RNI No. 7030/2002

Price Rs. 60/-

हिंद पोल्ट्री

HIND POULTRY

Vol. XXIV December 2025 No. 6

18th EDITION POULTRY INDIA™ OUR INDUSTRY SHOW 25 • 26 • 27 NOVEMBER 2026

17th Edition of Poultry India 2025 Concludes with Thumping Success


Pg 31

Soya DOC: A Critical Nutrient for Poultry Productivity

Pg 11

Hind Poultry Shines at Poultry India 2025

HIND PUBLICATIONS # 204, PLOT NO. 19, HUDA COMPLEX, SAROORNAGAR, HYDERABAD - 35. TELANGANA. INDIA. PH : 9391378805


MODERN BIRD
DEVELOPED TO KEEP
100 WEEKS
ARE YOU GETTING 80%++
PRODUCTION AT 100 WEEK*#
WITH OUT MOULTING
ONLY
READYMUNE®
&
CALFACE®
CAN PROVIDE THIS
PRODUCT DESIGNED FOR MODERN BIRDS
* Upto 162 weeks kept without Moulting production 82%+ at that time
* Upto 272 weeks after Moulting and bird was laying 82 - 86 production
# Kept with vegetable feed only
INTERFACE PHARMACEUTICALS PVT. LTD.
An ISO 9001 : 2015 (QMS) & WHO GMP, HACCP, ISO 22000 : 2018 (FSMS) Certified Company
A-4, First Floor, Mayapuri Industrial Area, Phase - I, (On Govt. Ware House Road) New Delhi - 110064
Regd. Office: EA-180, Maya Enclave, New Delhi - 110064. (INDIA)
Phone : +91 11 4004 7455, 4004 7655 Fax : +91 11 2811 2753
e-mail : interfacepharma@gmail.com, website : www.interfacepharma.com

Poultry / Animal
Feed Supplement

PROMOIS
ПРОМОИС
INTERNATIONAL

PROAMINO - T
L-THREONINE
FEED GRADE 98.5%

OTHER PRODUCTS

- Glycerine
- DL-Methionine
- L-Valine
- L-Glycine
- L-Lysine Hcl
- L-Tryptophan

- Dicalcium Phosphate (DCP)
- Monocalcium Phosphate (MCP)
- Choline Chloride 60%
- Sodium Bi Carbonate
- Chlortetracycline - CTC
- Toxin Binder

- Glutamine
- Leucine
- Arginine
- Premix (Broiler)
- Premix (Layer)

Contact us :
What's app:
+91 7054116056
+91 7388158309
+91 9559865338

PROMOIS INTERNATIONAL
sales@promoisinternationallt.com
www.promoisinternational.com

हिंद पोल्ट्री

MONTHLY POULTRY MAGAZINE

VOL. XXIV No. 6 December 2025

Publisher :
SUGANDHA VYAS

Editorial & Regd. Office
HIND PUBLICATIONS
204, Plot No. 19, Huda Complex,
Saroor Nagar,
Hyderabad - 500 035.
Telangana. INDIA
Phone : 040-40212359
Mobile : 093913 78805
093470 28641
E-mail : hindpoultry@hotmail.com
Website : **www.hindpoultry.com**

YEARLY SUBSCRIPTION :
India Rs. 500/-
OTHER COUNTRY : $ 60 or Equivalent

Edited, Printed, Published and owned by
M.K. Vyas and Published from
204, Plot No. 19, Huda Complex,
Saroor Nagar, Hyderabad - 500 035. INDIA.
Design and Typesetting
Akshaya Graphics, Hyderabad.
Printed at
Akruti Offset Printers, Hyderabad.
A Magazine of
HIND PUBLICATIONS
RNI No. **7030/2002**
Subject to Hyderabad Jurisdiction

Hind Poultry Shines at Poultry India 2025

About Hind Poultry

Hind Poultry is one of the largest circulating monthly magazine on POULTRY from Hyderabad- India. Over the last 25 years of its publication it has developed a large circulation and gained both national and international readership of industry professionals, poultry buyers, producers, manufacturers, Govt. and media circle. It deals specially with activities and problems of the poultry industry besides emphasizing development in this sector with comprehensive coverage of activities, events & exhibitions and advertisement which reaches directly into the hands of targeted decision makers.

Hind Poultry has published over 70 books on poultry and livestock. Management, diseases, processing, feed formulation and nutrition. Hind Poultry has participated in over 70 exhibitions across the globe which includes India, France, Thailand, Malaysia, Vietnam, Philippines, Nigeria, Germany, Indonesia and Nepal.

ROSS 308 AP BEST ACHIEVERS OCTOBER-2025

Aviagen INDIA

Northern Region

COMPANY: Sampoorna Feeds
FARMER NAME: Ms.Tripta Rani

OCTOBER-2025	Top #1
Farm Type	Open House
State	PUNJAB
Chicks Placed	7958
Mean Age	32.6
Avg Body Wt	2335
FCR	1.300
cFCR	1.226
Livability%	96.3
Daily Gain	71.6
EPEF	530.5

Eastern Region

COMPANY: IB Group
FARMER NAME: Mr. Brajesh Patel

OCTOBER-2025	Top #1
Farm Type	EC House
State	BIHAR
Chicks Placed	11979
Mean Age	35.0
Avg Body Wt	2500
FCR	1.424
cFCR	1.313
Livability%	98.1
Daily Gain	71.4
EPEF	491.8

Central Region

COMPANY: Japfa
FARMER NAME: Mr. Avinash Choudhary

OCTOBER-2025	Top #1
Farm Type	EC House
State	MAHARASHTRA
Chicks Placed	15617
Mean Age	32.9
Avg Body Wt	2451
FCR	1.355
cFCR	1.255
Livability%	96.1
Daily Gain	74.6
EPEF	529.0

South Region

COMPANY: SKM
FARMER NAME: Mr. Subash Chandra Bose

OCTOBER-2025	Top #1
Farm Type	Open House
State	TAMILNADU
Chicks Placed	5272
Mean Age	33.2
Avg Body Wt	2310.0
FCR	1.420
cFCR	1.351
Livability%	96.9
Daily Gain	69.7
EPEF	475.5

OCTOBER-Top PERFORMANCE BY AREA

Area	Chicks Placed	Mean Age	BW	FCR	cFCR(2Kg)	Livability%	Daygain	EPEF
North EC House	6460	35.2	2554	1.390	1.267	96.0	72.5	500.6
North Open House	7958	32.6	2335	1.300	1.226	96.3	71.6	530.5
East EC House	11979	35.0	2500	1.424	1.313	98.1	71.4	491.8
East Open House	2720	41.0	2909	1.434	1.232	95.7	71.0	473.5
Central EC House	15617	32.9	2451	1.355	1.255	96.1	74.6	529.0
Central Open House	8329	32.6	2349	1.398	1.321	97.6	72.2	503.7
South EC House	7798	31.2	2050	1.350	1.339	97.5	65.8	475.1
South Open House	5272	33.2	2310	1.420	1.351	96.9	69.7	475.5

OCTOBER-Top 10 FIELD PERFORMANCE

Flock	Farm Type	State	Chicks Placed	Mean Age	BW	FCR	cFCR	Livability%	Day Gain	EPEF
Flock 1	OPEN HOUSE	PUNJAB	7958	32.6	2335	1.300	1.226	96.3	71.6	530.5
Flock 2	EC HOUSE	MAHARASHTRA	15617	32.9	2451	1.355	1.255	96.1	74.6	529.0
Flock 3	EC HOUSE	MAHARASHTRA	10580	33.0	2454	1.373	1.272	96.7	74.4	524.4
Flock 4	OPEN HOUSE	PUNJAB	18967	33.0	2453	1.330	1.229	93.6	74.3	522.9
Flock 5	EC HOUSE	MAHARASHTRA	9480	31.7	2310	1.351	1.283	96.8	72.8	521.3
Flock 6	EC HOUSE	MAHARASHTRA	7272	31.4	2302	1.352	1.285	95.8	73.3	519.6
Flock 7	OPEN HOUSE	HARYANA	15689	34.0	2618	1.420	1.283	94.9	76.9	514.0
Flock 8	OPEN HOUSE	PUNJAB	11860	30.8	2120	1.300	1.273	97.2	68.7	513.9
Flock 9	OPEN HOUSE	PUNJAB	10544	34.5	2484	1.360	1.252	97.0	71.9	513.2
Flock 10	OPEN HOUSE	PUNJAB	11494	34.9	2514	1.370	1.256	97.2	72.1	511.6

Nuance Biotechnology Makes a Strong Impact at Poultry India 2025

Leadership Presence, Strategic Engagements, and Collaborative Milestones Define an Exceptional Day 1

Nuance Biotechnology participated in Poultry India 2025 with an impressive presence, marked by high-value discussions, influential networking, and recognition across the poultry fraternity. With senior leadership on ground and active collaboration efforts, Day 1&2 reaffirmed Nuance's commitment to advancing science-driven solutions for industry.

Leadership Driving Meaningful Engagements

The participation was significantly strengthened by the presence of ***Mr. J. S. Uppal, Business Director – South Asia,*** and ***Dr. David Harrington, Chief Product Officer nu.ance biotechnology*** a Switzerland based company with a production and R& D Facilities in France with a strong global footprint in over 40 Countries.

Mr. Uppal led key strategic interactions with integrators, feed millers, and distribution partners, highlighting Nuance's focused growth roadmap across South Asian markets. His discussions centered on marketing needs, innovation opportunities, and strengthening value delivery to customers.

Dr. Harrington engaged extensively with nutritionists, technical experts, and industry thought leaders, sharing deep insights on mycotoxin risk management, gut health, biosecurity trends, and next-generation nutritional technologies.

His expertise and global perspective added tremendous value to the conversations throughout the day.

Collaborative Excellence with Nanovet Nutrition

A major feature of the event was the reinforcement of ***Nuance's*** partnership with ***Nanovet Nutrition Private Limited***. Both organizations utilized the exhibition platform to align R&D advancements, market expansion initiatives, and advancing mycotoxin management thru innovative and science backed solutions for evolving production challenges. The collaboration continues to reflect shared values of innovation, scientific rigour, and sustainable growth for the poultry sector.

Honored Moment at the Hind Poultry Booth

The day witnessed a special highlight as Nuance Biotechnology was invited for the ***Book Release Ceremony*** at the Hind Poultry stand.The presence of ***Mr J S Uppal*** and ***Dr. David Harrington*** during the formal launch elevated the importance of the event, drawing the attention of visitors, media representatives, and industry stakeholders. This prestigious moment showcased Nuance's growing leadership footprint in the Indian poultry industry.

Positive Outlook for the Days Ahead

With impactful discussions, renewed partnerships, and extensive engagement led by senior leadership, Nuance Biotechnology closed Poultry India participation on a highly promising note.

The team looks forward to building momentum through technical sessions, customer interactions, and continued collaboration opportunities.

Poultry India 2025 continues to be a powerful platform for Nuance Biotechnology to connect, innovate, and drive value for the poultry ecosystem across South Asia.

Soya DOC: A Critical Nutrient for Poultry Productivity

We also realized that soya plants are largely locally fabricated, and their technical design often depends on the experience of the fabricator. Hence, we decided to build strong in-house technical expertise within our group. We take pride in the fact that our Nanded and Srirampur plants-including their buildings and equipment-have been designed, manufactured, and installed entirely by our in-house expertise team.

Question 1. : You have conducted numerous workshops on the quality of Soya DOC and its importance for Poultry. "What motivated you to do this?"

Answer : (Dr. Sunil Nadgauda) : Honestly, what made me start doing these workshops was seeing how much impact the quality of Soya DOC has on overall poultry performance - and how often it's overlooked. Many people in the feed industry focus mainly on price, but not everyone understands how variations in Soya DOC quality - things like protein levels, amino acid balance, or proper heat treatment - can directly affect animal growth and health.

I wanted to bridge that gap. Through these workshops, my aim has been to create awareness about what defines good-quality Soya DOC, how to evaluate it, and why it's worth investing in. When nutritionists and feed millers understand the science behind it, they make better decisions, which ultimately leads to better productivity and profitability for farmers.

So, in short, it's about education and impact - helping the industry move from just "cost-based buying" to "quality-based nutrition."

Question 2. : How long has Venky's been in the soya business?

Answer :(Mr.N.K. Toshniwal) When we established our poultry genetics research and breeding facilities - including pure line and grandparent stock - in India, Padmashree Late Dr. B. V. Rao realized that the quality of Soya DOC plays a crucial role in unlocking the highest genetic potential of our breeds. With that vision, he initiated the idea in 1989, and by 1992, we had set up our first soya plant in Solapur.

We were actually the first poultry company to venture into the soya business, which at that time was primarily considered an oil business. Naturally, we faced many challenges in the initial years. In fact, one of the financial institutions even remarked that "oil is a slippery business - will Venkys be able to manage it?"

For the first two to three years, being new to this segment, we encountered several hurdles. However, under the strong leadership of our Chairperson Mrs. Anuradha J.Desai, we decided to make this unit a core strength supporting our breeding program. She stressed that this unit should not

only support the breeding program but should itself become one of the key unit. We take pride in the fact that we had prepaid all our loans to financial institutions ahead of schedule, even with prepaid-penalties for the first plant and their after we decided to expand this business only with our internal accruals.

As we progressed, we realized the importance of being part of the edible oil business as well. So, in 2001, we set up an oil refinery, ensuring complete value addition for all our by-products. This step made the unit much more competitive and sustainable. In fact, we were probably the first company to produce lecithin in Maharashtra.

In 2004, we established our second plant in Solapur, followed by a third plant in Nanded (in 2015) and a fourth in Srirampur (in 2021). All strategically located to cater effectively to the industry.

Question 3. : After setting up your own Soya Plant, how has the feed been benefited?

Answer :(Dr.KP Kale) : Setting up our own Soya Plant truly transformed the way we look at feed nutrition and quality. By bringing soya processing in-house, we were able to streamline the entire supply chain - now, fresh Soya DOC reaches our feed mill within just 1-2 days of processing. That freshness made a world of difference in feed palatability, and we soon began seeing visible improvements across all productivity parameters - from our SPF, Pure Line, and GP breeders (around 33 years Journey) to commercial broiler flocks.

Having complete control over processing has been a huge advantage. We can precisely manage parameters like temperature during toasting, ensuring that trypsin inhibitors are fully inactivated while amino acids remain intact. This balance is critical - it improves protein digestibility and nutrient availability, allowing the birds to convert feed more efficiently.

In fact, we developed our in-house technology and designed, developed, and manufactured the required equipment for the process.

With consistent quality Soya DOC, we also started fine-tuning the protein and amino acid profiles in our feed formulations. This helped us reduce excess crude protein, cut down on nitrogen excretion, and improve overall gut health - making our feed both cost-effective and environmentally sustainable.

Over time, we've realized that properly processed soya meal isn't just another ingredient; it's the nutritional backbone of our feed. Our own Soya DOC provides a pure, digestible protein source that has truly boosted bird performance, liveability, and overall productivity.

Question 4. : How are you managing the Soya DOC cost in spite of maintaining product quality and purity?

Answer:(Mr.N.K. Toshniwal) : As we know, the soya industry is highly working-capital intensive, and interest costs form a significant part of overall expenses. To manage this, we made a conscious decision to operate completely debt-free-without taking any loans for setting up or running our plants.

We also realized that soya plants are largely locally fabricated, and their technical design often depends on the experience of the fabricator. Hence, we decided to build strong in-house technical expertise within our group. We take pride in the fact that our Nanded and Srirampur plants-including their buildings and equipment-have been designed, manufactured, and installed entirely by our in-house expertise team.This approach helped us reduce project costs by over 40%, which in turn keeps our production costs low.

Over the years, we have developed efficient sourcing of raw soybeans, ensuring availability throughout the year. We have optimized plant operations and implemented continuous process monitoring to minimize wastage and improve yield. Focus is on achieving operational efficiency. Ultimately, our integrated approach-right from setting up the unit to procurement and processing-allows us to maintain high standards of quality and purity while keeping overall production costs competitive.

Question 5. : What are the common types of adulterations noticed if the Soya DOC source is not authentic and reliable?

Answer: (Dr. Sunil Nadgauda) : When the Soya DOC source is not authentic or reliable, several types of adulterations can be observed - both intentional and due to poor processing practices. The most common issues include:

- Mixing with fillers such as rice bran, de-oiled cake from other oilseeds (like cottonseed or sunflower), or even sand and silica to increase bulk weight.
- High fibre content due to the inclusion of hulls, which reduces protein percentage and digestibility.
- Presence of residual oil or improperly toasted

material, leading to higher trypsin inhibitor levels that can adversely affect bird performance.

- Excessive moisture added deliberately to increase weight, which also reduces shelf life and promotes fungal growth.
- Mycotoxin contamination resulting from poor storage or substandard raw material.
- In some cases, urea or melamine adulteration has been reported to artificially enhance crude protein readings.
- Salt Adulteration-Common Salt is cheap and dense, so even small additions can make a large difference in weight

Such adulterations directly impact feed quality, bird health, and overall productivity. That's why we always emphasize on sourcing Soya DOC from trusted and verified suppliers. We believe that birds, through their performance, convey quality much better than lab reports.

Question 6. : Is protein percentage the right way to judge soybean DOC?

Answer : (Dr.KP Kale) : Protein percentage is an important indicator, but it is not sufficient on its own to judge soybean meal quality for broilers. While crude protein gives a basic idea of nutritional value, several other factors significantly influence broiler performance and feed efficiency.

Limitations of relying solely on protein percentage include:

1. Amino acid balance - Protein percentage doesn't reflect levels of essential amino acids like lysine, methionine, and threonine, which are crucial for growth and muscle development.
2. Anti-nutritional factors - Compounds like trypsin inhibitors can reduce digestibility and nutrient absorption if not properly inactivated during processing.
3. Protein solubility and digestibility - High protein content alone doesn't guarantee that protein is effectively digestible.
4. Processing quality - Over/ under-cooking, along with factors like color and odor, can indicate poor processing that affects nutrient availability.

A comprehensive assessment of soybean meal should combine protein percentage with these additional indicators to ensure optimal growth, efficient feed conversion, and overall broiler health. In an interview with Feed info on 13 September 2024, Tom D'Alfonso, Director for Animal and Aquaculture at the US Soybean Export Council (USSEC), outlined key findings comparing US Soy with soy from other origins. The main points include:

1. Their studies highlight significant differences in nutrient content, consistency, and sustainability because of increased heat damage.
2. The higher digestibility of essential amino acids found in SBM can add an estimated value of $3-$5/MT.
3. Additionally, greater availability of digestible energy (ME) for poultry contributes an additional$9-$10/MT.
4. Better nutrient composition and digestibility translate to lower feed cost per kg of animal protein and improved animal performance.
5. Feed conversion trials show a 5-point FCR improvement (1.65 Rs. 1.59) with US SBM due to higher metabolisable energy and amino acid digestibility.
6. For a broiler operation processing 50M birds/year, using 100% US soy can unlock ~$3 million in annual profits through reduced feed use and/or higher output.

Tom D'Alfonso'sfindings strongly align with and reaffirm our experience of many years.

Conclusion Remark:

"High-quality Soya meal is the backbone of poultry nutrition, directly influencing growth, productivity, and profitability. By ensuring proper processing, amino acid balance, and strict quality control, we not only optimize feed efficiency but also safeguard bird health and performance. Investing in Soya quality is, therefore, a strategic step toward sustainable and profitable poultry production."

VH group's approach is to always focus on quality at an economical cost, and our division follows the same corporate policy. Ultimately, investing in high-quality Soya DOC is not just about nutrition-it's a strategic lever for sustainable poultry production, improved profitability, and long-term operational efficiency."

We are well aware that Venky's alone cannot cater to the industry's demand, so we are communicating this message to all our poultry stakeholders to emphasize its importance.

*Interview conducted by **Dr.Datta Kulkarni**,
VENKATESHWARA BV BIOCORP PVT LTD, PUNE

Aviagen™ Brief

Green Muscle Disease

Reducing the Incidence in Broiler Flocks

Dr. S.F. Bilgili, Graduate Program Officer, Department of Poultry Science, Auburn University
Dr. Joseph Hess, Extension Specialist and Associate Professor, Auburn University

Executive Summary
Green Muscle Disease (or Deep Pectoral Myopathy, DPM) is a degenerative disease of the minor pectoral muscles (i.e. the tenders), which is characterized by atrophy and necrosis. The condition arises when the muscle fibers become deficient in oxygen and is associated with sudden and excessive wing flap. The development of the disease can be split into three categories. Category 1 is the acute inflammatory lesion in which the deep pectoral muscle is very red and hemorrhagic. Category 2 describes the stage at which the lesion in the inner fillet becomes well defined and is sometimes circumscribed by a hemorrhagic ring. Category 3 describes the progressive degeneration and greening of damaged tissue. Although the incidence of DPM is increased in heavy broilers, it can occur at any age or weight and is dependent upon the management and husbandry systems employed. Identifying and eliminating the management issues which contribute to wing flapping and the development of the condition is key to reducing the incidence of DPM.

Introduction
Green Muscle Disease is a hidden problem in modern-day broiler chickens. Green Muscle Disease (or Oregon Disease) is a common name given to a degenerative muscle disease known as Deep Pectoral Myopathy (DPM). The condition is characterized by necrosis and atrophy of the tenders (i.e. supracoracoideus or minor pectoral muscles). The lesions often affect both tenders and vary in color, progressing from a pinkish hemorrhagic appearance to a gray-greenish discoloration as illustrated in **Figure 1**.

Figure 1: Deep Pectoral Myopathy

DPM was first described in mature breeder turkeys and broiler breeders but is being seen more in meat-type chickens, especially those selected for breast muscle development. The affected muscles are discarded during de-boning, resulting in saleable yield losses. However, the major issue with DPM is that if the birds are marketed as whole carcasses or parts, the problem is rarely detected during processing, resulting in consumer complaints and making the cause of the problem difficult to identify.

The condition is not associated with any infectious agent and therefore has no public health significance other than by affecting the aesthetic appearance of the meat.

DPM is rarely detectable during processing if the birds are marketed as whole carcasses or parts.

Why Does DPM Target Broiler Breast Muscles?

- The pectoral muscles in avian species are associated with flight and the deep and superficial pectorals work in synergy, one to raise the wing and the other to lower it.
- The anatomy of these muscles is, however, intrinsically different in that the inner fillet has a tough outer sheath which is made up of dense fibrous tissue and is inelastic.
- The outer or major muscle is simply surrounded by loose connective tissue that moves easily over the muscle surface as the muscle profile changes.

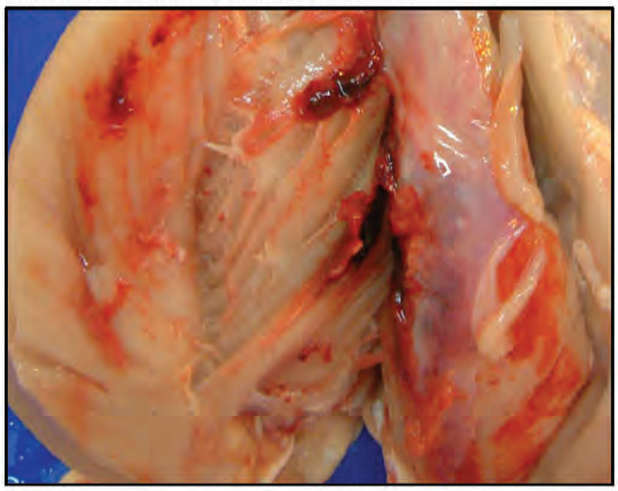
Contraction of the major pectoral muscles (the breast fillet) and the minor pectoral muscles (the tender) are responsible for the up- and down-strokes of the wings. During contraction, these muscles expand with increased blood supply (i.e. muscle pumping). The expansion of the minor pectoral muscle, by as much as 25% in volume, is problematic because this muscle is confined in a 'tight compartment', sandwiched between bone (the sternum) and the large breast fillet. The minor pectoral muscle is also encased in a rigid fibrous sheath which restricts increases in muscle volume. Therefore, when intramuscular pressure increases to levels above circulating blood pressure, the blood supply flowing into the muscle stops and, with continued muscle activity, oxygen deficiency rapidly develops and lack of oxygen (ischaemic necrosis) of the muscle fibers occurs. There is also an additive effect as the muscle pH falls. Typically the middle third of the muscle is involved. In experimental studies, relatively short periods of wing flap are enough to induce these degenerative changes.

Recognition and Identification of the Development Stages in DPM

In response to complaints of DPM from the processing plant and/or customers, an investigation should be organized. This should include the identification of the category of DPM (fresh or old) at the processing plant. This information can then be correlated to husbandry management practices.

Category 1: The acute inflammatory lesion in which the deep pectoral muscle is very red and hemorrhagic. Hemorrhages also appear on the fibrous sheath (see **Figure 2**). There is an obvious suffusion of serous fluid in the area of the damage making it appear wet. This stage is likely to be associated with a handling event (e.g. catching) and will be present for about 48 hours.

Figure 2: Early Acute Pectoral Myopathy



Category 2: At this stage the lesion in the inner fillet has become well defined and is sometimes circumscribed by a hemorrhagic ring (see **Figure 3**). The affected areas are pale pink to plumb colored and there are clear changes consistent with early coagulative necrosis of the muscle, when the tissue texture becomes fibrous. This is sometimes described as 'fish flesh'. This stage will continue for a few days after the initial event or incident.

Figure 3: Pectoral Myopathy - developing lesions

Category 3: This stage reveals the progressive degeneration and greening of the damaged tissue (see **Figure 4**). Often, only the middle part of the fillet is involved and the progressive greening is in parallel with the loss of cellular structure, so that a 'putty like' consistency develops within the lesion. This green, necrotic area will persist and through time will gradually reduce in size as it is reabsorbed so that the symmetry of the breast is lost in some older birds. The green color is produced by the breakdown of hemoglobin and myoglobin to bile salts.

Figure 4: Aged Pectoral Myopathy

Factors affecting the occurrence of DPM

The pectoral muscles make up nearly a quarter of the total liveweight in current-day meat chickens. Rearing broiler chickens to heavy market weights can increase the probability for occurrence of DPM. Incidence is dependant on management and husbandry systems and not simply bodyweight as birds at any age or weight can be affected.

DPM is associated with the following factors:

- Excessive wing flapping
- Heavy market bodyweight
- Sex: incidence can be higher in males compared to females
- High white meat yield
- Rapid growth rate

The desirable efficiency in growth and anatomy of today's broiler brings with it the possibility of DPM development.

Commercially raised broiler chickens are kept relatively comfortable and inactive during the growing period. Consequently, the pectoral muscles are not exercised enough to increase efficiency of the circulatory supply to the muscles and to allow the expansion of the surrounding fibrous sheath. It is doubtful that even a subtle amount of wing activity would help improve circulation or develop the sheath adequately.

Few, if any, processing plants actually track or document the incidence of DPM on a regular basis. Detection of DPM on whole carcasses and parts is extremely difficult as lesions are not visible during carcass inspection or sorting. As birds also exhibit no symptoms, finding affected live birds in a flock and treating them is not possible.

The key to avoiding the DPM lies with preventative management. Controlling the incidence of DPM hinges upon identifying and eliminating certain flock management issues that contribute to the development of the condition.

The key to reducing the incidence of DPM lies in management of the broiler flock and minimizing wing flapping.

To avoid the occurrence of DPM, the following flock management guidelines **(Table 1)** are suggested as starting points to investigate and minimize any unnecessary wing activity.

Table 1: Flock Management Guidelines to Minimize Unnecessary Wing Activity

Do Not Stress or Frighten Birds	Limit Sudden and Excessive Wing Exercise	Control Overall Flock Flightiness
Do not allow other animals in or around the house.	Avoid excessive human activity in the house, especially if the birds are flighty.	Bird activity and flightiness increases with increasing natural day length.
Eliminate novel sounds (buzzing security lights, sudden use of noisy ventilation fans, tractor/ generator operation in/ near houses).	Avoid walking birds too fast, especially when migration barriers (nets, pipes or fences) are used; this may cause the birds to pile up.	Birds respond to increased light intensity with increased activity. Blue curtains may help calm the flocks in curtain-sided facilities.
Limit weighing or penning birds. Weigh birds in a bucket (or similar) instead of by legs.	Train personnel for gentle bird handling techniques during catching. Do not catch birds by their wings.	In environmentally controlled houses, avoid sudden and excessive increases in light intensity with dimmers - especially under low light intensity (<3 lux) conditions.
Avoid excitement induced by frequent thinning of flocks.	Keep birds comfortable during transport to the processing plant. Low crate stocking densities can cause problems. Prevent any unnecessary bird movements when crated. Automatic catching systems can exacerbate wing flapping depending on the system used.	Avoid extended periods (>3-4 hours) of feed and/or water withdrawal.
In tunnel ventilated houses use migration fences approximately 100 ft (30 m) apart.		Intermittent lighting programs can be a potential problem due to frequent bird stimulation.
		Ensure that stocking density, feeder and drinker space are adequate.
	Minimize birds perching on swinging equipment such as feed tracks which allow birds to flap.	A dawn to dusk type dimmer offers a gradual increase in lux.

About the Authors

Dr S.F. Bilgili is Professor and Extension Scientist in the Department of Poultry Science at Auburn University, Alabama, USA. His current responsibilities include developing and implementing outreach and research programs in the areas of broiler processing technology, slaughter and processing efficiency, broiler carcass quality and meat yield, food safety and animal welfare. He has authored or co-authored numerous articles in scientific and trade journals and serves on several industry and academic committees. He is currently Chairman of the National Chicken Council Animal Welfare Scientific Advisory Committee.

Dr Joseph Hess is an Extension Specialist and Associate Professor in the Poultry Science Department at Auburn University, Alabama, USA. His research focuses on practical aspects of management and nutrition in broilers and broiler breeders and he engages in practical research projects that can provide immediate feedback to the industry in terms of poultry performance, product quality or feed technology. He is a member of the Poultry Science Association, the Southern Poultry Science Society, the Alabama Poultry & Egg Association and works closely with the Alabama Feed & Grain Association.

SWISS CHEMIE

SWISS POULTRY VITAMINS

- SWISS VITAMIN - A
- SWISS VITAMIN - E
- SWISS VITAMIN - C
- SWISS VITAMIN - K
- SWISS VITAMIN - D2
- SWISS VITAMIN - B2
- SWISS VITAMIN - B9
- SWISS VITAMIN - D3
- SWISS VITAMIN - B5
- SWISS VITAMIN - B1

SWISS ANTIBIOTICS

- Amoxicillin
- Ciprofloxacin
- Doxycycline
- Albendazole
- Fenbendazole
- Lincomycin Hcl
- Azithromycin
- Tiamulin 10/45/80
- Oxytetracycline
- Enrofloxacin
- Tetracycline Hcl
- Levofloxacin

Contact Us :

What app No.

+91 8090693995, +91 7380688804, +91 7380730134

email : sales@swisschemie.co Website : www.swisschemie.com

Ravioza Biotech Makes a Significant Impact at Poultry India Expo 2025

Showcasing Innovation, Strengthening Global Partnerships & Expanding Manufacturing Capability

Ravioza Biotech, a leading organization in livestock health and productivity solutions, demonstrated its technological excellence and growth vision at Poultry India Expo 2025, South Asia's most prominent poultry industry exhibition. The event took place from November 25–28, 2025, in Hyderabad, hosting over 500 exhibitors and attracting more than 50,000 professionals from around the world.

A distinguished delegation represented Ravioza Biotech at the event, including:

- Dr. Dinesh Arora, Managing Director
- Dr. Jitendra Verma, Technical Director
- Mr. Mohit Arora, Director
- Mr. Sunil Saxena, General Manager – Sales & Marketing
- Dr. Deepak Mukati, Technical Manager

They were joined by domestic and international marketing teams, as well as key global business associates—reflecting the company's expanding international presence.

Strengthening Industry Collaboration

Throughout the expo, the Ravioza Biotech team engaged with consultants, integrators, farmers, nutritionists, feed manufacturers, and industry decision-makers to explore collaborative opportunities. These interactions further reinforced relationships and promoted the adoption of advanced poultry health technologies across the value chain.

Major Announcement: New Manufacturing Facility in Central India

During the exhibition, Dr. Dinesh Arora, Managing Director of the Progressive Group of Companies, announced the establishment of a new state-of-the-art manufacturing facility in Indore,

Central India. The plant will operate under the BIOZENE brand, in technical collaboration with Direcocon (The Netherlands)—a globally recognized name in livestock care solutions.

Key Highlights of the Facility:

- 51700 sq. ft. modern production infrastructure
- ISO 9001:2008, GMP, and FAMI-QS certifications

- Capability to manufacture powder and liquid formulations
- Designed to meet global quality and regulatory standards

This development represents a strategic move to strengthen manufacturing excellence, enhance supply capabilities, and support global market expansion for the Progressive Group of Companies.

Commitment to Industry Advancement

Ravioza Biotech continues to lead with innovation and remains dedicated to supporting poultry farmers with scientifically advanced, sustainable solutions. Their strong participation at Poultry India Expo 2025 reflects a long-term commitment to improving poultry productivity, profitability, and overall industry growth.

Cop-AP Plus

A Power Protective Antifungal, Antitoxin Formula

Fungal Problem in Poultry

High humidity & high temperature contributes significantly towards the occurrence & spread of Fungus

CHICKS:
a. Stunted Growth
b. Diarrhoea
c. Morbidity & Mortality

TOXICITY IN FEED:
a. Fungus in Maize?
b. Fungus in DORB and other raw materials?
c. Drop in Egg production in Layers?
d. Drop in Weight gain in Broilers?

HATCHERY:
a. Wood wool contamination?
b. Setter, Hatcher trays contamination?
c. Gunny cloth contamination?
d. Drop in Hatchability?
e. Poor Chick Quality & Mortality?

Solution lies in using **Cop-AP Plus**

Cop-Ap-Plus is acidified copper sulphate in liquid form

Benefits:

- Can be given in drinking water.
- Acidification increases potency of copper manifold.
- Higher potency for longer duration due to better storage than powder copper.
- No lumps formation.
- No toxicity risk as compared to powder copper.

Highly recommended from June-October due to high humidity & high temperature.

For Further details please contact: **Dr. Naresh Gupta, Saurabh Gupta**

Centay India
SAURABH POULTRY
Research & Breeding Farm Pvt. Ltd.

B-1/5, Glaxo Apartments, Mayur Vihar, Phase-1 Ext., Delhi-110091, INDIA.
E-mail: saurabhpoultries@gmail.com **www.centaysprbf.com**
Mobile: +91 9717922722, 9999887937

HUVEPHARMA

Gratitude & Highlights: Huvepharma at Poultry India 2025

The curtains have closed on the Poultry India Exhibition 2025, and we are energized by the incredible momentum generated over these dynamic days. Our participation was a resounding success, defined by meaningful connections and a shared vision for the future of the industry.

We extend our deepest gratitude to the remarkable community of professionals, partners, and pioneers who visited our stall. Your presence, curiosity, and collaborative spirit were the driving force behind the vibrant atmosphere and insightful exchanges we witnessed.

To every delegate who engaged with our team: thank you. The discussions we shared went beyond the conventional—they were strategic dialogues filled with valuable perspectives and a mutual passion for innovation and excellence in poultry health and nutrition.

The team of Huvepharma wishes to express our heartfelt thanks for your partnership, which is the cornerstone of our progress. The connections made and strengthened at this year's exhibition are invaluable, and we are thrilled by the opportunities they present.

As we move forward, we carry with us the inspiration and insights gathered. We are more committed than ever to supporting your goals with advanced solutions and unwavering partnership.

Thank you for making Poultry India 2025 a landmark event. We look forward to building on this momentum together.


HUVEPHARMA
HUVEPHARMA
HUVEPHARMA
HUVEPHARMA

HUVEPHARMA

Huvepharma SEA (Pune) Pvt. Ltd.
42, 'Haridwar', Road 2 A/B, Kalyani Nagar, Pune 411006
Customer Care Contact: +91 20 2665 4193
Email: salesindia@huvepharma.com

Follow us at: huvepharma SEA


Dhopeshwar
Innovations for Poultry
Zero discharge solutions for
Poultry Processing Plants &
Waste Rendering Plants
Process plants exported to 24 countries
Get in Touch
www.dhopeshwar.in
sales@dhopeshwar.in
+91 93910 58963 | +91 96521 58908

Poultry Processing Plant

For Highest Hygiene and Best Quality Meat

Different Capacities: 1000 to 16000 birds per day

For dressed birds: With skin and without skin

- Fully conveyorised
- Hybrid Conveyor
- Dressing Equipment
- Retail dressing Equipment

Hot Water Scalder

Fully Conveyorised

Poultry Waste Rendering Plants

Eliminate Waste | Advanced Odour Control System

Different Capacities: 250 to 4000 kg per batch

- Layer / Breeder Manure
- Hatchery Waste
- Slaughter Waste
- Farm Mortality

Digestor- Cooker- Dryer

Odor Control System

MAKE IN INDIA

TÜV SÜD ISO 9001

17th Edition of Poultry India 2025 Concludes with Thumping Success with 53,000 Visitors Turnout


Shri. Tarun Sridhar, IAS (Retd.)


Shri. Sanjeev Gupta, Vice President of Poultry Federation of India (PFI),


Dr. Jaiswal, IB Group


Shri. Bahadur Ali, Chairman of All India Poultry Breeders Association (AIPBA),


Dr. Vijay Makhija, K-day Committee


Shri Jitendra Varma, President of WVPA


Dr. Alain El Ramy,
Head of Animal Quarantine Department
Republic of Lebanon, Ministry of Agriculture


Dr. Mohamad Sokarie,
Head of Animal Husbandry Service
Republic of Lebanon, Ministry of Agriculture


Kahanawita Widanalage Ruvini Lakshika Wijewardhana
Livestock Development Officer,
Department of Animal production and Health, Sri Lanka


Michael Julian Madeley, Director General
World Egg Organisation - U.K.


Dr GCS Kurugala, Livestock Extension Specialist,
Poultry Specialist Director HRD (C.U.)
Department of Animal Production and Health - Sri lanka


Hon. Kyakulaga Fred Bwino - Uganda Minister,
Ministry of Agriculture, Animal
Industry and Fisheries


Dr. Harry Swatson,
Secretary, African Poultry Network of the WPSA
(WPSA-APN) South Africa.


Dr E. Fallou Guèye, President,
African Poultry Network of the (WPSA-APN),
Dakar, Senegal


Prof. Emeritus Dr. Aini Ideris
World Veterinary Poultry Association (WVPA)
Member, Executive Committee - Malaysia

Powering Global Poultry Innovation

The Indian Poultry Equipment Manufacturers' Association (IPEMA) successfully hosted the 17th edition of Poultry India Expo 2025 from 25-28 November at the HITEX Exhibition Centre, Hyderabad. This year's expo concluded on an exceptional scale, marked by robust global participation and significant industry collaborations. The event further strengthened its standing as one of the world's most influential platforms for poultry innovation, trade, and knowledge exchange.

India's Rise as a Global Poultry Leader

India streng-thened its global standing in poultry-ranking 2nd in egg production (142.77 billion, 2023-24) and remaining among the top four broiler-producing nations. The sector continued to contribute to national nutrition security, rural employment, and economic progress, sustaining a growth rate of 8-10% in chicken meat and 6-8% in eggs annually.

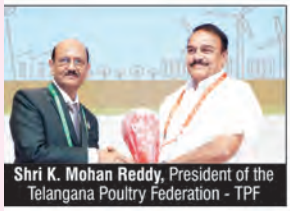
Driven by the theme "One Nation, One Expo," the expo successfully accelerated innovation, collaboration, and knowledge exchange across the poultry value chain.

Stronger Global & National Alliances

The 17th edition proudly collaborated with:

- 16 overseas poultry associations
- 40+ national-level poultry bodies
- 18 national poultry media houses
- 15 global media organizations
- 100+ mainstream & digital influencers

These partnerships amplified technological advancements, farmer



Shri K. Mohan Reddy, President of the Telangana Poultry Federation - TPF

Shri. Vijay Teng, President of Indian Federation of Animal Health Companies (INFAH)

Shri Sanjay Nalgirkar, President of Poultry Farmers & Breeders Association (PF & BA)

Shri Madan Mohan Maity, General Secretary of WBPF, Chairman of Poultry Fairs

Mr. Sanjeev Chintwar, AGM, Business, NECC

Shri. O. P. SINGH, Managing Director, Huvepharma Sea. Managing Director, Advance Bio Agro Tech Ltd. Director, Norel Nbpl India Pvt Ltd.

Shri P.K. Shukla, President of Indian Poultry Science Association(IPSA)

Dr. Ajay Deshpande, President of Vets in Poultry

Shri Naveen Pasuparthy, President of KPFBA

Mr. Divya Kumar Gulati. President of the Cifma

Insightful talk by **Prof. Shri Suresh Mittal** on HPAI vaccines

Insightful session by **Shri. Sunil Kataria** on value creation

Insightful address by **Shri. Tarun Sridhar,** IAS (Retd.), that set the tone for Poultry Knowledge Day 2025.

Power-packed session by **Shri. Deepak Pareek** on global market dynamics shaping India's poultry sector

Compelling session by **Shri. Ravi Kumar Banka** on unlocking rural broiler markets

Insightful session by **Shri. Ricardo R. Guerra** on India's evolving EC housing

engagement, and global visibility, making this edition the most connected and impactful to date.

Ministers Encouraged Industry-Government Cooperation

- Chief Guest Shri Vakiti Srihari, Hon'ble Minister for Animal Husbandry, Telangana, inaugurated the event and graced the Poultry Knowledge Day sessions held on 25 November.

From 26-28 November, the Poultry India Expo was further honoured by the presence of Telangana's distinguished leaders, whose support reinforced strong industry-government collaboration and sectoral advancement.

- Shri Ponnam Prabhakar Goud, Hon'ble Minister for Transport & BC Welfare, Telangana, reinforced commitment toward sustainability and sectoral progress
- Shri Tummala Nageswara Rao, Hon'ble Agriculture Minister, Telangana, extended strong support for rural market empowerment and future-ready transformation.
- Shri Ponnala Lakshmaiah, Hon'ble Former Minister, graced the expo with his presence, visiting the exhibition halls and inspiring industry stakeholders with his words of motivation.
- Shri Gaddam Ranjith Reddy Hon'ble Former Minister, visited the expo showing strong support for South Asia's biggest poultry stage.
- Dr. K. Lakshman,Member of Parliament visited the 17th

Poultry India Expo 2025, graced the expo and inspiring industry innovation and growth

Words of Pride from IPEMA Leadership

"IPEMA's continued ability to inspire innovation and unite global and national stakeholders has shown the true momentum of India's poultry sector. The alliances forged this year reaffirm our industry's future-ready vision."

- Shri Uday Singh Bayas, President, IPEMA / Poultry India

17th Edition - A Record-Breaking Showcase

The expo delivered outstanding milestones:

- 550+ exhibitors from 50+ countries participated
- 51,251 industry visitors attended
- 35,000 sq. meters of exhibition space filled 7 air-conditioned global-standard halls
- Live innovations were showcased across:
  - Breeding & genetics
  - Hatchery & farm automation
  - Feed milling & advanced nutrition
  - EC housing & ventilation
  - Veterinary diagnostics & biosecurity
- Sustainable egg processing
- Manure & green poultry solutions

The event also addressed emerging concerns in poultry health, sustainability, raw material volatility, and smart technology adoption.

Thought Leadership - Poultry Knowledge Day 2025

The flagship seminar successfully focused on:

- Emerging diseases & prevention strategies
- Future-ready feed planning
- Manure & sustainability frameworks
- Rural market potential
- Poultry career evolution for future talent

Advancing Toward Viksit Bharat 2047

Aligning with the Hon'ble Prime Minister Shri Narendra Modi's vision of Viksit Bharat 2047, the expo empowered farmers, entrepreneurs, veterinarians, researchers, students, and global business leaders to accelerate the next era of poultry transformation.

Legend in Poultry – Lifetime Achievement Award
Honoured to celebrate **Dr. D.Chandrasekaran,** M.V.Sc., Ph.D., Professor of Animal Nutrition (Retd.), TANUVAS, for his lifelong contributions to poultry nutrition and industry growth.

Shri Ponnala Lakshmaiah, Hon'ble Former Minister

Shri Tummala Nageswara Rao, Hon'ble Agriculture Minister, Telangana

Shri Ponnam Prabhakar,
Minister of Transport and BC Welfare, Government of Telangana

Shri Bandla Ganesh, Film Actor & Producer, Poultry entrepreneur

Shri Gaddam Ranjith Reddy, Hon'ble Former Minister

Dr. K. Lakshman, Member of Parliament

Smt. Shreeroopa, IAS, Director of Sericulture & Commissioner of Animal Husbandry, Govt. of Karnataka

Shri D. Ram Reddy, M.D. of Sneha Farms

Chlortetracycline Annual Capacity 100000 MT

Jinhe

A publicly listed company
Stock Code: 002688

Jinhe CTC products are rigorously tested using the **High-Performance Liquid Chromatography (HPLC)** method to confirm their potency & purity of CTC 15%, which is essential for effective treatment.

For effective disease control & sustainable farm management, it is vital to choose genuine **Jinhe CTC** that has been tested and verified for quality.

Comparison between Fake CTC and Real CTC			
Item number	Criteria	Fake CTC	Genuine CTC
1	Smell	Dust-like smell, unpleasant, sometimes musty	Natural fermentation odor, no unpleasant smell
2	Color	Grey granule	Brown to dark brown granule
3	Characteristic	Non-compliant; granule texture too uniform; 0 CTC content	Not lumpy or moldy, relaatively uniform texture, compliant with standard
4	Consequences	Poor therapeutic effect, potential for resistance, damage to livestock health	Effective treatment, stable performance in disease prevention and control
5	Benefits	Lower purchase cost (Apparent Advantage)	Proven efficacy, safety, stable quality, improves farm productivity, high cost-effectiveness
6	Risk of using Fake CTC	Ineffective treatment, disease outbreaks, higher mortality, economic loss	/

Growth Stage	Susceptible Diseases	Typical Symptoms	CTC Dosage	Drug Combination	Treatment course
Chicks (0–6 weeks)	Necrotic enteritis	Black feces, depression, emaciation	2 kg	80% tiamulin fumarate premix 300 g	7 days, rest 3 days, repeat for 7 days
Chicks	Colibacillosis (airsacculitis/ septicemia)	Dyspnea, depression, cloudy air sacs		/	7–14 days
Growers	Chronic respiratory disease (CRD) with Mycoplasma or E. coli	Sneezing, open-mouth breathing, reduced egg production		/	7 days
Adult layers	Salpingitis or egg production decline syndrome (secondary infection)	Reduced egg production, soft-shelled eggs, feather loss		80% tiamulin fumarate premix 300 g	7 days
All stages	Mycotoxin-induced immunosuppression and secondary infections	Slow growth, diarrhea, high mortality		/	7 days

Fake CTC, on the other hand, is not subjected to such testing, and the final product often **lacks the required 15% CTC content**. This lack of quality control is the primary reason for **treatment failures** and other associated risks in Poultry Industry.

Using Fake CTC **endangers animal health**, increases the risk of **antimicrobial resistance**, and leads to serious **economic consequences**.

Farmers and veterinarians should always **verify product authenticity** and **rely on trusted suppliers** to safeguard both animal welfare and farm profitability.

Jinhe Biotechnology Co, Ltd.

No. 71 Xinping Road, Tuoketuo County, Hohhot City, Inner Mongolia, China

Email: gsm@jinhe.com.cn
monusai@tenetpharmavet.com
Tel: +91-9819083711

TeneT

HEALTHY ANIMALS, HAPPIER FARMS

Tenet Pharmavet LLP, headquartered in Mumbai, is a distinguished name in the Poultry and Animal Feed Industry. With over 15 years of experience, we have established ourselves as reliable partners for businesses seeking excellence in veterinary products and solutions. Our core expertise spans across Amino Acids, Veterinary Premixes, Pigments & Vitamin Premixes.

AMINO ACIDS

L - Lysine Monohcl 98.5%	L - Lysine Sulfate 70%	L - Valine 98.5%
L - Threonine 98.5%	L - Isoleucine	L - Tryptophan 98.5%

NUTRITIONAL ADDITIVE

Betaine Anhyrous	Betaine Hydrochloride 98.5%	Choline Chloride 60% Corn Cob
Choline Chloride 50%	Silica Basedl-Methionine 99%	Methionine Hydroxy Analogue 88%
Mono Calcium Phosphate 22.7%	Mono DI-Calcium Phosphate 22%	

PIGMENTS & COLORANTS

Canthaxanthin 10%	Astaxanthin 10%	Apo-Ester 10%
Xanthophyll 2% & 4%	Beta-Carotene 10%	Tartrazine

ANTIBIOTIC FEED PREMIX

Avilamycin 10%	Nosiheptide 1%	Chlortetracycline 15%
Tiamulin Fumarate 10%	Enramycin 8%	Tiamulin Fumarate 80%
Flavomycin 8% (Bambermycin)	Tylosin Phosphate 10%	Tincomycin Hcl 11%
Tylvalosin 10% & 17%		

COCCIDIOSTAT

Clopidol Pure & 25%	Monensin 20% & 40%	Decoquinate 6.6%
Monensin + Nicarbazin	Diclazuril Pure & 0.5%	Robenidine HCL 10%
Dinitolmide 6%	Nicarbazin 8% & 25%	Nicabazin + Maduramicin
Salinomycin 12%	Maduramicin Ammonium 1%	Lasalocid 15%

VITAMINS

Vitamin A Acetate 500,000	Vitamin B7 Biotin Pure / Biotin 2%	Vitamin A Palmitate 1.7 IU & 1.6 IU
Vitamin B8 Inositol	Vitamin AD3	Vitamin B9 Folic Acid
Vitamin B1 HCL & Mononitrate	Vitamin C Plain / Coated	Vitamin B2 80%
Vitamin C 35% Polyphosphate	Vitamin B12 1% UV & HPLC	Vitamin D3 4.0M IU/GM
Vitamin B3 Niacin / Niacinamide	Vitamin D3 5.0M IU/GM	Vitamin B5 Calcium Pantothenate
Vitamin E 50% / 95% / 98%	Vitamin B5 D-Panthenol	Vitamin K2 MK-7
Vitamin B6 Pyridoxine HCL	Vitamin K3 MSB / MNB	

Customized Vitamin Premix also available on request

TENET PHARMAVET LLP

+91-9987128190, +91-9819217106 | imports@tenetpharmavet.com | www.tenetpharmavet.com

Mumbai, Maharashtra, India

VIV MEA 2025 Concludes Successfully: A Global Gateway Driving Food Security and Innovation in the MENA Region

- Ricky Thaper

VIV MEA 2025 reaffirmed its position as the premier B2B platform for the feed-to-food industry in the Middle East and Africa, welcoming 10,830 professional visitors and 144 industry leaders from over 110 countries. Held from November 25-27, 2025 at ADNEC, Abu Dhabi, the event featured 505 exhibitors from 49 countries, showcasing cutting-edge solutions and technologies for animal protein production, animal health, breeding and hatching, croptech-feedtech, food engineering, feed ingredients and additives, aquaculture, and related sectors.

Mr. Jeroen van Hooff, President & CEO of Royal Dutch Jaarbeurs and VNU Group, shares his great optimism towards VIV MEA and its future. "VIV MEA is a vital engine driving the conversation around global food security. The immense participation this year, together with the focus on sustainable solutions and smart technology, clearly demonstrates the commitment of the region to overcome challenges. We are proud to be an enabling platform for a resilient, self-sufficient, and technologically advanced food system for the next generation. The UAE's strategic vision and investment in food security innovation make it an indispensable partner in shaping the future of agriculture across the region and beyond. The energy from this edition carries us forward with great optimism towards our next gathering."

Over three days, VIV MEA delivered a vibrant marketplace for knowledge exchange, networking, and business development. Industry leaders, innovators, and decision-makers gathered to explore trends, forge partnerships, and discover solutions shaping the future of livestock, poultry, dairy, aquaculture, and related industries. The show's strategic partnership with the Abu Dhabi Agriculture and Food Safety Authority (ADAFSA) reinforced its commitment to advancing the region's feed-to-food industry, focusing on food safety and sustainable agricultural development.

Attendees engaged in a comprehensive program featuring over 30 conference sessions with 130 speakers which were mostly free-to-attend. Furthermore, the Cities Leading Food Production Roundtables brought together international delegates to discuss critical topics spanning governance, technology innovations, water

management, and regenerative agriculture; while the Poultry Marketing Round Table (PMRT) tackled intelligent water management in poultry farming.

This time there was significant participation from delegates from South Asia, representing the feed millers, poultry breeders and pharmaceutical firms. The visitors found the exhibition to be highly informative, gaining insights into cutting-edge technologies and logistical advancements. VIV focuses on bringing together supplier and buyers from Feed to Food under one roof. This includes feed (ingredients) and animal health, animal husbandry, equipment for breeding, farming, slaughtering, processing and much more.

The prominent Indian companies who exhibited at VIV MEA 2025 were Nurture Technology Pvt Ltd, Optima Life Sciences, DSAND Animal Nutrition Pvt. Ltd., PVS Group of Companies, AMORVET, Devee Group, ABTL Enzymes-Animal Health & Nutrition, Elpe Labs, Rivansh Animal Nutrition Pvt. Ltd, Natural Herbs &Formulations Pvt. Ltd.,Vinayak Ingredients Pvt. Ltd., and many others.

This year VIV MEA 2025 hosted three prominent international pavilions featuring the latest innovations from the United States, France and Korea. VIV MEA, continue to focus on innovation, bringing together buyers and sellers of the latest technologies and products to ensure the success of trade visitors' businesses. According to the Indian delegation, the visit to VIV MEA was informative and certainly worthwhile. Delegates took the note of the latest innovations in and see how the technologies could apply at Indian poultry producer level as some of these innovations could well be adopted by Indian poultry producers.

The VIV worldwide team and its partners extend their gratitude to the exhibitors, attendees, and supporters who contributed to making VIV MEA 2025 a massive success. VIV MEA is a part of the VIV Worldwide portfolio and is organized by VNU Europe, the international division of Royal Dutch Jaarbeurs.

Now the new edition of VIV worldwidein partnership with the Poultry Federation of Indiawill be VIV Select India- a premier Feed to Food trade show catering to the Indian animal protein and livestock industry. The event will take place from April 22-24, 2026, at the Yashobhoomi Convention Centre in New Delhi, India.According to Mr. Patrick vanRooij, Project Manager,VIV Select India is a chance to engage deeply with industry leaders, understand emerging trends andexplore how we can build lasting partnerships thatdrive real value across the livestock sector.

NUQO© Concludes a Successful Participation at Poultry India 2025

NUQO successfully concluded its participation at Poultry India 2025, held from 26th to 28th November in Hyderabad, marking a memorable presence at one of Asia's leading poultry exhibitions. This year's engagement was particularly special as NUQOANIMAL NUTRITION INDIA PVT. LTD. showcased its latest innovations from a dedicated booth, strengthening its visibility and connections within the Indian poultry sector.

The event brought together leaders from across the poultry value chain. NUQO's booth received an overwhelming response from customers, technical experts, and business partners. The strong footfall and quality interactions highlighted the growing interest in NUQO's science-driven solutions and its commitment to advancing animal nutrition in India.

NUQO's participation was further elevated by the presence of its global leadership team, with GuillaumeEtave, Global Commercial Director and Dr. Stephanie Ladirat, Global Technology Directorjoining the India team throughout the event. Their insights, interactions, and customer engagements reinforced NUQO's global expertise and dedication to the Indian market

Leadership Comments:

Dr. Stephanie Ladirat – Global Technology Director

"Poultry India 2025 was an excellent opportunity for us to connect directly with customers and understand the challenges and expectations of the Indian market. The interest shown in our technologies, particularly NUQO© NEX, NUQO© SAFE and NUQO© RED, reaffirms the importance of delivering innovative and sustainable solutions. We are excited to deepen our technical collaborations in India."

Guillaume Etave – Global Commercial Director

"The engagement and energy at Poultry India were exceptional. India is a dynamic and fast-growing market, and the conversations we had reflect the strong confidence customers are placing in NUQO's approach. We look forward to supporting our partners with solutions that add real value to both poultry producers and integrators."

Neeraj Kumar Srivastava – Managing Director, South Asia

"Poultry India 2025 has been an important platform for us to engage with customers and showcase the strength of NUQO's portfolio. The response we received confirms that the Indian market is ready for innovative, research-backed new technologies. We remain committed to partnering closely with producers and supporting their long-term performance goals."

Dr. Krishnamurthy – Commercial Director, South Asia

"Our presence at Poultry India was extremely positive. Customers showed great interest in understanding how NUQO's micro-encapsulated plant and marine bioactive extracts can address practical field challenges. The technical conversations we had during the event reflect the industry's growing focus on sustainable and efficient nutrition solutions. We look forward to deepening these engagements in the coming months."

Reena Rani – Head of Marketing, South Asia

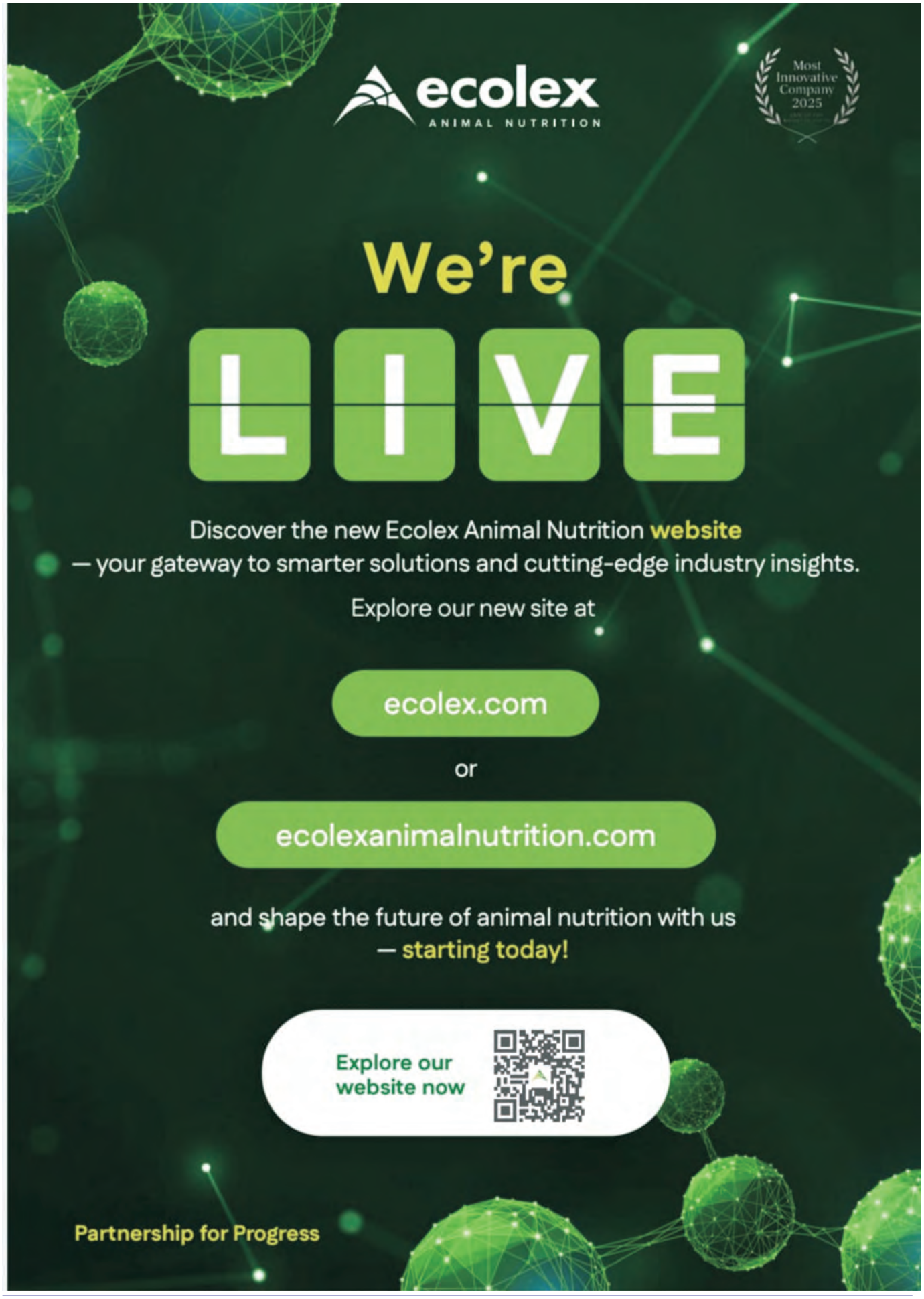
"This event was a milestone for NUQO in India. The response to our booth, our brand, and our solutions has been overwhelming. It is encouraging to see the industry's acceptance of NUQO's science-driven innovations within such a short time. Our presence at Poultry India has strengthened our visibility and opened new avenues for collaboration across the value chain."

NUQO also utilised the platform to share updates on its flagship solutions, including NUQO© NEX, NUQO© SAFE,NUQO© RED, and NUQO© Min Sel 3000,along with discussions around upcoming initiatives aimed at supporting producers with cutting-edge technologies.

NUQO team expressed gratitude to all visitors, customers, industry partners, and media for their support and looks forward to further collaborations in the coming months.

About NUQO©

NUQO©is a pioneer in combining phytogenics&phycogenics with a unique and cutting-edge micro- encapsulation technology that preserves efficacy and ensures optimal release of active ingredients.Based on this expertise, NUQO©promotes various solutions that help professionals to better address challenges related to performance, health or welfare of animals.


ecolex
ANIMAL NUTRITION
Most Innovative Company 2025
We're
LIVE
Discover the new Ecolex Animal Nutrition website
— your gateway to smarter solutions and cutting-edge industry insights.
Explore our new site at
ecolex.com
or
ecolexanimalnutrition.com
and shape the future of animal nutrition with us
— starting today!
Explore our website now
Partnership for Progress

SAI KRISHNA
POULTRY EQUIPMENTS
Manufacturers of Innovative Poultry Equipments

Innovating Poultry Solutions for a Better Tomorrow

17th EDITION
POULTRY INDIA
OUR INDUSTRY SHOW
26 • 27 • 28
NOVEMBER 2025
Meet us @
Hall-4 (X1 to X10)

We Manufacture

- All Kinds of Manual Poultry equipment
- Automatic Nipple Drinking System
- Automatic Pan Feeding System
- Poultry transportation System
- Environmental Control System
- Curtain winching Systems
- Heating Systems
- Cooling Systems

SAI KRISHNA PLASTIC INDUSTRIES

Factory : IP Kondapur, Kondapur Village, Medak Dist-502336,TG.
Factory : Behind Petrol Bunk, Padma Nagar, Karimnagar-505002,TG.
Sales Depot : Mamatha Nagar, Nagole, Hyderabad, TG.

Mobile : 94404 06200, 98490 59508, 92466 59508, 9030059508
E-mail : info@saikrishnapoultry.com, Web : www.saikrishnapoultry.com

Poultry Science Conference organised by WPSA UAE Branch proved to be a True Milestone

- Ricky Thaper

The landmark conference, organized by the World Poultry Science Association (WPSA) UAE, brought together over 200 global industry leaders, researchers, and policymakers to address pressing food security challenges.

Among the technology innovators presenting breakthrough solutions, to share knowledge and explore the future of sustainable poultry production. Beyond the science and data, what truly drives progress in our field is the power of networking, shared learning and meaning full collaboration.

The Eminent speakers at this conference included Dr. Nasir Mukhtar, Conference Secretary, Dr. Peter van Horne, Secretary General, WPSA (Netherlands), Mr. Kevin Roepke. Executive Director, MENASA-USSEC, Dr. M. Reza Abdullahi, Professor of Poultry Nutrition, Massey University, New Zealand, Mr. Russel Sadati, La Meccinica, Italy, Dr. Jean Paul Ruckebusch, France, Dr. Miriam Alberto Tempra, Australia, Mr. Nan-Dirk Mulder, USA, Mr. JorgHurlin, Germany, Dr. Mathew Clark, MD, FeedGuys Resources Pte Ltd., Malaysia, Ms. ChristelleCordahi, Regional Head, Sustainability & Human Utilization, USSEC-MENSA, Mr. Ricky Thaper, India, Mr. Shakeel Ahmed, Co-Founder and COO, Poulta Inc., USA and a few others.

I had the privilege to deliver a presentation on "Driving Sustainable Growth of Indian Poultry Industry through Artificial Intelligence (AI) Tools", highlighting how India's poultry sector is adopting smart and data-driven technologies to ensure productivity, efficiency, and sustainability.

The conference offered an excellent opportunity to exchange ideas, learn global best practices, and strengthen collaborations across regions. This conference was sponsored by Al Ain Farms-UAE, Poulta Inc.-USA, Innovad Group and La Meccanica-Italy.

There were also two difference sessions on Ventilation workshop and Breeder & Hatchery Manager workshop. Congratulations to Dr. Nasir Mukhtar, Conference Secretary and WPSA-UAE Team for this valuable platform and all fellow speakers, partners and delegates for the enriching discussions as it's always inspiring to contact with passionate professionals and industry experts from around the world.

Dr S.K.Maini

Mycotoxins in the Finished Poultry Feeds

Multiple mycotoxins in finished poultry feeds originate mostly from the feed ingredients, having higher than normal levels of moisture, improperly handled, stored and transported.

Data reported as per a recent Mycotoxins Survey (2025), conducted by dsm-firmenich, states that 82 % of the samples collected and analysed were positive for the mycotoxins, their metabolites and masked toxins and some of the new and emerging combinations of mycotoxins and their metabolites.

Using the latest detection methods, the liquid Chromatography-Mass Specrometry (LC/MS)., it is reported that an on average 42 different mycotoxins and their metabolites were present in each sample. They also reported 10 out of 10 samples tested were contaminated with Fusarium toxins, another alarming information they put forth was 98 % of the tested samples contained a combination of 10 or more metabolites. All these have negative effects on the birds health, its immune system, performance and the farms profitability.

The best looking feed ingredients also contained higher than normal levels of mycotoxins and their metabolites, as a result of these the birds continue to suffer, industry experts, farmers and farm manager's blame the mutations of the field Virus, the migratory birds, new and emerging diseases, vaccine failure etc., hardly any one looks towards the actual problem of multiple mycotoxins, the presence of their metabolites, the masked mycotoxins and the new and emerging types.

Three main issues need to be attended to and looked into very seriously, (1) The proper mitigation methods for these mycotoxins, as no single toxin binder, rotation of the binders or even a combination of binders is good enough to solve the

Item	Direct Cost	Indirect Cost
Contamination with mycotoxins	Increases risk of diseases immune-suppression	Testing and monitoring is expensive
Reduced Feed birds, less weight gains,	Poor performance of the marketing, break in poor performance	Disturbance in timely efficiencyand lack of uniformity and growing cycle overall poor performance
Treatment Cost	Much higher usage of medicines and Veterinary	Difficult to market/sell sick birds cost
Reproduction in the Breeders	Poor production, fertility hatchability and liveability	Reputation and name seriously affected, future sale impacted
Morbidity and Mortality.	Sick birds don't perform, Dead birds disposal also costs money.	Confusion, loss of Confidence and financial losses

problem totally. (2) the immuno-suppression leading to vaccine failure and repeated disease outbreaks with higher than normal mortalities caused by the presence of multiple mycotoxins, their various combinations and due to the presence of their metabolites and the (3) the damage done to the Gastro intestinal tract, and the associated organs like the liver, pancreas, kidneys and the overall disturbed metabolism. Presence of multiplemycotoxins and the complications created by their metabolites, are a very serious and complicated issue for the poultry industry, not easy to understand and solve, as several systems of the birds body are simultaneously involved, in ruining its health and performance.

No single product, practice or procedure can take care of all the above mentioned issues, each one has to be adequately and appropriately tackled that involves sufficient knowledge of good management, nutrition, prevalent diseases, their prevention and control, timely and proper vaccination program, hygiene and sanitation plus a lot of common sense.

The economic impact of the damage due to the presence of multiple mycotoxins, complicated with their metabolites is very difficult to calculate, but on annual basis it runs into several thousand crores.

Listed below are some of the items that directly and indirectly impact the farm, its performance and profitability.

China Agricultural University's Professor Honored with NOVUS International Teaching Award

NOVUS representatives recently presented the company's first-ever International Teaching Award to Professor Jiangxia Zheng, Ph.D., during the Poultry Science Association's Pacific-Rim Scientific Conference. The award honors exceptional educators outside of the United States who are shaping the future of poultry science through excellence in teaching, research, and mentorship.

A faculty member at the Department of Animal Genetics and Breeding, College of Animal Science and Technology at China Agricultural University, Professor Zheng has dedicated 18 years to advancing poultry education and innovation in the full range of poultry production. She currently leads a research program in egg quality and safety.

Her extensive academic work is matched by her commitment to education. From leading research programs to mentoring doctoral, master's, and undergraduate students, Professor Zheng is known for developing future scientists equipped to solve real-world agricultural challenges.

"My teaching philosophy centers on bridging fundamental concepts with cutting-edge industry applications through vivid case studies, aiming to transform abstract theories into practical problem-solving abilities," says Professor Zheng. "I believe effective learning occurs when students not only grasp foundational knowledge but also understand its real-world relevance. This synergy cultivates both professional competence and critical thinking."

Professor Zheng's dedication is informed by her roots: family ties in rural China that drive her mission to improve farmers' lives through agricultural science. Her influential teaching style was shaped by her mentor, Professor Ning Yang, who instilled a passion for linking inquiry with practice and cultivating a global perspective.

Along with publishing over 40 peer-reviewed journal papers, Professor Zheng's other accomplishments include playing a key role as China Branch Secretary of the World's Poultry Science Association (WPSA) and contributing significantly to the successful organization of the XXV World's Poultry Congress in 2016, a milestone in international poultry collaboration.

Anna Fe Perino, NOVUS Poultry Solutions Manager for Asia, said the award was created to recognize educators advancing scientific rigor and delivering solutions that benefit producers, animals, and society.

"Dr. Zheng's commitment to advancing education in poultry science truly exemplifies the values of this award," says Perino. "In addition to a robust record of publication, Dr. Zheng is known for her commitment to undergraduate and graduate education, teaching several undergraduate courses in poultry science and mentoring dozens of master's and doctoral students in her lab group over the past nearly 15 years. Congratulations to Dr. Zheng."

NOVUS also presents its Outstanding Teaching Award to a poultry educator scientist at the Poultry Science Association Annual Meeting in the United States.

NOVUS is the intelligent nutrition company combining global scientific research with local insights to develop innovative, advanced technology that helps poultry farmers around the world get more from their flocks.

In Memoriam: Shri Chitturi Jagapati Rao

A Visionary Who Transformed India's Poultry Sector Into a Global Powerhouse

The Indian poultry industry has lost one of its most visionary pioneers with the passing of Shri Chitturi Jagapati Rao on 29 November 2025 at his residence in Hyderabad. At 92, Jagapati Rao leaves behind a remarkable legacy that fundamentally transformed backyard poultry farming into an organized, technologically advanced sector that today nourishes millions across the nation.

Born on 15 April 1933 in the village of Kulla, situated on the banks of the Godavari River in East Godavari District of Andhra Pradesh, Jagapati Rao grew up in a farming family with agricultural traditions running through his veins. His academic journey was marked by intellectual curiosity and ambition-he completed his intermediate studies in Biological Sciences and earned a graduation degree in Economics from Rajahmundry. He further pursued post-graduation in International Relations from prestigious Jadavpur University in Calcutta (1958-60) and briefly studied law alongside his advanced studies. Though he secured admission to Glasgow University in England for higher studies and later enrolled in a Ph.D. program in Delhi, Jagapati Rao's destiny lay in India's agricultural renaissance. After his marriage in 1961, he returned to his village to manage family agricultural operations, setting the stage for his eventual entrepreneurial venture.

In 1965, a pivotal year that would reshape India's agricultural landscape, Jagapati Rao moved to Hyderabad with a vision to establish commercial poultry farming. Alongside his wife Chitturi Mangayamma, he founded Srinivasa Farms on Dussera day in 1965, marking the genesis of what would become one of Asia's most respected integrated poultry companies. Starting with 10,000 birds for commercial egg production, Jagapati Rao's enterprise grew with unwavering determination and technical innovation. This early venture laid the groundwork for a transformative journey that would elevate the entire Indian poultry sector.

Under Jagapati Rao's stewardship, Srinivasa Farms evolved into a fully integrated poultry conglomerate spanning layer and broiler breeding, hatchery operations, feed manufacturing, soya processing, and chicken processing. The company's footprint expanded across 16 Indian states, creating unprecedented employment and opportunity. By the time Srinivasa Farms celebrated its diamond jubilee in October 2025-just one month before Jagapati Rao's demise-the company had become synonymous with quality, innovation, and farmer-centric values. The enterprise that began with modest ambitions had directly and indirectly empowered 9 lakh farmers and contributed to creating 6 million jobs in the poultry sector.

Jagapati Rao embodied the qualities of a true visionary-he combined technical acumen with deep industry knowledge, paired agricultural traditions with modern science, and balanced profit with purpose. His unwavering commitment to providing affordable nutrition to every Indian guided every business decision. Through his mentorship of multiple poultry groups and his active membership in the International Egg Commission, he extended his influence beyond commercial success to shape industry standards globally.

The legacy of Shri Chitturi Jagapati Rao finds continuation in his distinguished son, Suresh Rayudu Chitturi, who serves as Vice Chairman and Managing Director of Srinivasa Farms. Over more than two decades of leadership, Suresh has demonstrated that he is not merely an heir to a business but a visionary leader in his own right, carrying forward his father's mission with innovation and global perspective.

LANXESS Introduced several New Biosecurity Solutions for the Indian market at Poultry India Expo

- New products from LANXESS Biosecurity Solutions cater to the hygiene challenges in farming environments
- These will be distributed and marketed through two of LANXESS' partners Huvepharma and Alivira

Specialty chemicals company LANXESS will be introducing a range of innovative products of LANXESS Biosecurity Solutions for the Indian poultry market at the upcoming Poultry India Expo scheduled from 26th to 28thNovember, in Hyderabad. These products, namely TH4+®,BioVX™, Virkon® H20 and Glutex™ GQ1, will be launched at the expo, through LANXESS' distribution & marketing partners, Huvepharma SEA (Pune) Private Limited and Alivira Animal Health Limited (India).

Through these new products, LANXESS Biosecurity Solutions aims to bring advanced disinfection and hygiene solutions to support Indian farmers in maintaining healthier and safer farm environments.

TH4+®, a versatile broad spectrum liquid farm disinfectant and BioVX™, a multipurpose broad spectrum powder farm disinfectant will be distributed and marketed in India by Huvepharma. Virkon® H20, a multifunctional drinking water disinfectant and acidifier for Poultry and Glutex™ GQ1, a multi-purpose broad spectrum glut-based disinfectant will be distributed and marketed in India by Alivira.

LANXESS Biosecurity Solutions belongs to LANXESS group, a global specialty chemicals company headquartered in Germany. With more than 40 years of experience in the livestock industry and over 100 registered biosecurity products in its portfolio, across more than 80 countries worldwide, LANXESS Biosecurity Solutions, is committed to the health and welfare of animals.LANXESS Biosecurity Solutions researches, develops, manufactures and supplies most of the active chemical ingredients that are used in its disinfectant formulations ensuring reliable supply and highest quality.

The company operates production sites in Brazil, UK, France and Germany, all adhering to the highest European manufacturing standards. It also has exclusive manufacturing arrangements in the USA and India.Supported with its sevenspecialized biosecurity R&D centers located in the USA, Brazil, UK, France, Germany, Saudi Arabia and China,LANXESS Biosecurity Solutions is dedicated to bringing new solutions and technologies to farmers to shape the future of biosecurity.

LANXESS is a leading specialty chemicals company with sales of EUR 6.4 billion in 2024. The company currently has about 11,800 employees in 32 countries. The core business of LANXESS is the development, manufacturing and marketing of chemical intermediates, additives and consumer protection products. LANXESS has achieved leading positions in the Dow Jones Best-in-Class Index and the MSCI ESG and ISS ESG ratings, among others, for its commitment to sustainability.

NOVUS Introduces New Logos for Enhanced Brand Cohesion and Visibility

NOVUS is proud to unveil its refreshed product logos, designed to improve visibility and align with the intelligent nutrition company's corporate identity. These updates reflect NOVUS's continued commitment to delivering high-quality products that exemplify the company's philosophy, Made of More™. The new logos and colors can already be seen on company brochures, trade show booths, and website.

An example of the new logos and brand colors on product packaging. Senior Director of Global Strategic Marketing Laura Muñoz says the new look is in service of the company's diverse customer base, which includes nutritionists, poultry, swine, and cattle producers, veterinarians, as well as feed mills and distributors.

"Following a comprehensive brand evaluation last year, we identified an opportunity to enhance the readability and recognizability of our product logos in warehouses, feed mills, and on farms," she says. "The result is a new lineup of bright, eye-catching colors and bold logos that are easier to distinguish, making them more user-friendly for crews handling NOVUS products daily." This change has been years in the making. Many of the product logos were unchanged since their launch, some going back as far as the 1990s. As part of NOVUS's broader rebranding initiative that began in 2020, the company saw an opportunity to unify its product branding.

"The redesigned logos create a cohesive identity across our product line, reinforcing the connection to the corporate brand," says Megan Hayes, senior manager of marketing communications. "Customers can now easily recognize NOVUS products at a glance, with a look that reflects the company's clean, bold, and strong brand persona."

Some may wonder why the product logos were not released simultaneously with the corporate rebrand in 2023. The answer is careful planning. "Updating product packaging is a global effort requiring compliance with local regulations, trademark laws, and copyright protections," Hayes says. "Additionally, NOVUS is prioritizing sustainability by using as many pre-existing product bags as possible to reduce waste. The phased approach also allowed customers to acclimate to the new corporate branding before integrating product-level changes." The transition to new packaging will vary by region based on existing inventory levels, ensuring a smooth and efficient rollout.

PROTECT CHICKEN AGAINST FOWL POX ; SAFE TO BE APPLIED AT YOUNG AGE

A Division of
JAPFA-Indonesia

A PRODUCT OF
vaksindo
Research Based Vaccines

VAKSIMUNE® POX

Application :
Administration by wing web puncture.
Vial containing 1000 doses (10 ml) and 1 Lancet

An ISO 9001:2015 Certified Company

Corporate Office: **VAKSINDO ANIMAL HEALTH PVT. LTD.**
H No. 8-7-89/C/P-II/125, Ground floor, Chaitanya Nagar, Saroor Nagar, Ranga Reddy,
Hyderabad, Telengana- 500070. Tel: +91 40 35858744, Customer Care No: +91 4029364722
CIN : U74999TG2018FTC158341 www.vaksindo-india.com

Venworld
THE BEST IN ANIMAL HEALTHCARE

VENGEM™

(Low Pathogenic Avian Influenza (H9N2) Vaccine, Inactivated)

"Most valuable Gemstones to bestow lives of Poultry
with a pinch of little more shades"

VENGEM 9

VENGEM C 9

VENGEM SUPER 9

Technology/know-how developed at ICAR-NIHSAD

VENTRI BIOLOGICALS

(Vaccine Division of VHPL)

'Venkateshwara House', S. No. 114/A/2, Pune Sinhagad Road, Pune 411030. **Tel.:** +91 (020) 24251803, **Fax:** +91-20-24251060 / 24251077.

VENTRI