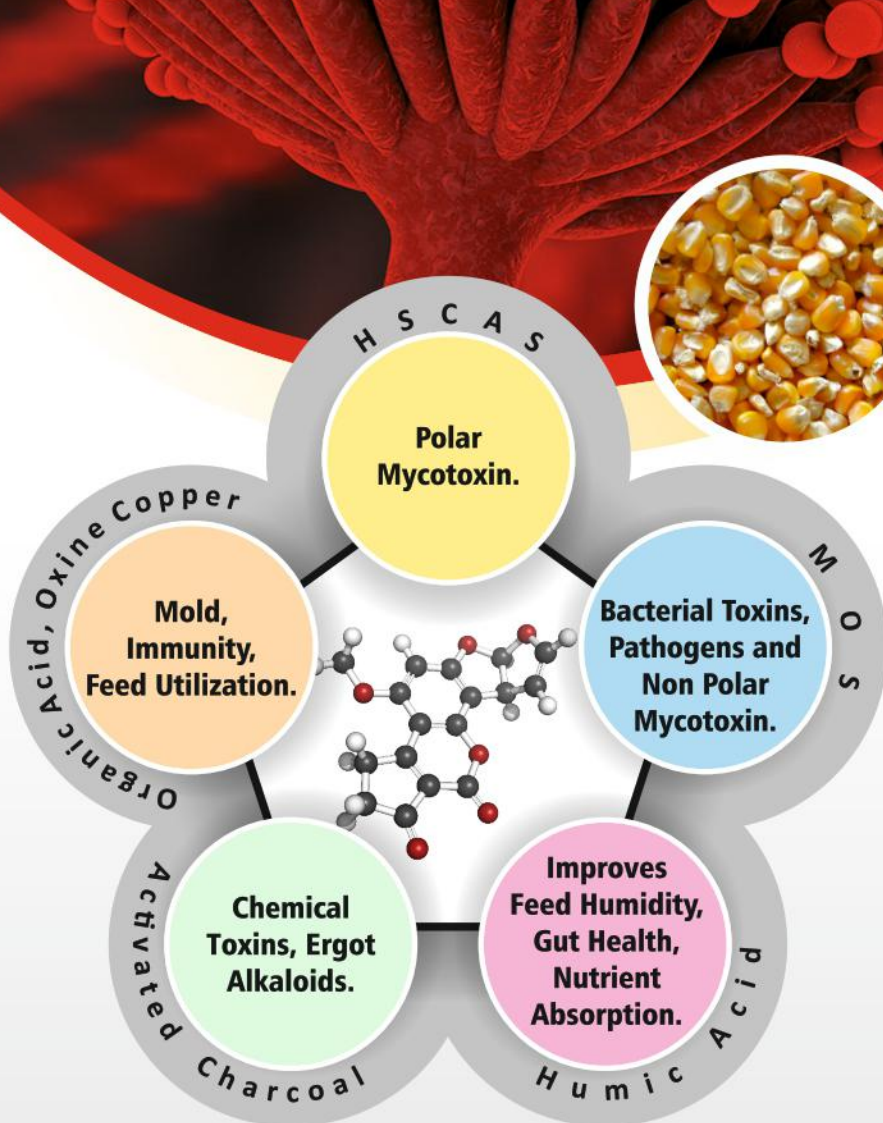


During a special media interaction attended by more than 20 international journalists, Mr. Mike McCranie, Chair, USSEC Board of Directors shared the perspective of U.S. soybean farmers and while reflecting on life as a soybean farmer, he shared a powerful thought "We love to produce crops and watch them grow. But what we really love is seeing our crops feed people around the world. That is, without question, the most gratifying part of being a farmer." His words beautifully captured the true purpose of agriculture—feeding the world.



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Mr. Jim Sutter, CEO, USSEC, emphasized that Soy Connex 2026 with 800 plus registrations is more than a conference—it is a global platform for collaboration, innovation and sharing scientific insights. Mr. Sutter highlighted that U.S. Soy combines superior feed performance, verified sustainability and a highly reliable supply chain, positioning it to meet the world's growing demand for protein. With global soybean import demand projected to rise significantly and a record U.S. soybean crop expected this year, the outlook for U.S. Soy remains exceptionally strong. Mr. Jim Sutter added U.S. Soy supply chain is backed by highway, rail, river and barge logistics that buffer supply when a buyer needs it, we deliver it. The world needs more protein and more oil for decades to come and U.S. Soy delivers both reliably, sustainably and at a value buyers can trust.



Post Media interaction, I had insightful discussions with Mr. Kevin Roepke, Executive Director, USSEC - Middle East, North Africa & South Asia (MENASA), highlighted that SoyConnex2026 once again demonstrated U.S. Soy leadership in enabling sustainable food and feed systems worldwide. Mr. Kevin Roepke added Soy Connex has established itself as the world's premier globally recognized soy event. Every year, it gets bigger and better and we are proud to see that this year we had over 800 participants join us from across the world. Apart from the stellar agenda and amazing speaker line-up, this conference also gives us the opportunity to network with the industry veterans, customers, U.S. soybean farmers, USSEC members and more. It represents what USSEC stands for: strengthening partnerships, fostering relations and building a preference for U.S. Soy across the world. These in person engagements build trust, emphasize the importance of supply chain resilience. Insatiable demand for both protein and oil is setting an exciting stage for the conversations and discussions being held. To that end, U.S. Soy plays a pivotal role in improving nutrition security across the world, while doing so in an environmentally sustainable and responsible manner.

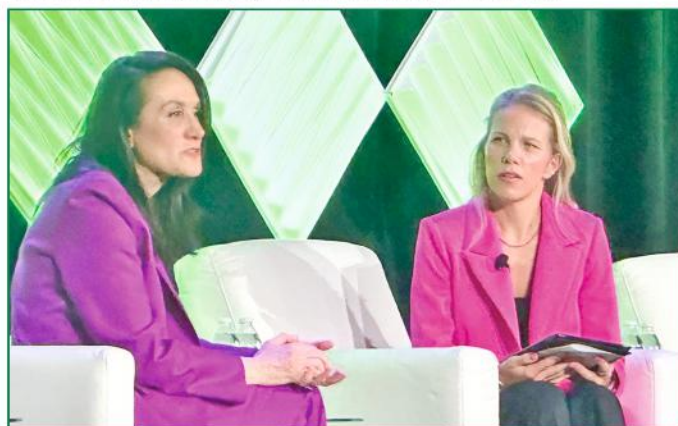
Mr. Franklin Manuel, Country Lead-India, USSEC described the engagement as a truly rewarding experience, emphasizing that the high-level interactions strengthened understanding and relationships across the U.S.-India soy value chain. The discussions opened new

avenues for trade, innovation, sustainability and market development, while creating a stronger foundation for future soy cooperation and advocacy.

During networking reception my discussions with farmer leaders from American Soybean Association (ASA), United Soybean Board (USB) and U.S. Soybean Export Council (USSEC), reinforced one key message: international collaboration is essential to building resilient, sustainable and nutrition-focused food systems.

Global Leaders Share Perspectives on the Future of Soy during Soy Connex 2026 Conference

Soy Connex 2026 - Where Bright Minds Connect, commenced with welcome and opening remarks by Mr. Mike McCranie, Chair, USSEC Board of Directors.

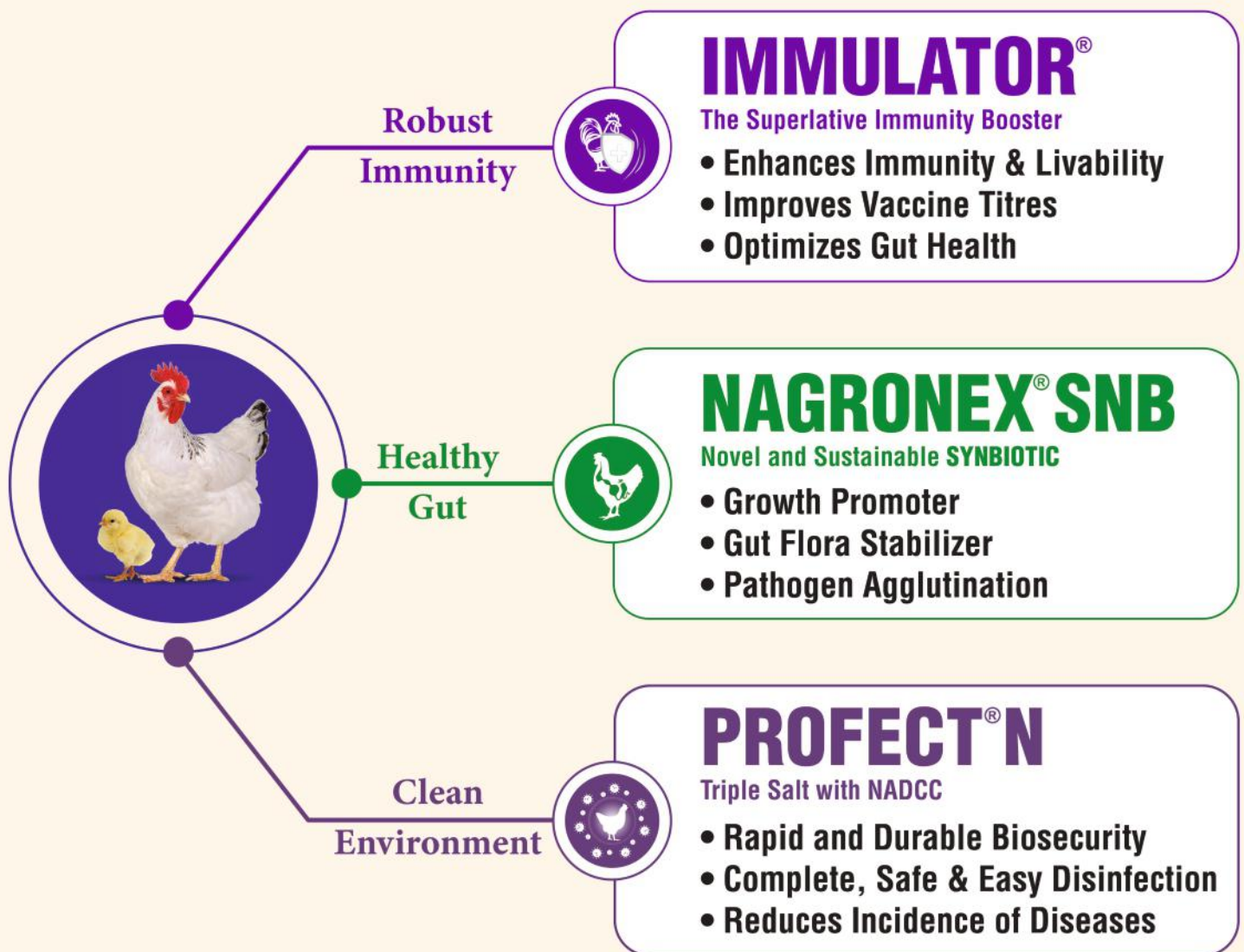


Ms. Colby P., Executive Director, International Strategy, USSEC, introduced Ms. Michelle Caruso-Cabrera, CEO, MCC Global Enterprises, CNBC Contributor, who spoke on "Global Forces at Play: Geopolitics, Trade & the Future of Soy." Mr. Tanner Ehmke, Lead Economist, CoBank, presented "The Global Soy Outlook: Supply, Demand & Market Signals." A panel on "How It's Growing: Inside the 2026 U.S. Soy Crop" featured Mr. Mike McCranie; Mr. Randy Miller, Director, USSEC; Mr. J. L. Scott Metzger, President, American Soybean Association; and Mr. Brent Gattton, Chair, United Soybean Board.





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On the last day of Soy Connex 2026, Mr. Daniel Whitley, Administrator, Foreign Agricultural Service, USDA, addressed the delegates, followed by Mr. Juan Luciano, CEO, ADM, who highlighted the importance of an integrated soy value chain covering origination, processing, logistics and merchandising. This was followed by break-out session and there were insightful presentations from other distinguished leaders across the global soy value chain.



The summit concluded with remarks by Mr. Jim Sutter, CEO, USSEC, who emphasised the value of bringing U.S. soybean farmers, processors, traders, agribusinesses and international trade teams together to exchange knowledge and explore new opportunities.



Mr. Sutter said attendees will depart with a clear perspective on the opportunities ahead and a look forward to what's next. Mr. Sutter announced that Soy Connex 2027 will be held in New York, USA, from August 16-18, 2027.



Post conference, the delegation visited Grubbs Lands & Cattle Farm in Iowa State, and had good interaction with Mr. Brock Grubbs, a sixth-generation farmer producing soybean and corn across approximately 4,200 acres. The visit provided insights into precision agriculture, advanced genetics, technology and sustainable farming. Ms. Karen Long, Project Coordinator, Iowa Soybean Association, briefed the delegation on farming and sustainability practices.



Later the Trade Team visited the Kent Feed Mill and Grain Science Complex at Iowa State University, a modern facility integrating education, research, analytical laboratories and pilot-scale feed manufacturing. Dr. Dirk Maier, Professor and Director, Kent Feed Mill and Grain Science Complex, Dr. Camille Schroeder, Associate Director and Mr. A S M Yunus Bhuiyan Sabbir, Assistant Manager of Grain Center, briefed the delegation on advancements in feed technology, grain science, research and industry-academia collaboration.

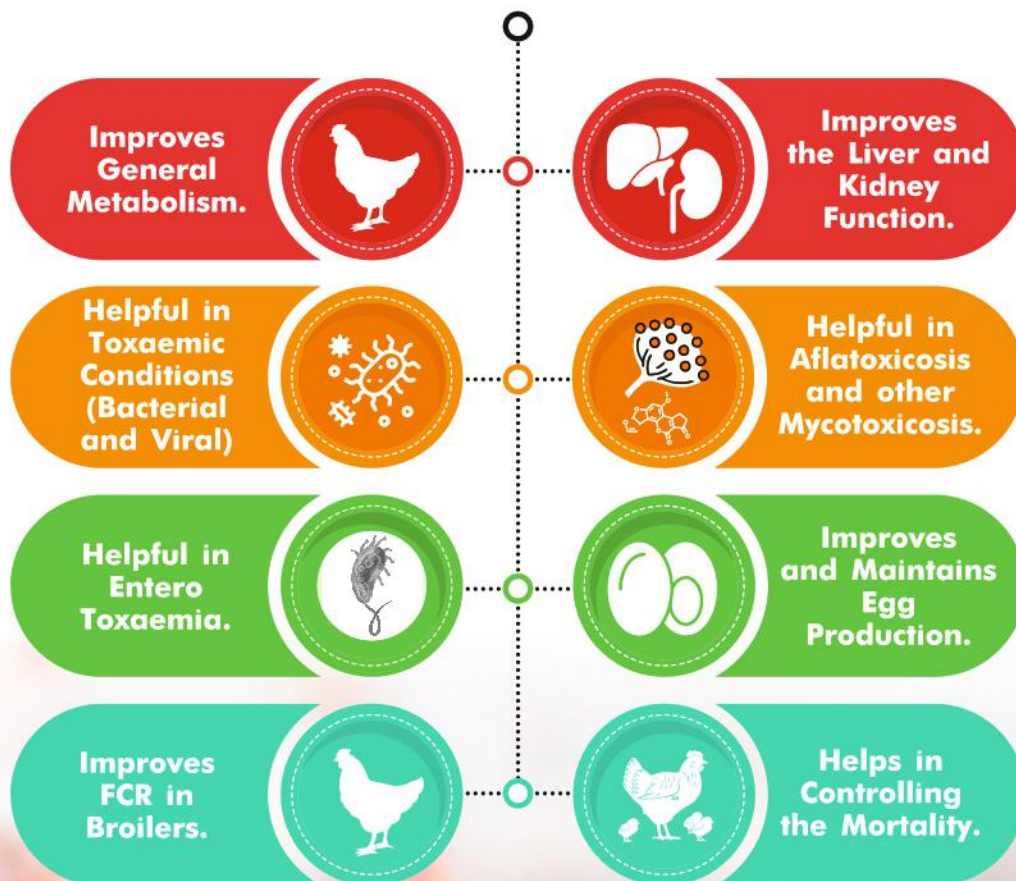
Thanks to Mr. Kevin Roepke, Executive Director (MENASA), U.S. Soybean Export Council, Mr. Franklin Manuel, Country Team Lead - India, USSEC Ms. Deebea Giannoulis, Regional Food and Nutritional Security & Trade Strategy Leader-MENASA, USSEC, Ms. Hibah Ameer, Regional Communications Lead-MENASA, USSEC, Dr. Vijay Anand E. Pilli, Center Lead, Soy Excellence Center - SEC India, Dr. Ashesh Bhattarai, Market Lead-Nepal, Mr. Saram Bokhari, Country Market Lead-Pakistan, Mr. KhaBiBur Rahman, Country Market Lead-Bangladesh, Dr. Khurram Shahbaz, Regional Special Projects Facilitator, South Asia, Ms. Nikita Sharma, PMP, Ms. Dhanu Basavraj, Mr. Tara Singh Rawat and all other members of the USSEC team for organizing this highly educational and informative program and for providing members of the MENASA Trade Team with this valuable learning opportunity. Initiatives like these play a vital role in enhancing industry knowledge, strengthening international partnerships and fostering sustainable growth across the global food and feed sectors.

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Nanoparticles: A Promising Approach to Reduce Antibiotic Dependence in Poultry Production

Komal Mishra, Simmi Tomar,
Buddhe Lokesh Shrikisan, Shubham Dabi

Introduction

Meeting global nutritional demands requires a significant increase in animal protein production, with poultry meat and eggs serving as the main drivers to bridge this food security gap. Official Animal Husbandry Statistics highlight this remarkable expansion, ranking India second globally in egg production with an annual output reaching 149.11 billion eggs, where commercial farms contribute over 84% of the total output. Similarly, national meat production has risen to 10.50 million tonnes, with poultry contributing nearly half of that total (5.18 million tonnes).

The growth of poultry production has also increased the importance of maintaining flock health. Birds kept in intensive production systems live in close contact with one another, which can favour the spread of bacterial, viral and fungal infections. Antimicrobials have been widely used to treat and prevent bacterial diseases in poultry, and their use as growth promoters has also been reported in some production systems. Excessive and inappropriate use of these drugs has contributed to antimicrobial resistance (AMR) and has raised concerns about antimicrobial residues in meat and eggs.

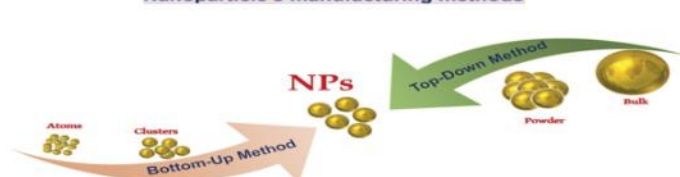
Faced with stricter government bans on routine antibiotics and growing consumer demand for drug-free food, producers urgently need modern solutions. This is where nanotechnology steps in. By engineering materials at the nanoscale between 1 and 100 nanometers we alter their fundamental physical and biological behaviour. Their small size gives them a large surface area, which can increase their interaction with microbial cells and influence their antimicrobial activity. At this scale, particles do not rely on fragile chemical pathways; instead, they destroy pathogens through direct physical mechanisms that prevent bacteria from developing resistance, all while delivering essential minerals straight to host tissues with far higher efficiency.

Nanoparticles and its production

Nanoparticle synthesis follows two primary pathways: top-down physical breakdown and bottom-up chemical assembly. Top-down methods break bulk solids into nanoscale fragments using mechanical shear or thermal energy. Bottom-up approaches cluster individual atoms or molecules into structured nanoparticles.

Approach	How it works	Typical processes
Top-down	Bulk materials are broken down into nanosized particles	Milling, grinding (physical processes)
Bottom-up	Nanoparticles form by assembling atoms or molecules	Chemical or biological reactions (Green Synthesis)

Nanoparticle's manufacturing methods



(source-Shaalan *et al.* 2016)

While physical top-down methods require high energy and yield non-uniform particles, standard bottom-up chemical reduction uses harsh solvents that leave toxic surface residues. To solve this, **green synthesis** replaces synthetic chemicals with natural plant extracts (e.g., neem, green tea) or microbial enzymes. Phytochemicals like flavonoids and polyphenols act as natural reducing and capping agents, producing biocompatible, eco-friendly nanoparticles safe for livestock and poultry consumption.

Types of nanoparticles and how they work

Once nanoparticles are synthesised, whether by milling, chemical assembly, or green synthesis, the next question is which type to deploy. Several types of nanoparticles are being investigated for poultry health and production. Their properties vary according to their composition, size and surface characteristics, which also influence their biological effects.

Type	Examples	Primary role
Metallic and its oxide	Silver, copper, gold, Zinc oxide, titanium dioxide, copper oxide	Strong, broad-spectrum antimicrobial effects
Polymeric	Chitosan-based (carrier)	Drug delivery and controlled release of antimicrobial compounds
Lipid-based	Liposomes, solid lipid nanoparticles	Improved stability, absorption, and targeted delivery of bioactive agents
Nanoemulsions	Fine dispersions	Efficient delivery of essential oils and natural antimicrobials

Among these, metallic nanoparticles especially silver and zinc oxide are frequently reported for broad-spectrum antimicrobial activity against important poultry pathogens.

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- Aids in detoxification and prevents liver damage.
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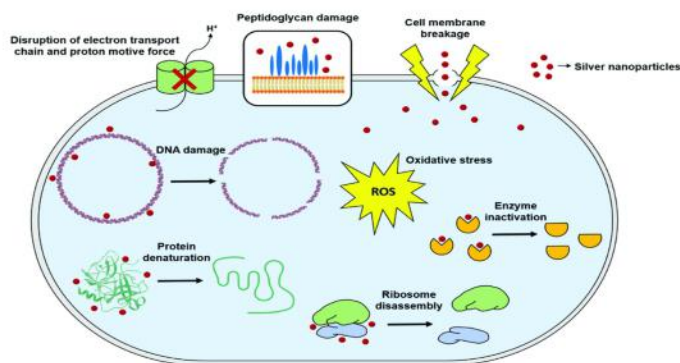
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(source -Irache *et al.*, 2011)

Nanoparticles can affect microorganisms through several mechanisms at the same time which will reduce the chances of developing resistance. Silver nanoparticles, for example, can interact with the bacterial cell membrane, disturb membrane integrity and interfere with electron transport. They may also generate reactive oxygen species (ROS), damage proteins and DNA, inhibit enzymes and interfere with ribosomal function. The combined effects can ultimately impair essential cellular processes and lead to bacterial death.

Practical applications in Poultry Production

Nanoparticles is finding possible uses at different stages of poultry production. These include nutrition and gut health, disease control, farm hygiene and protection of poultry products after processing.

Internal Protection: Feed, Gut Health and Nanobiotics

- **Nutritional additives and gut health:** Nano-sized minerals such as zinc, selenium and copper are being studied for their role in improving nutrient utilisation and maintaining gut health. Recent studies in broilers have reported encouraging results with nano-selenium and zinc nanoparticles. Chitosan nanoparticles are also being investigated because of their antimicrobial properties and possible benefits for intestinal health.
- **Nanobiotics and nutrient delivery:** Silver, zinc oxide and other nanoparticles have shown activity against poultry pathogens such as *Salmonella*, *E. coli* and *Clostridium perfringens*. Their ability to interact with microbial cells has led to interest in their use as an additional tool for disease control. Some nano-mineral products are already available commercially. **NanoSel**, a nano-selenium supplement, and **TocoSel-N**, which combines nano-selenium with vitamin E, are marketed for poultry nutrition.

External Protection: Farm Hygiene and Food Safety

- **Farm hygiene:** Nanoparticles are also being explored for use in surface coatings, disinfectants and poultry-house equipment. Their antimicrobial properties could help reduce microbial contamination on surfaces and equipment that are frequently exposed to pathogens.

- **Active packaging:** Antimicrobial packaging films embedded with silver or titanium dioxide nanoparticles actively protect fresh meat and eggs. These functional coatings inhibit post-harvest spoilage microbes and foodborne pathogens, extending retail shelf life while preventing lipid oxidation during refrigeration.

Safety concerns and responsible use

Nanoparticles may offer several benefits in poultry production, but their safety needs careful attention. Their effects can vary with factors such as particle size, dose, surface properties, solubility and duration of exposure. Before their wider use, it is important to establish suitable doses, check for possible residues in meat and eggs, and maintain consistent quality during production. Clear guidelines are also needed for their use in poultry farming.

Green-synthesised nanoparticles and biodegradable delivery systems may offer safer options for some applications. However, more studies under practical farm conditions are needed to understand their long-term effects and to determine how safely they can be used on a larger scale.

Conclusions

Nanotechnology is opening new possibilities for poultry production, particularly in nutrition, gut health, disease management and food safety. Nanoparticles have shown promising results in laboratory studies and animal trials, while some nano-based nutritional preparations are already available commercially. Their ability to improve nutrient delivery and interact with microorganisms makes them an interesting addition to the search for alternatives to routine antimicrobial use.

At the same time, nanoparticles are not a replacement for good poultry management. Their wider use will depend on careful evaluation of dose, toxicity, residues, environmental effects, cost and regulatory requirements. Used alongside vaccination, probiotics, balanced nutrition and good biosecurity, nanotechnology could become one useful component of an integrated approach to poultry health.

The future of poultry production will not depend on a single technology. It will depend on finding practical ways to maintain bird health while using medicines and other resources more responsibly. Nanotechnology may become part of that future, but its success will ultimately depend on how safely, effectively and responsibly it is developed and used.

Komal Mishra, Simmi Tomar, Buddhé Lokesh Shrikisan, Shubham Dabi

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Indian Poultry Industry's Biggest Disease Threat in 2025-2026

Prof. RNS Gowda

The **Highly Pathogenic Avian Influenza (HPAI) H5N1 strain**, commonly known as bird flu, stands as the most critical and economically devastating disease threat to the Indian poultry industry.

During the **2025-2026** period, India experienced multiple widespread waves of **highly pathogenic avian influenza (H5N1 bird flu)**, resulting in dozens of confirmed outbreaks in domestic poultry and wild birds across more than 10 states. In **2025**, the Union Government officially recorded 41 bird flu outbreaks spanning 10 states (as of late July), followed by major subsequent spikes late in the year and extending through mid-2026 across several regions.

Throughout 2025 and 2026, the virus has triggered recurring waves of mass mortality and mandatory culling across several states. The situation has severely impacted both commercial poultry operations and the backyard farming sector.

Outbreak Flashpoints

The 2024-2025 Base Baseline

- **Scope:** 10 states reported poultry outbreaks by mid-2025, including Maharashtra, Jharkhand, Telangana, and Bihar.
- **Impact:** Recorded 41 official poultry outbreaks. This year was also notable for recording rare mammalian spillover cases (e.g., inside zoo environments) and two highly isolated human casualties.
- **Geographical Hotspots:** Multiple states—including Kerala, Karnataka, Bihar, Tamil Nadu, Maharashtra, and Uttar Pradesh—have reported severe, localized outbreaks.
- **Massive Culling & Bird Loss:** In early 2026, over 54,000 birds died and an additional 30,000+ were culled in Kerala alone. Later in the year, Maharashtra saw the culling of nearly 4 lakh chickens, while outbreaks at government research centres in Bengaluru and Patna forced the immediate eradication of thousands of birds.
- **Wild Bird Vectors:** India's position along the **Central Asian Flyway** makes it highly vulnerable. Migratory birds consistently reintroduce the virus into domestic duck populations, crows, and peacocks, facilitating widespread environmental transmission.

Kerala out break

- **Date:** December 2025
- The World Organisation for Animal Health (WOAH) reported **11 distinct outbreaks** on farms across the

Alappuzha and Kottayam districts. This wave alone led to the death and pre-emptive culling of over **84,000 birds** (predominantly ducks).

Tamil Nadu Crow Mortality Event

- **Date:** February 2026
- **Impact:** Chennai was placed on high alert following a massive wildlife outbreak where over **1,500 crows** died after testing positive for the H5N1 strain.

Bihar Multi-District Transmission

- **Date:** January-April 2026
- **Impact:** The virus spread dynamically across six separate districts. High-mortality outbreaks were registered among crows in Bhagalpur and Purnia, alongside structural infections at a commercial poultry facility in Patna]

Karnataka Government Poultry Training Centre Outbreak

- **Date:** April 2026
- **Impact:** An H5N1 outbreak was confirmed at this state facility, requiring the mandatory culling of over **7,400 birds**.
- **Date:** Mid-May 2026
- **Impact:** The town of Navapur faced a severe containment breach where **eight poultry farms** tested positive. Containment operations required culling more than **3.89 lakh chickens** and destroying 21 lakh eggs.

The Regulatory & Economic Battleground

- **The Vaccine Debate:** The Indian poultry sector has actively lobbied the government to permit H5N1 vaccination to avoid catastrophic economic losses. However, the Government of India has maintained its strict **"detect and cull"** policy, keeping H5N1 vaccines under scientific evaluation due to fears that incomplete immunity could mask active transmission.
- **Financial Volatility:** Beyond direct farm losses, these outbreaks trigger massive panic, temporarily slashing local chicken and egg demand and plummeting farm gate realisations by **15% to 25%** during active flare-ups.

Secondary Disease Threats

While bird flu commands the headlines, Indian farmers are simultaneously battling co-circulating health risks that undermine flock productivity:

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- **Ranikhet Disease (Newcastle Disease):** This highly contagious viral infection remains a "silent killer" in India. It caused severe panic in northern poultry hubs like Barwala (Haryana), wiping out over 1.5 lakh chickens in brief, acute spikes.
- **Immunosuppressive & Gut Conditions:** Driven by highly humid conditions and variable feed quality, cases of **Coccidiosis**, **Mycotoxycosis**, and **Colibacillosis** have surged, weakening bird immunity and driving up secondary bacterial infections.

The Economic Impact

The economic consequences of historical avian influenza waves on the **Indian poultry sector** have been severe, resulting in thousands of crores in cumulative losses. Because fear typically spreads faster than the virus itself, the financial damage is driven far less by the biological loss of birds and much more by **abrupt consumer panics and sudden demand collapses**.

Key Takeaways from the 2025-2026 Cycle

- **A Shift to Pan-India Distribution:** Unlike early historical outbreaks that were geographically isolated to specific pockets like West Bengal or Maharashtra, the 2025-2026 wave demonstrated highly dynamic, multi-state transmission. With over 41 outbreaks recorded across more than 10 states—ranging from the southern duck farming belts of Kerala to the western industrial hubs of Maharashtra—the virus proved to be an omnipresent national threat.
- **Ecological and Cross-Species Warnings:** The period was marked by concerning biological indicators, most notably the sporadic spillover of H5N1 into mammalian wildlife species (such as leopards and tigers in zoo environments). While India successfully maintained **zero human H5N1 cases** throughout 2026, these cross-species transitions kept public health frameworks on high alert.
- **Severe Financial Aftershocks:** The economic impact followed a familiar, devastating pattern. While direct asset losses from culling thousands of birds were severe for individual farmers, the macro-level damage was driven by sharp consumer panic. Sudden demand drops led to immediate wholesale price crashes, deeply straining smallholder farmers and disrupting the broader feed supply chain (maize and soybean markets).
- **Policy Evolution:** The scale of the 2025-2026 outbreaks highlighted the structural gaps in the traditional "detect and cull" strategy. Relying solely on the 50:50 center-state compensation model often left farmers facing long recovery timelines, pushing the livestock sector to aggressively re-evaluate

biosecurity guardrails, stricter inter-state movement controls, and the potential future integration of targeted poultry vaccination policies.

Immediate Emergency Protocols (If Mortality Occurs)

If sudden, unexplained poultry mortality spikes occur, farmers are mandated by law to execute the following emergency workflow:

1. **Immediate Quarantine:** The affected shed must be completely sealed off immediately. No birds, eggs, or litter can leave the farm.
2. **Rapid Notification:** The farmer must instantly report the mortality spike to the nearest **Veterinary Assistant Surgeon (VAS)** or district animal husbandry office.
3. **Safe Disposal:** Prior to official containment team arrivals, any dead birds must be safely collected using Personal Protective Equipment (PPE), sprayed with disinfectant, and **buried deep (at least 6 feet)** with lime powder away from water sources, rather than being thrown into the open.

Conclusion

In conclusion, the 2025-2026 bird flu crisis emphasized that avian influenza is no longer an occasional seasonal anomaly for India, but an endemic structural risk. Protecting the livelihood of millions of poultry farmers will increasingly depend on moving away from reactive emergency culling and transitioning toward advanced digital surveillance, standardized biosecurity zones, and faster financial relief mechanisms.



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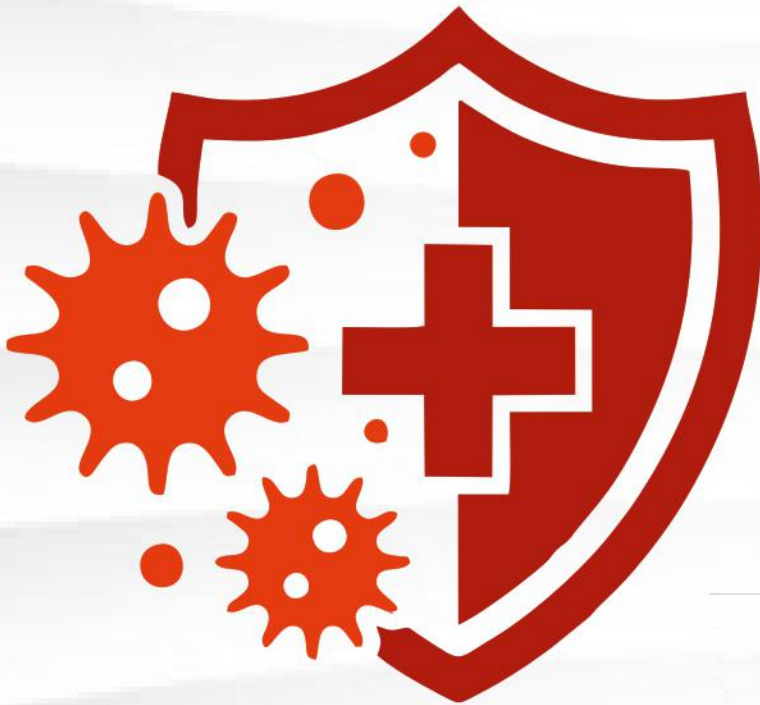
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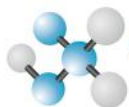
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Strategic Approaches for Effective Poultry Nutrition

Dr Sonali Prusty

Introduction

Poultry farming is the fastest-growing sectors of animal husbandry. In commercial poultry production, feed accounts for nearly 65-75% of recurring costs in broilers and 75-80% in layers. Traditionally, poultry diets have depended heavily on yellow maize for energy and soybean meal and fishmeal for protein. This conventional feeding system, however, is facing growing economic and environmental challenges. Maize has long been the standard energy source in poultry diets. It provides around 3350 kcal metabolizable energy/kg, 9.3% crude protein and 70.3% nitrogen-free extract. But depending almost entirely on maize can make poultry production vulnerable to fluctuations in availability, price and climate.

Alternate energy source

Sorghum, or *jowar*, is particularly attractive because it can tolerate relatively harsh and drought-prone conditions. It provides about 2,593 kcal ME/kg, 10.5% crude protein and 5.6% crude fibre. Its major limitation is tannin, which can interfere with protein digestion and reduce poultry performance. Low-tannin sorghum, however, can be incorporated at considerably higher levels. With proper variety selection and balanced diets, sorghum can replace a substantial proportion of maize in broiler diets.

Pearl millet (Bajra) is another promising climate-resilient cereal. With approximately 12.8% crude protein and 2,655 kcal ME/kg, it can be incorporated at substantial levels in poultry diets. Feeding pearl millet to laying hens has been associated with eggs containing higher levels of desirable fatty acids, including omega-3 fatty acids. This opens the possibility of producing value-added or “designer” eggs through strategic feeding.

Rice milling generates considerable quantities of broken rice. Instead of allowing this material to remain underutilized, it can serve as a valuable energy source in poultry diets. Broken rice contains approximately 4,060 kcal gross energy/kg and can be incorporated into broiler diets.

Alternate protein source

Protein is another major challenge in poultry nutrition. Soybean meal has traditionally dominated poultry diets, but increasing demand and environmental concerns have encouraged scientists to explore alternative protein sources.

Guar meal is a by-product of guar gum production and contains approximately 40-48% crude protein. Its use is limited by compounds such as galactomannans and trypsin inhibitors, which can increase intestinal viscosity and interfere with nutrient utilization. Through enzyme supplementation or microbial fermentation, the safe inclusion level of guar meal can be increased.

The biofuel and rice-processing industries also generate valuable protein-rich co-products like DDGS and Rice Gluten Meal. Rice DDGS contains approximately 45% crude protein, while rice gluten meal can contain nearly 58% crude protein.

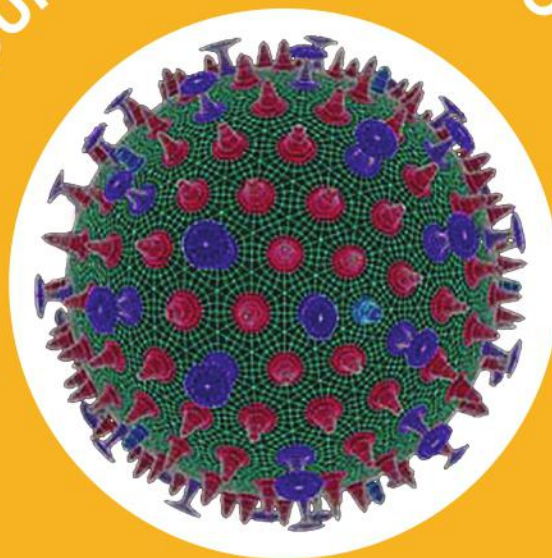
Plants such as moringa and Azolla are also attracting attention. Moringa leaves are rich in protein and carotenoids and can be incorporated into poultry diets at appropriate levels. Besides supporting production, moringa can contribute to improved egg weight and yolk colour. Azolla, a fast-growing aquatic fern, contains approximately 24.5% crude protein on a dry matter basis. Its inclusion in poultry diets has shown potential, particularly as a supplementary feed resource.

Chickens naturally consume insects when they forage. Insect meal is emerging as one of the most interesting alternative protein sources. Dried insect biomass can contain approximately 40-60% crude protein and 30-40% crude fat, along with useful fatty acids and bioactive compounds. Promising species include the black soldier fly, housefly, yellow mealworm, earthworms and silkworm pupae. Spent silkworm pupae, for example, can contain nearly 49% protein and 30% fat. The environmental advantage is equally important. Insects can be produced using organic side-streams while requiring considerably fewer resources than many conventional animal-protein sources. Replacing some or all of the fishmeal in poultry diets with suitable insect meals can maintain or even improve nutrient utilization and poultry performance, while potentially reducing greenhouse-gas emissions, water consumption and aquatic pollution.

Strategies for improvement in utilization of feed

Alternative feed ingredients often contain compounds that poultry cannot digest efficiently. One major group is non-starch polysaccharides (NSPs). Wheat, rye and triticale contain arabinoxylans, while barley and oats contain β -glucans. These compounds can absorb water and increase the viscosity of intestinal contents. The result is slower digestion, poorer nutrient absorption and wetter litter.

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Enzymes such as xylanase, β -glucanase and cellulase help break down plant cell-wall components and release nutrients trapped within them. Proper enzyme supplementation can improve nutrient availability and overall dry matter digestibility. Another important enzyme is phytase. A large proportion—around 60-90%—of phosphorus in plant ingredients is bound in phytate. Poultry cannot efficiently utilize this phosphorus without enzymatic assistance. Phytase breaks down phytate and releases phosphorus along with other bound nutrients such as calcium, zinc and amino acids. This can reduce dependence on inorganic mineral supplementation and, importantly, lower phosphorus excretion into the environment.

The search for alternatives to antibiotic growth promoters has also brought plant-based feed additives into use. Herbs, spices and essential oils contain biologically active compounds that can influence digestion, immunity and intestinal health. Compounds such as thymol, carvacrol, cinnamaldehyde, eugenol, capsaicin and piperine have shown antimicrobial and digestive-supporting effects. These compounds can help control undesirable intestinal microorganisms such as *Clostridium perfringens* and *Escherichia coli*. They may also stimulate digestive secretions, improve intestinal morphology and support the overall health of the gut. Plants such as Cassia tora have also been investigated as natural growth-promoting alternatives. Their bioactive compounds may influence immune responses and blood biochemical parameters while exhibiting antibacterial activity.

Feeding to combat heat stress

When temperatures rise, birds reduce feed intake, alter their metabolism and begin panting to lose body heat. These changes can seriously affect growth, egg production and feed efficiency. Simple nutritional and management strategies can help. Feed can be offered during the cooler parts of the day, particularly early morning and late evening. Pelleted diets or appropriately prepared wet mash can reduce eating effort and encourage feed consumption. Electrolyte management is also important. Sodium bicarbonate, ammonium chloride or potassium chloride can be used appropriately to help maintain acid-base balance. Antioxidant nutrients such as vitamins C and E, together with appropriate selenium supplementation, can provide additional support during heat stress.

Conclusion

Sustainable feeding is not simply about finding cheaper ingredients. It is also about feeding the right nutrients in the right amounts. Modern poultry diets should increasingly be formulated according to digestible amino acid requirements, rather than relying solely on total crude protein. Supplementation with amino acids such as lysine, methionine and threonine allows diets to be formulated more precisely. This can reduce unnecessary dietary protein and, consequently, reduce the amount of nitrogen that birds must excrete.

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Feeding for Immunity:

Practical Nutritional Strategies to Strengthen Disease Resistance in Poultry

Kartik Bhatt¹ and Aruna Kuniyal²

Under practical farm conditions, effective nutritional management plays a pivotal role in strengthening the immune system, enhancing disease resistance and maintaining the overall health and productivity of poultry. The following sections outline some of the most effective, practical, and economically feasible nutritional strategies that can be readily implemented at the farm level.

1. Protect Birds from Mycotoxins

Mycotoxins are toxic compounds produced by moulds that may contaminate feed ingredients during production or storage. Even at low levels, prolonged exposure may impair gut integrity, reduce nutrient utilization, increase oxidative stress, suppress immune responses, and increase susceptibility to secondary infections. Feed should therefore be protected from moisture, mould growth, insects, and prolonged storage. High-risk ingredients should be monitored regularly, and mycotoxin-management products should be selected according to the type of mycotoxin and their proven effectiveness.

2. Regularly Test the Quality of Raw Materials and Finished Feed

Routine quality testing of raw materials and finished feed is essential to ensure feed safety, consistency, and nutritional accuracy. Raw ingredients should be evaluated for nutrient composition, contaminants, adulteration, and quality variations, including the detection of possible adulteration of soybean meal with low-cost inferior materials. Finished feed should be checked for nutrient accuracy, mixing uniformity, pellet quality, and potential nutrient losses. Regular monitoring helps identify formulation errors, ingredient variability, and storage-related issues, ensuring a safe, balanced, and consistent diet for poultry.

3. Feed for Balanced Nutrition, Not Only for Faster Growth

A balanced diet should provide adequate energy, protein, essential amino acids, vitamins, and minerals according to the bird's age, production stage, and environmental conditions. Immune-cell development, antibody production, antioxidant defense, and tissue repair depend on an adequate nutrient supply. Even mild nutrient deficiencies may compromise immune function before visible losses in growth or egg production occur.

4. Maintain Protein Quality and Amino Acid Balance

Proteins and amino acids are required for the production of antibodies, immune cells, enzymes, and other protective molecules. Particular attention should be given to methionine, lysine, threonine, and tryptophan. Threonine supports mucin production and intestinal-barrier function, while methionine contributes to antioxidant defense. Excessive dietary protein should also be avoided because undigested protein may promote undesirable microbial fermentation in the intestine.

5. Strengthen Antioxidant and Micronutrient Defenses

Oxidative stress can damage immune cells, particularly during heat stress, disease challenges, vaccination, or transport. Nutrients such as vitamins E, A, D, and C, selenium, zinc, copper, manganese, and iron support antioxidant defense, epithelial integrity, enzyme activity, and immune regulation. Vitamin E protects cell membranes, while selenium supports antioxidant enzymes such as glutathione peroxidase. Vitamin A helps maintain respiratory and intestinal barriers, and vitamin D contributes to immune regulation.

6. Make Gut Health a Nutritional Priority

The gastrointestinal tract is a major site of immune activity, and a healthy intestinal lining acts as an important barrier against pathogens. Good feed quality, balanced nutrition, gradual dietary transitions, and effective control of intestinal diseases help maintain gut integrity.

The use of probiotics and organic acids can be considered as part of an integrated gut-health programme. Selected probiotics may support beneficial intestinal microorganisms, improve microbial balance, and strengthen intestinal-barrier function. Organic acids may help create a less favourable environment for certain harmful microorganisms and support digestive health.

7. Regularly Monitor Intestinal Health Through Lesion Scoring

Subclinical intestinal damage may reduce nutrient absorption, growth, feed efficiency, and disease resistance even when obvious clinical signs are absent. Periodic post-mortem examination and intestinal lesion scoring of representative birds by a veterinarian can help assess conditions such as coccidiosis and necrotic enteritis. The findings should be interpreted along with flock history, clinical signs, mortality, performance, and laboratory results to guide nutritional and health interventions.

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8. Ensure Clean and Safe Drinking Water

Water quality directly influences water intake, feed consumption, digestion, and bird health. Water should be checked periodically for microbial contamination, pH, hardness, total dissolved solids, and other relevant parameters. Drinker lines should be cleaned regularly to prevent biofilm formation and reduce microbial contamination.

9. Maintain Appropriate Feed Particle Size and Physical Quality

Feed particle size influences feed intake, nutrient utilization, gizzard development, and gut health. Very fine feed may increase dust and reduce normal gizzard activity, whereas excessively coarse or unevenly ground feed may result in selective feeding and inconsistent nutrient intake. An appropriate and uniform particle-size distribution supports normal digestive function. Regular sieve analysis, along with monitoring of grinding quality, mixing uniformity, pellet quality, and fines, can help maintain consistent feed quality.

10. Maintain Appropriate Crude-Fibre Levels in Grower and Layer Diets

Crude fibre supports gizzard activity, gut motility, intestinal development, and digestive health when included at appropriate levels. Commercial grower diets generally contain around 5-7% crude fibre, while layer diets commonly contain about 3-6%, depending on the ingredients, fibre source, dietary energy level, and production stage. The source and type of fibre are also important because soluble and insoluble fibres may affect gut function differently.

11. Adjust Nutrition during Heat Stress and Other Predictable Challenges

Heat stress reduces feed intake, increases oxidative stress, and may impair gut integrity and immune function. Betaine, as an osmolyte, helps maintain cellular water balance and may reduce the energy required for cellular osmotic regulation. Vitamin C, vitamin E, and selenium support antioxidant defenses, while appropriate electrolyte supplementation and DCAD (Dietary Cation Anion Difference) help maintain electrolyte and acid-base balance. Offering feed during cooler hours, such as early morning and evening, can also encourage feed intake.

12. Avoid Unnecessary or Excessive Use of Feed Additives

Using multiple feed additives does not necessarily result in better immunity. Additives should be selected according to the farm's specific needs, scientific evidence, product quality, recommended dose, and expected benefits. Their effectiveness should be evaluated using measurable indicators such as feed

intake, growth, feed conversion, flock uniformity, intestinal health and mortality.

13. Ensure the Judicious Use of Antibiotics

Antibiotics should be used only when clinically indicated and under veterinary guidance. Whenever feasible, antibiotic selection should be supported by antimicrobial susceptibility testing (AST). Unnecessary or improper use may contribute to antimicrobial resistance, disturb beneficial gut microorganisms, and increase the risk of drug residues.

14. Integrate Nutrition with Vaccination, Biosecurity and Good Management

Nutrition supports immune competence but cannot make birds completely disease-proof. Vaccination provides specific immune protection, while biosecurity, sanitation, litter management, vector control, and proper environmental management help reduce pathogen exposure. The best flock-health outcomes are achieved when balanced nutrition is integrated with a comprehensive disease-prevention programme.

Conclusion

Healthy and resilient birds are produced through the combined effects of safe and high-quality feed, regular feed-quality testing, balanced nutrition, adequate amino acids and micronutrients, healthy gut function, appropriate feed particle size and fibre levels, clean water, effective heat-stress management, responsible antibiotic use, vaccination, biosecurity, and regular flock monitoring. Nutrition alone cannot prevent every disease, but it provides the foundation for effective immune responses, improved disease resilience, and better recovery from health and environmental challenges. Therefore, feeding birds for better disease resistance requires a holistic approach in which sound nutrition is integrated with good management, preventive healthcare and strong biosecurity.



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With a career spanning more than five decades, Dr. Trifale has made significant contributions to the animal health and livestock sectors through his diverse experience across veterinary practice, pharmaceutical marketing, feed industry innovation, business development and professional associations.

From Veterinary Service to Animal Health Industry

A graduate in Veterinary Science and Animal Husbandry (B.V.Sc. & A.H.) from Nagpur Veterinary College, under Punjab Agricultural University, Akola, Dr. Trifale began his professional journey in 1971 as a Veterinary Officer with the Government of Maharashtra.

His early years of service in rural and remote regions of Maharashtra provided him with valuable grassroots experience in animal healthcare delivery and farmer outreach. This exposure enabled him to develop a deep understanding of livestock production systems, rural livelihoods and the practical challenges faced by farmers. In 1977, Dr. Trifale joined the Glaxo Animal Health Division as its first Veterinary Representative, headquartered in Nagpur. Through outstanding field performance, professional commitment and his ability to establish products in a challenging market, he earned the prestigious Star Award, marking the beginning of a successful career in the animal health industry.

Expanding Veterinary Business Across Maharashtra and Beyond

From 1981 to 1995, Dr. Trifale served Cadila Veterinary in a number of leadership capacities, working from

locations including Nagpur, Hyderabad and Pune. During this period, he played a pivotal role in expanding the company's veterinary business across Maharashtra, Andhra Pradesh, Karnataka and Madhya Pradesh, significantly strengthening market presence and customer confidence.

Following the restructuring of Cadila, he took on the position of Marketing Manager at Cadila Pharma, where he successfully contributed to the launch of new products, strengthened established brands and developed a high-performing marketing and field team. His efforts contributed meaningfully to the company's continued growth.

Driving Innovation in the Feed Industry

One of the defining milestones of Dr. Trifale's career came during his tenure as Marketing Head at Jubilant Organosys from 1997 to 2004.

Demonstrating considerable foresight and innovation, he led the commissioning of India's pioneering Choline Chloride 60% Cereal Base Plant and actively championed the adoption of cereal-based choline chloride technology. This initiative contributed to the industry's transition from conventional silica-based formulations towards newer cereal-based formulations.

Through technical seminars, industry interactions and extensive stakeholder engagement, Dr. Trifale helped accelerate the acceptance of this transformative technology across the feed and livestock sectors.

Continuing His Contribution to Agribusiness

Even after his corporate leadership assignments, Dr. Trifale continued to contribute actively to agribusiness and entrepreneurship.

From 2007 to 2016, through Exotic Biosolutions (earlier Exotic Mushrooms), he played a significant role in developing new customer networks, expanding business opportunities and contributing to the growth and diversification of the enterprise.

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His efforts reflected the same commitment to **innovation, relationship-building and market development** that had characterised his career in the animal health industry.

Commitment to the Veterinary Profession

A committed supporter of the veterinary fraternity, Dr. Trifale also served as an active member of the **Association of Veterinarians from Industry (AVI)** from 2008 to 2016.

During his association with the organisation, he contributed to strengthening its activities through technical seminars, professional interactions and initiatives that recognised and celebrated the achievements of veterans of the veterinary industry.

Service Beyond Professional Achievement

Dr. Trifale's contribution extends beyond his professional accomplishments. He has remained deeply committed to social causes and community service.

He has actively supported **community initiatives and organ donation awareness programmes** under the guidance of the **Zonal Transplant Coordination Centre, Mumbai**. He has also pledged to be an **organ donor**, reflecting his commitment to service and humanity.

A Mentor and Inspiration

Throughout his professional journey, Dr. Trifale has earned respect as a mentor and source of inspiration for colleagues across generations. He has acknowledged the

guidance and encouragement of **Dr. S. S. Chousalkar**, whose support inspired him to enter the animal health industry and played an important role in shaping his professional career.

His journey reflects the evolution of India's animal health industry over more than five decades—from grassroots veterinary services and pharmaceutical marketing to feed technology, business development and industry leadership.

INFAH Recognises a Lifetime of Achievement

Through the **INFAH Award**, the federation has recognised Dr. Raghuvir Krishnarao Trifale's exceptional and sustained contribution to the animal health sector.

His career represents a unique combination of **veterinary expertise, entrepreneurial thinking, marketing leadership, technological innovation and social commitment**. From serving farmers in rural Maharashtra during the early years of his career to contributing to major developments in veterinary pharmaceuticals and feed technology, Dr. Trifale has remained closely connected with the growth of the animal health industry.

INFAH honoured him for his **exemplary contributions to veterinary healthcare, animal health, feed industry innovation, business development, professional advancement and social service**, recognising his lifetime of achievement and sterling contribution to the Animal Health Industry.

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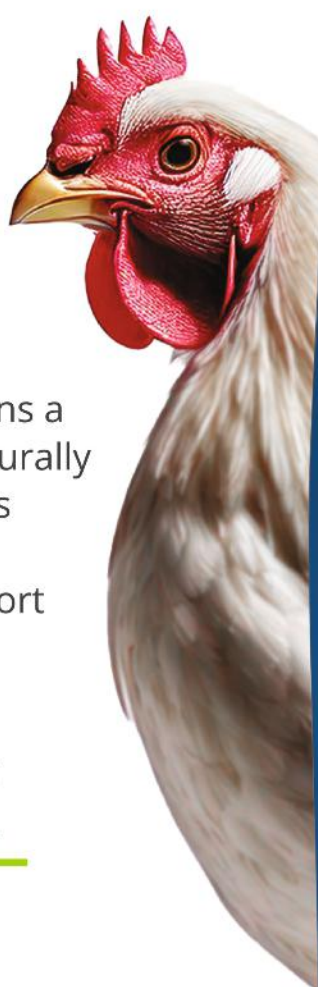
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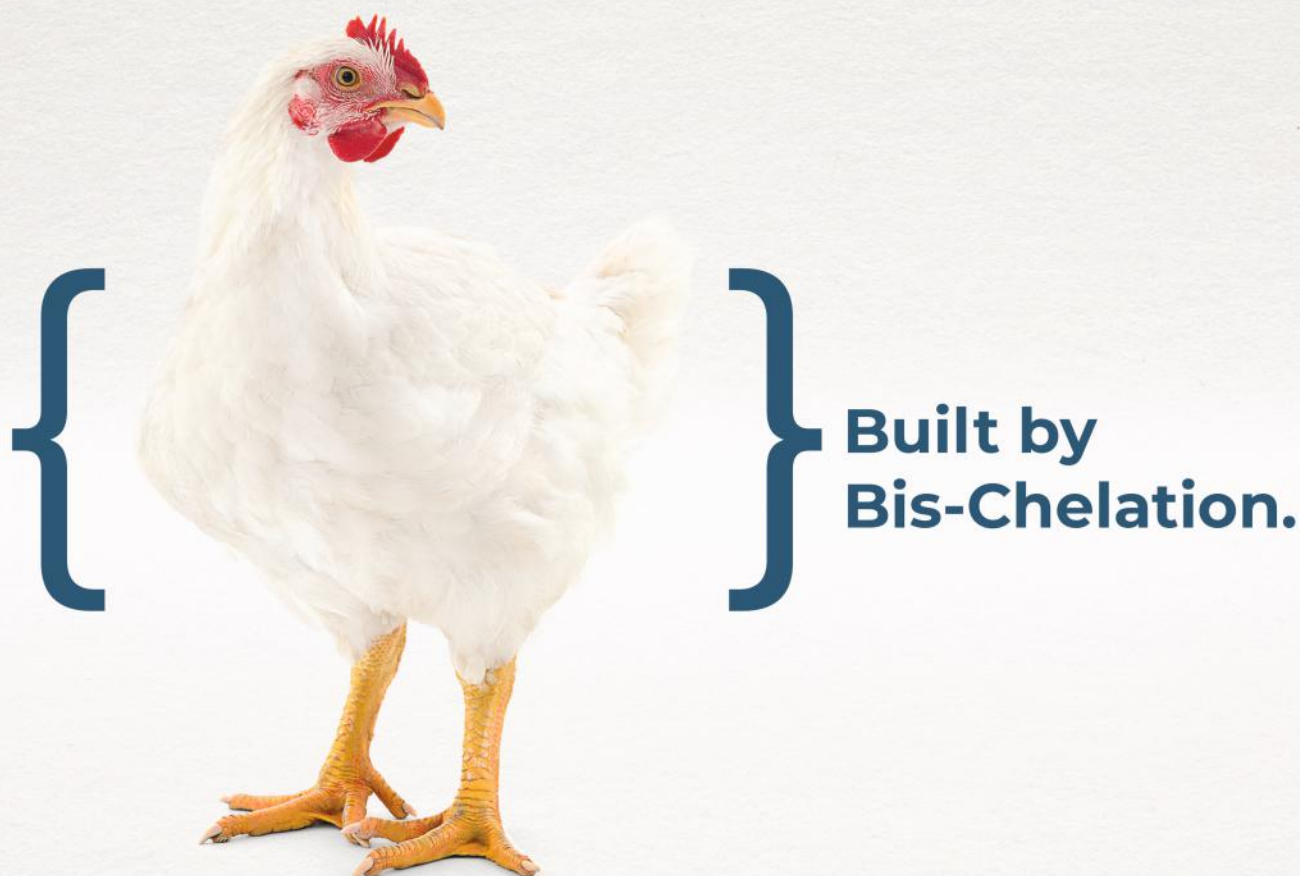
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