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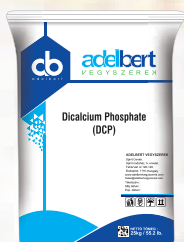
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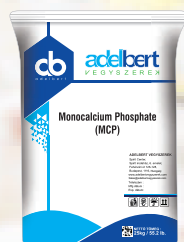
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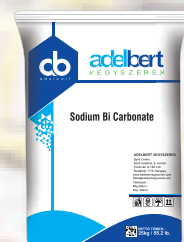
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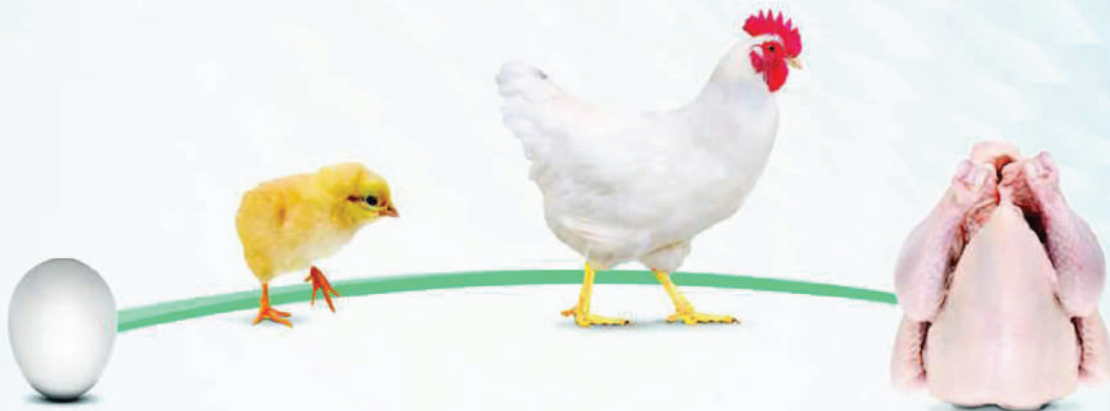

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Grand success of the India Poultry show at Namakkal

The show was a Grand success as it enabled farmers of this region to visit a show within the reach by way of time distance and money. A good number of students had an opportunity to be aware of the latest developments in the fast growing poultry industry. The farmers and Poultry fraternity came in large numbers to benefit from the show. Exhibitors express their happiness towards quality of visitors, and also good arrangements for food and refreshments to all the visitors. The egg promotion, which was sponsored along with the chicken biryani, was welcome by many.

Canada under Justin Trudeau is making a big blunder of treating India in a usual way of abusing and taking things for granted. India, under the new regime of Sri Narendra Modi is a new face and avatar for many in the west.

Supporting the separatist, extremists and terrorists, will bring up on Canada another version of Pakistan, which uses such elements for meeting their political ends. If Khalistan will ever be made, it will be in the soil off either Canada or west Punjab in Pakistan.

To remain in power, politicians can go to any extent, even if it cost the credibility or reputation of its own Country.

Minorities can be a curse in a democracy especially when the special rights bestowed on them gets abused. People are awakening to such a reality across the democracies of the world. The gender related rights is one as an example.

The marketing of food products in India also with imported perishable food like chocolates, dairy and fruits in several retail outlets is indeed impressive. Ofcourse it is at infancy stage nevertheless shows good signs of acceptance by the consumers. The question to be asked here is why are the local eggs and chicken products unable to successfully penetrate this segment? Liscious an idea not even from within our industry is doing enviably good- what prevents the producers to copy the strategy in the least? Why not invest in a marketing consultant to enter the market- needs serious introspection to break through this barrier.

Corporates and farmers, start promotion from within home. It's a common practice to offer tea and coffee to the employees and visitors. Why not introduce boiled eggs as a partial substitute to tea and coffee? It's nutritious, far cheaper and easy to serve. For those who wish not to offer free atleast make it available to people in-house on subsidized price.



ARTIFICIAL INSEMINATION, A RELIABLE TOOL FOR POULTRY BREEDING

Dr. Surya Kant^{*1}, Dr. K. D. Singh², Dr. A. K. Verma², Dr. M. K. Verma³ and Dr. P. S. Pramanik¹

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The most often utilized and worldwide accepted reproductive technique in the livestock sector is artificial insemination (AI). Particularly in western nations where it is used for commercial and research purposes, it has grown more and more popular among poultry species. A prominent method for increasing the reproductive success of birds is artificial insemination, especially in broiler breeders and turkeys with low fertility because of their huge body weight. The process begins with the collection of male semen, which is then examined for motility, viability, and concentration before being deposited into the female reproductive tract. To be productive in creating fertilized eggs, one must be technically proficient with the semen collection and deposition methods. Males can start producing semen at the age of 12 weeks depending on the plane of nutrition, lighting program and size of body.

However, such roosters rarely produce viable, useful sperm as maturity doesn't set in until the bird is at least 18 weeks old. Thus, semen is collected from cocks that are 22 or 24 weeks old. Spermatozoa and seminal plasma make up the semen. Broiler fowl semen typically contains 3 to 8 billion spermatozoa per milliliter. Semen from chickens is typically white or pearly white in color. Males of heavy breeds can generate 0.75 to 1 ml of semen, whereas males of light breeds can produce 0.4 to 0.6 ml. When held for more than an hour, chicken semen starts to lose its potential to fertilize. The vitality of the spermatozoa can be preserved for six to twelve hours by transporting chicken sperm in liquid cold (4°C) storage. From a healthy cock, four to six times per week, semen can be collected. Although daily semen collection won't affect the ability to fertilize but volume of semen will be small in quantity. When viable eggs are needed, inseminations should be performed twice in a row

during the first week and then once per week after that. Insemination of chickens should be finished within an hour of semen collection since poultry semen has a very short shelf life. The optimal time to perform the operation is between 2 and 4 pm, though it is a good idea to do it every day. The main cause of this is that most chickens have an egg in the oviduct in the morning, which prevents semen from freely moving to the ovary. The fact that it is typically colder and the hens are less likely to be impacted by heat, especially in late spring, is another argument in favor of inseminating the hens in the afternoon.

A.I. equipment requirements:

- Small glass funnel with wax filled stem.
- Inseminating syringe.
- Wide mouthed glass vial.
- Small Pyrex semen cup.
- Large flask with the capacity to contain water at 180 to 200 degree Celsius for temporary storage of semen to a short time.

Semen extraction

The manual collection (milking) of semen is the initial stage in an AI program. Semen collection often involves a two-person team, with one person restraining the male and the other collecting the sperm. The bird is held by someone holding it horizontally at a height that is convenient for the person trying to collect the semen. The operator should use the thumb and index finger of the left hand to gently massage the cloaca on both sides in order to accumulate sperm. The operator should hold a collecting funnel in his right hand and use his thumb and index finger to massage the soft area of the abdomen beneath the pelvic bones. Till the papilla emerges from the cloaca, rapidly and persistently massage the cock. Using the thumb and index finger of the left hand, which were previously

positioned, the semen is pressed into the collecting funnel once the papilla is fully protruded. Feathers or feces shouldn't enter into the sperm. When held for more than one hour, chicken semen starts to lose its potential to fertilize. The spermatozoal viability of semen can be preserved for six to twelve hours by transporting it in liquid cold (4°C) storage. Even while chicken semen can be frozen, its limited fertility makes it only useful for specific breeding initiatives.



Image credit: <http://agrinovateindia.co.in/>
Analysis of the sperm at the time of collection

- Semen typically has a pearly white or cream tint. Avoid sperm that is yellow or impacted with feces, urine, blood, or other substances.
- Sperm shouldn't be allowed to come in contact with water.
- Before adding more diluent to semen that has accumulated debris or impurities, carefully aspirate the contaminants.
- Put the diluted sperm in a cooler or refrigerator (3 to 12 degrees Celsius) to cool it down.

Insemination

The manual introduction of semen into the female's vagina is known as artificial insemination (AI). Semen extraction from the male and insemination into the female are the two main steps of the process. When laying cages were introduced in Australia in the late 1950s, artificial insemination became widely utilized there. It was initially employed in America in the 1920s. Before use, all insemination-related equipment needs to be thoroughly cleaned and dried. The bulk of the birds must have finished laying before insemination can be done because a hard-shelled egg at the lower end of the oviduct

prevents insemination and reduces fertility. In actuality, fertilizing chicken after three o'clock in the afternoon had superior outcomes. Insemination of hens that do not lay eggs is challenging. The flock is typically inseminated when egg production reaches 25%. In the first week, hens are inseminated twice, then once per week after that. Insemination of hens using 400–500 million frozen–thawed chicken spermatozoa at 3 day intervals resulted in fertility levels of 90% under experimental circumstances. Each insemination in chickens will result in between 100 and 200 million sperm cells from diluted semen. For hens, 0.05 ml of undiluted pooled semen is needed at intervals of 7 days because to the lower spermatozoa concentration and shorter period of fertility. The initial insemination should occur when the hen is crouching, which suggests receptivity. Later in the season, fertility tends to decline; consequently, as chickens get older, it might be appropriate to inseminate more frequently or use more cells each dosage.

Procedure

The hen is supported by its legs while being inseminated, with the left hand placed down and the tail pulled back against the operator's breast. In order to press the abdominal muscles, particularly those on the left side, the right hand's thumb is put against the upper lip of the vent. Apply pressure evenly using the palm of the hand rather than squeezing with the fingers. The second operator then inserts the syringe or plastic straw about one inch (2.5 cm) into the oviduct, causing the cloaca to evert and the oviduct to protrude. The required amount of semen is then deposited at the junction of the vagina and uterus. Pressure around the vent is relieved as the inseminator discharge semen, this helps the hen keep sperm in the oviduct or vagina.

Dose and frequency of insemination:

- Chicken : 0.05 ml once per week.
- Turkey : 0.025 ml once every two weeks.
- Ducks : 0.03ml once every five days.
- Goose : 0.05 ml every seven days.

Semen quantity and sperm concentration in

numerous poultry species :

Species Volume

Species	Volume (ml)	Sperm concentration (million per ml)	Sperm concentration is re for each insemination (m
Broiler type chicken	0.7	3500	150 to 200
Layer type chicken	0.5	4000	150 to 200
Tom	0.25	9000	300
Gander	0.6	2500	250
Drake	0.3	4000	300

Image credit: <https://www.pashudhanpraharee.com/>



Advantages :

- Normally, six to ten hens can be mated to one cockerel. The likelihood of this mating ratio increasing by fourfold with artificial insemination. In this way, a male with a high genetic merit for a desired trait can benefit more females.
- Even with leg damage, valuable male birds can still be employed for artificial insemination.
- AI enables the pairing of unsuitable individuals; incompatibility develops when males are heavier than females, which may cause harm to the females during natural mating.
- Even while cross breeding is extremely effective in natural environments, there can occasionally be some form of color discrimination since some hens won't mate with a male of a different color until they have raised their young together. AI supports successful cross breeding in such a situation.
- Older males who perform exceptionally well can be used for numerous generations, but under natural mating, their useful life is constrained.
- When managing a large number of females that must lay fertilized eggs, AI enables better utilization of the cage feeding system in hatchery operations.
- It is possible to eradicate decreased fertility that results from preferred mating.

Conclusion:

The following are some benefits of AI for broilers-

- With fewer males required, there would be higher selection pressure on the male attributes of economic value, leading to greater genetic advancement for each generation, the male & female ratio would increase from 1:10 for natural mating to 1:25 with AI.
- The following advancements in poultry AI technology may occur at some point in the future as a result of research on the biology of poultry sperm and the cellular and molecular basis of oviductal spermatozoa transport, selection, and storage.
- Insemination intervals extended to 10-14 days (versus 7 day) with fewer sperm per insemination. In vitro sperm storage for 24-36 hours at ambient temperature with minimal loss of sperm viability.

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Lumis Enzymes organized Seminars in South East Asia

Lumis Enzymes organized multiple seminars in South East Asia that covered various key topics like the El Nino challenges which has globally impacted the climatic conditions, the variability and non-availability of essential ingredients due to reduced harvests and the inflation of ingredient prices. The seminars also addressed the various geopolitical issues causing widespread implications on the international trade and also trade ban on certain key ingredients. The seminars highlighted the need of sourcing alternate ingredients and the adoption of sustainable practices to minimize the environmental impact. The seminars were led by eminent speakers with extensive knowledge and several years of experience in the feed industry.

At the outset and on behalf of Lumis Enzymes, Mr. Nicklas Jonow delivered a welcome note to the speakers and the attendees of the seminars. He provided an overview of the agenda and also highlighted the importance of the topics covered in the seminars.

Mr. Lesley Nernberg, respected poultry and swine nutritionist presented useful insights about alternative feed ingredients and extracting their nutritional values. He provided very relevant information on the nutrient composition of the conventional and alternate feed ingredients while also suggesting valuable information on the utilization of alternative feed ingredients. He also highlighted that Lumis has been proactively researching on these alternate ingredients, recognizing their potential as essential or mandatory ingredients in the near future. He further discussed on the technological features of the unique enzyme combinations from Lumis, that would play a very vital role in optimizing feed efficiency and maximizing economic benefits through the use of these alternate feed ingredients.

Assoc. Prof Dr. Yuwares Ruangpanit, a distinguished animal nutritionist delivered a presentation on the importance of effective feed ingredient management. She gave a detailed explanation on how low protein diets would not only help to reduce the water consumption, nitrogen excretion, ammonia emission and enteric pathogens but also help to substantially

reduce the feed production cost. She also emphasised on the significance of precision nutrition and feeding practices in promoting sustainable poultry/animal production.

Mr. Panu Nuangjamnong who has several years of experience at GISTDA, a well-known space agency in Thailand presented several geospatial data based on the highly advanced space technologies. He elaborated on the critical parameters that influence a given crop cultivation and harvesting, including the effects of current climatic changes causing droughts, flooding, temperature shifts etc. According to the comprehensive data provided by Panu, these variations in climatic conditions are leading to drastic drop in the crop production. He underlined the need of the feed industry to prioritize on the use of alternate ingredients over the conventional ingredients.

Dr. Ekalux, provided very valuable insights on the global feed ingredient price trend over the past few years and also projected the future price inflations. He presented several dynamics on how the use of alternate feed ingredients would help in reducing feed production costs while also improving return on investment (ROI).

Dr. Tanadon furnished detailed information on the role of Lumis enzymes while making use of alternate feed ingredients. He emphasised that due to the broad substrate specificity of Lumis Enzymes, it provides the customers flexibility to use a wide range of ingredients. He also mentioned that use of Lumis enzymes helped in overcoming the ingredient variability, improved animal performance and resulted in lowering feed production costs. He further added that the exceptional technical features of Lumis enzymes have set new bench marks for other enzyme manufacturers in the feed industry.

Overall, the seminars arranged by Lumis Enzymes, provided valuable insights into the feed industry's challenges and opportunities. The seminars were well-received by the attendees and showcased Lumis' commitment towards the industry, its customers and stakeholders on the latest developments and best practices.

LUMIS ENZYMES

ORGANISED SEMINARS IN SOUTH EAST ASIA



Mr. Lesley Nernberg



Dr. Ekalux



Dr. Yuwares Ruangpanit



Dr. Tanadon



Mr. Panu Nuangjamnong



Mr. Nicklas Jonow



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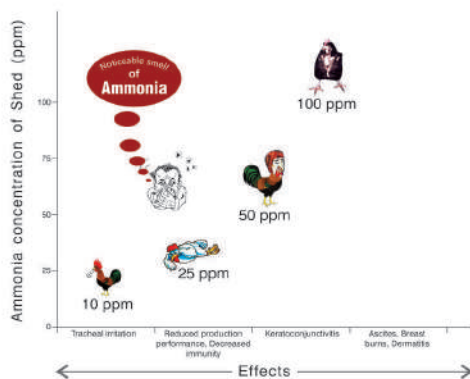


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- For enhancing the level of beneficial gut microflora and to reduce disease susceptibility especially intestinal and respiratory diseases.
- For better farm productivity and profitability.

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double dosage when the level of ammonia is more than 25ppm.

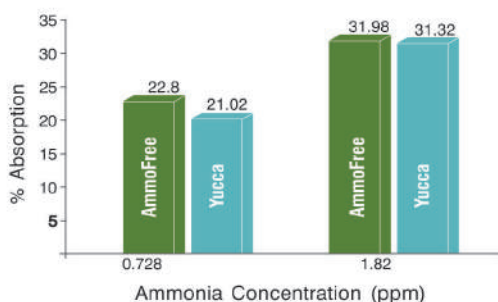
PRESENTATION

1 kg & 10 kg bag



SCIENTIFIC VALIDATION

Effect of AmmoFree and Yucca extract on absorption of ammonia



Effect of AmmoFree* at broiler farm in winter (14° - 15°C) with noticeable ammonia concentration

Group	Livability (%)	Birds showing respiratory discomfort	Faecal NH ₃ (g/kg dry faeces)	
			Day 21	Day 42
Control	95.00	7	3.86	3.92 (+1.55%)
AmmoFree 200g/ton	96.67	X	3.95	2.71 (-45.75%)

Trial at Commercial Poultry Farm under technical guidance of Dr. Rama Subba Reddy

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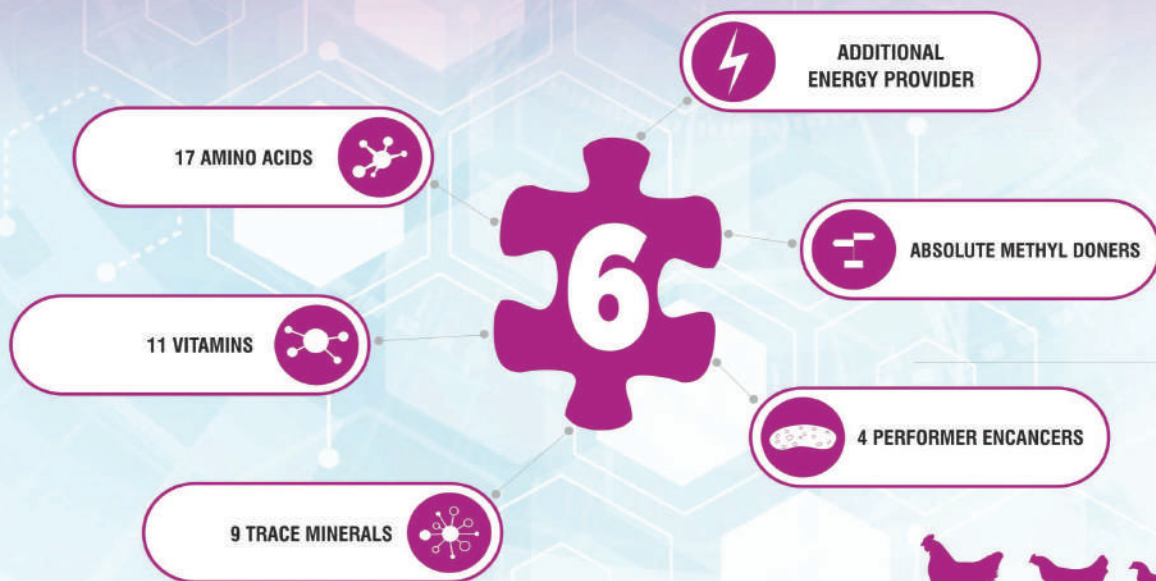


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Please contact :

Y. Ram Mohan Rao
Managing Director (Mob: +91 94904 10562)

Dr. Sreekanth Devalraju
Manager (Mob: +91 94410 31794)

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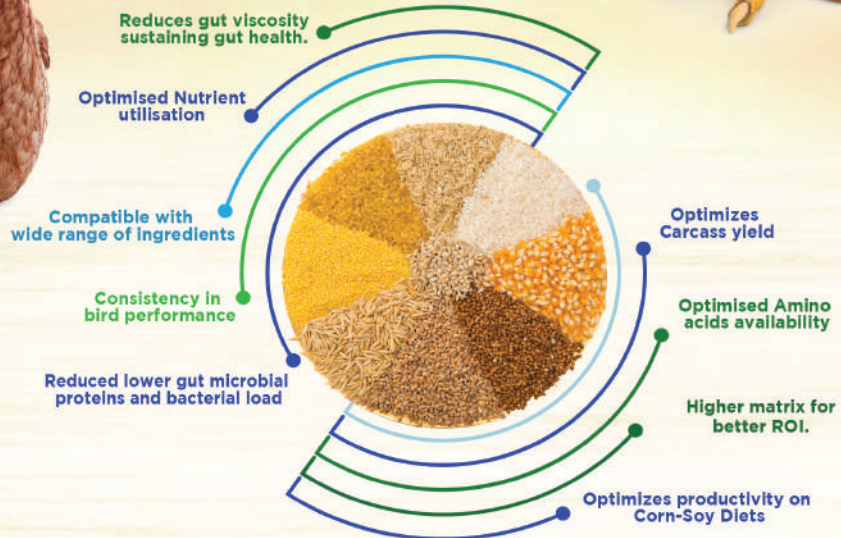
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Mr. Keshava Reddy K T

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with **101 g** feed intake/day

Rs.
3.15

Feed Cost/Egg
@ Rs. 26/KG

% Achievement **94%**

Cum Feed/Egg **121 g**

25 Weeks Above 90%

24 Week Hit 90%

Peak Weekly
Production **96%**

Batch Still Continuing



*Sree Suryanarayana P.F,
Chitradurga, Karnataka*

Mr. Prakash M R

Achieved **153 HHE** in **45 weeks**
with **101 g** feed intake/day

Rs.
3.20

Feed Cost/Egg
@ Rs. 26/KG

% Achievement **94%**

Cum Feed/Egg **123 g**

17 Weeks Above 90%

24 Week Hit 90%

Peak Weekly
Production **96%**

Batch Still Continuing



*Vijaynagar Egg Farm, Bellary,
Karnataka, Flock-3*

Mr. Ashok Mandava

Achieved **189 HHE** in **50 weeks**
with **106 g** feed intake/day

Rs.
3.29

Feed Cost/Egg
@ Rs. 26.50/KG

% Achievement **97%**

Cum Feed/Egg **124 g**

23 Weeks Above 90%

26 Week Hit 90%

Peak Weekly
Production **95%**

Batch Still Continuing



*Vijaynagar Egg Farm, Bellary,
Karnataka, Flock-4*

Mr. Ashok Mandava

Achieved **173 HHE** in **48 weeks**
with **106 g** feed intake/day

Rs.
3.34

Feed Cost/Egg
@ Rs. 26.50/KG

% Achievement **95%**

Cum Feed/Egg **126 g**

23 Weeks Above 90%

25 Week Hit 90%

Peak Weekly
Production **95%**

Batch Still Continuing



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22/09/2023

PRESS RELEASE

Lifetime Achievement Award to Sri. Chitturi Jagapati Rao

The prestigious SIBA 2023 awards were held on September 14, 2023, in Dubai. The event was graced with eminent actors from Film fraternity and noted big Corporate entities.

The guest of honor for the event was Mr. Venkaiah Naidu, former Vice President of India Mr. Venkaiah Naidu who had felicitated esteemed dignitaries for their immense contributions to Agricultural Industries.

It was a proud moment for all of us at Srinivasa Farms, Poultry & Agricultural communities as the living legend and founder of Srinivasa Farms Sri. Chitturi Jagapati Rao (Chairman-Srinivasa Farms) has been felicitated with Lifetime Achievement Award for his immense contributions to the Agricultural Industry at SIBA 2023. On behalf of Sri Chitturi Jagapathi Rao (Chairman-Srinivasa Farms) Mr. Chitturi Suresh Rayudu (MD & VC Srinivasa Farms) has received the prestigious SIBA 2023 at the event from Mr. Venkaiah Naidu.

We wish & pray the legacy of Sri. Chitturi Jagapathi Rao continues to inspire generations to come.



PRESS RELEASE

Omnivore Exits Barrix Agro Sciences to Sumitomo Chemical This marks Omnivore's third exit in just over a year.

01 Sep 2023: Agritech venture capital firm Omnivore announced today its exit from Barrix Agro Sciences. Omnivore has signed a definitive agreement to sell its stake to Sumitomo Chemical India Limited (SCIL), a subsidiary of Sumitomo Chemical in Japan. This is Omnivore's third exit in just over one year. In August 2022, Omnivore exited Eruvaka to Netherlands-based Nutreco, and earlier this year, Omnivore exited MITRA to Mahindra.

Founded in 2011 by Lokesh Makam, Bangalore-based Barrix was an early innovator of Integrated Pest Management (IPM) and integrated Plant Nutrition Management (IPNM) products. Barrix's cutting-edge R&D has supported launches of several eco-friendly crop protection and nutrition products, including pheromone dispersion technologies to monitor and trap agricultural pests.

Barrix was one of the earliest entrants in India's then-nascent agritech startup ecosystem. Omnivore, which pioneered agritech investing in India, became Barrix's first institutional investor in 2013 alongside IIM Ahmedabad's CIIE. For this exit, EY was the exclusive financial advisor to Barrix and its shareholders.

Jinesh Shah, Managing Partner at Omnivore, said, "Before Barrix, Indian farmers had limited access to effective, affordable, and eco-friendly crop protection products. Over the years, the startup has proven the efficacy of their innovations in minimizing crop damage and labor costs. We are very proud to have been an early believer in Barrix. Sumitomo's stake in the company ensures that farmers across the globe will have access to these sustainable solutions."

Lokesh Makam, Managing Director, Barrix Agro Sciences, shared "We are very pleased and excited to join forces with SCIL. Our journey to this point has been exciting, and I am thankful for Omnivore's support through the early years."

Chetan Shah, Managing Director of SCIL stated, "Together, with SCIL's vast network and Barrix's proven innovative products, we can serve the farmers through the complete value chain with tradition-

al and additional complementary solutions to crop protection. The acquisition shall create greater synergies, deliver maximum value for our shareholders and a wider product portfolio for our customers."

About Omnivore

Omnivore is a venture capital firm, based in India, which funds entrepreneurs building the future of agriculture and food systems. Omnivore pioneered agritech investing in India, and over the past decade has backed over 40 startups which are making farming more profitable, resilient, sustainable, and climate-proof. For further information on Omnivore, please visit: <http://omnivore.vc>

About Barrix

Barrix Agro Sciences develops technology enabled cost-effective solutions to reduce the use of pesticides in crop production, thereby increasing pre- and post-harvest yield. For further information on Barrix, please visit: <http://www.barrix.in/>

About IIMA-CIIE

IIM Ahmedabad's CIIE is the Innovation Continuum that studies, educates, incubates, accelerates and invests in early stage technology startups. It is recognized as a Centre of Excellence by the Department of Science and Technology. In its 15+ years of investing, IIMA-CIIE has been a prolific investor in early-stage ventures in India, equity funding over 350 startups out of which 40+ have been profitable exits. For further information, please visit: <https://ciie.co/>

About SCIL

Sumitomo Chemical India Limited ('SCIL' or 'the Company') is a subsidiary of one of the leading global diversified chemical companies Sumitomo Chemical Co., Ltd., Japan ('SCC Japan') and a leading player in Indian agrochemical, household insecticides and animal nutrition sectors.

For further information on SCIL, please visit:

<https://sumichem.co.in/>



PRESS RELEASE

NOVUS Announces Transition: Managing Director for Europe, Middle East and Africa and Global Strategic Accounts Business

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

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

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

Dr. Seidl joined NOVUS as the director of global strategic accounts in 2021. At the time, his extensive experience in the chemical and animal nutrition industries included head of sales excellence and head of global key account management at BASF Animal Nutrition.

In his new role, Dr. Seidl will help guide NOVUS’ commercial strategy within EMEA. In addition to his accountability for the global strategic accounts business, he’ll manage the EMEA sales and

technical teams, leverage resources, and align corporate functions to support business growth and deliver value to customers.

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

“Volker has successfully led efforts to strengthen partnerships and grow business with global strategic accounts,” he says. “He’s added value to the customer by developing and executing a unified framework to identify and manage strategic accounts at all levels of our organization. He is the ideal leader to continue this transformative work as the head of the commercial business in EMEA and with our global strategic accounts.”

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

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

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PRESS RELEASE

CHR HANSEN INDIA LAUNCHES A NEXT-GENERATION, THREE STRAINS, POULTRY FEED PROBIOTIC PRODUCT “GALLIPRO® FIT”



GalliPro® Fit, the easy choice. Chr. Hansen India proudly unveiled its latest innovation, GalliPro® Fit, a three-strain bacterial probiotic product for Indian market in a recently concluded event in Hyderabad on the 21st August. The event was jointly hosted by Chr. Hansen and Tara Enterprises.

This next-generation probiotic GalliPro® Fit marks a significant advancement in poultry nutrition and health,

combining three unique bacterial strains meticulously selected from a pool of over 50,000 candidates. GalliPro® Fit is set to revolutionize the Indian poultry market by offering a holistic approach to enhancing poultry health, improving food safety, boosting profitability, and reducing risks associated with pathogen infections. This launch event, attended by key industry experts and Chr. Hansen's leadership team, highlighted the product's extraordinary efficacy and its potential to transform the poultry industry in India.

GalliPro® Fit proven efficacy in the following key areas in research and field conditions:

- Boosts prevention programs. Modulate the immune system and prevent necrotic enteritis,
- Contributes to Food Safety. Helps to keep pathogens like: Salmonella spp. and E. coli under control,
- Brings Profitability. Performance improvement and nutritional value drive strong profitability with a positive return,
- Risk reduction. The effect of GalliPro® Fit can be tested in customers' feeds. GalliPro® Fit effect can be tested against the customer's farm pathogen,
- Easy. GalliPro® Fit incorporates three carefully selected heat-stable strains in one convenient bag, providing predictable and consistent outcomes.

The launch event was attended by the Chr. Hansen India team; Mr. Jean- Christophe Bodin, APAC Head of Sales, Animal and Plant health, Mr. Anurag Chadha, Country manager Chr. Hansen, India, Ms. Richa Sharan, Director marketing, Dr. CB Gowda Rayapuram, Regional Manager commercial sales – India sub- continent, Animal and Plant health account managers, Dr. Raghavendra Kumar, and Dr. Manjunath BN. Along with the Chr. Hansen team, eminent poultry expert Dr. Jayaraman, experts from poultry feed additives, Mr. Siva Dutta Subramaniam, Mr. Sekar, Mr. Manoj Garg, Mr. Gopinath and many other business experts attended the launch event. The event showcased, talks on 1)



importance on probiotics in India poultry 2) mode of action and the economic impact of GalliPro® Fit in poultry and 3) Chr. Hansen's business in India in verticals other than animal health.

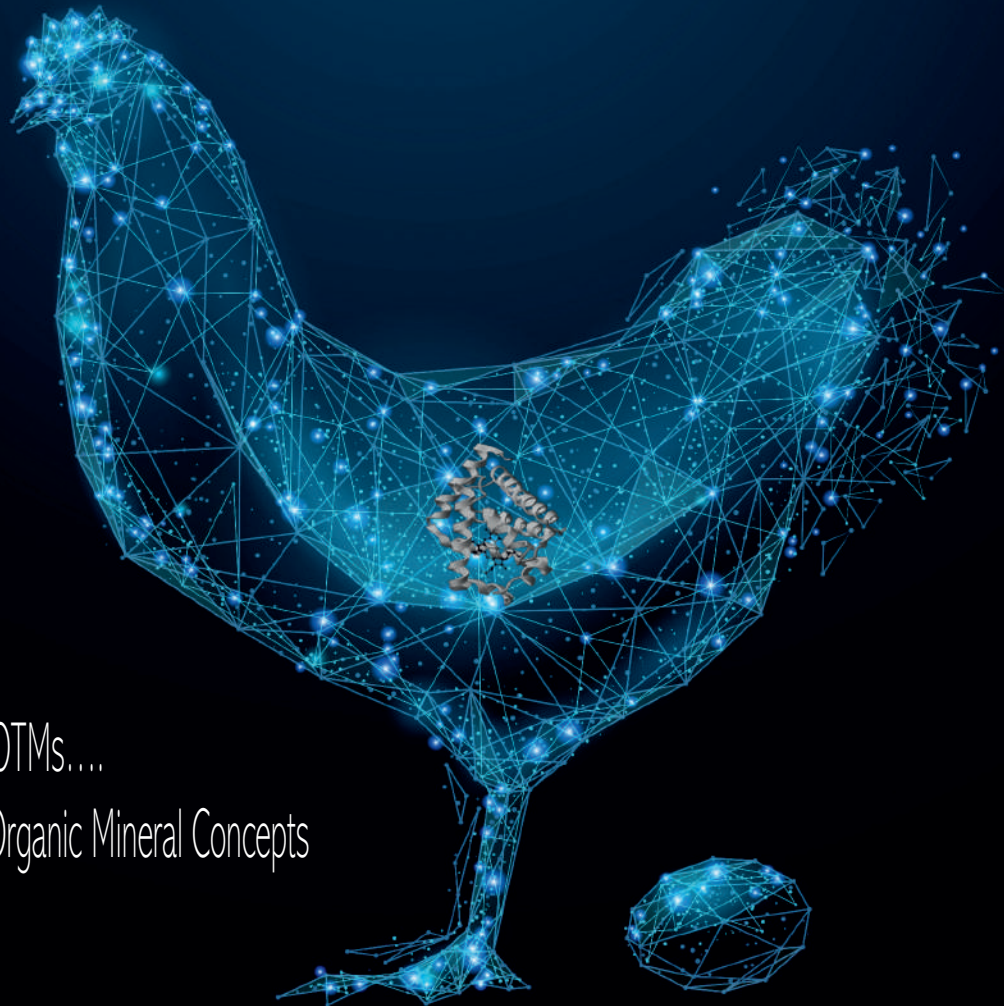
Mr. Jean- Christophe Bodin (Msc., Agr.) APAC Head of Sales, Animal and Plant health - APAC

GalliPro® Fit launch confirms that animal health and nutrition are key areas for Chr. Hansen going forward, especially for the poultry industry in India. The microbiome is important to a bird's ability to break down feed into its basic components and extract the vital nutrients needed for meat and egg production. It therefore stands to reason that safeguarding the integrity of this vast community of micro-organisms can help poultry producers protect the productivity of their flock and, in turn, the profitability of their operations.

Dr. CB Gowda Rayapuram, Regional Manager commercial sales – India sub- continent, Animal and Plant Health account managers

We are confident that GalliPro® Fit, a thoroughly researched, 3- strain bacterial product will bring benefits ranging from performance to tolerance to pathogen infection – something that is very much needed under Indian conditions wherein feed quality and environmental conditions fluctuate a lot.





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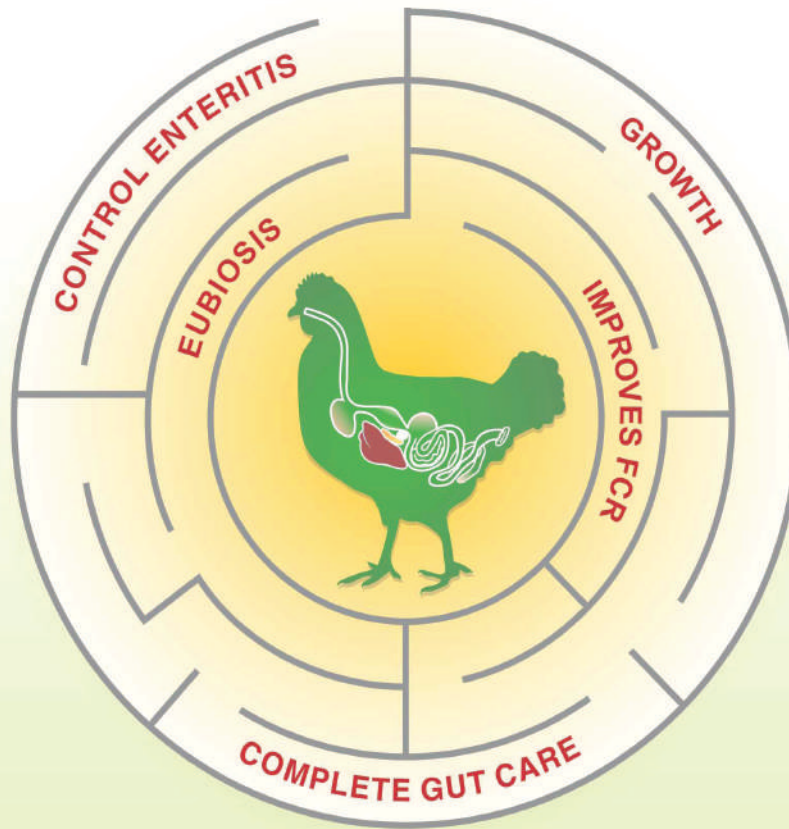
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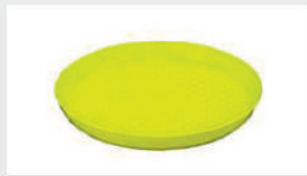
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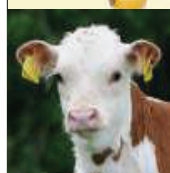
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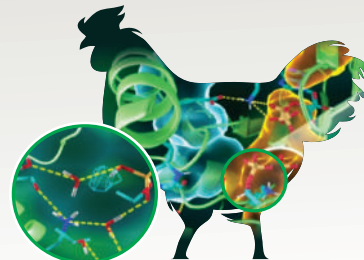
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Hyderabad

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PRESS RELEASE

Dr. PARAG P. MAHADIK
Asst General Manager A/RP
Venky's India LTD. and Venky's
Parag.Mahadi@venky.com, paragan@gmail.com
99451931240
Corporate Office: 2nd Floor, 2nd Stage, E.Ro. 1, 1st St.
Pune International Airport - 411 006, India. (020) 2553 988



Venky's india LTD organized series of Grand technical seminars at Raipur, Karnal, Hyderabad, Coimbatore and Bangalore from 11th to 15th September 2023.



On 11th to 15th September 2023 in Raipur, Karnal, Hyderabad, Coimbatore and Bangalore Venky's India LTD organized the grand series of seminars. The resource person for the Seminar was Dr. Josep Garcia, Global technical lead for toxin solutions at agrimprove an International expert on Mycotoxins from M/s Special Nutrient Inc, USA and who has experience of more than 40 years in the same field.

The topic of seminars was on "Multiple toxins challenges in feed and its solutions"

The Seminar was well attended by field Veterinary consultants, Layer farmers, Breeder Farmers and local integrators from various cities and towns of Raipur, Karnal, Hyderabad, Coimbatore and Bangalore. For the Raipur Seminar Dr. Vishwas Sagajkar (DGM Marketing) welcomed the guests. In Inaugural speech Dr. Vishwas Sagajkar (DGM



Marketing) gave brief regarding Dr. Josep Garcia work experience. And then the speaker Dr. Josep Garcia started his presentation. And finally the presentation was summarized by Dr. Vishwas Sagajkar (DGM Marketing). For Karnal Mr. H.S Padda (DGM North) welcomed the guest and Mr. Sashi Bhushan gave inaugural speech to Audience in Karnal Followed by Dr. Vishwas Sagajkar (DGM Marketing) gave brief regarding Dr. Josep Garcia work experience. And then the speaker Dr. Josep Garcia Started his presentation. And finally the presentation was summarized by Dr. Vishwas Sagajkar (DGM Marketing). For Hyderabad Meeting Dr. Baburaj (DGM South) welcomed the guest and Mr. Suneel Sharma gave inaugural speech to Audience in Hyderabad Followed by Dr. Vishwas Sagajkar (DGM Marketing) gave brief regarding Dr. Josep Garcia work experience. And then the





speaker Dr. Joscep Garcia started his presentation. And finally the presentation was summarized by Dr. Vishwas Sagajkar (DGM Marketing). For Coimbatore Meeting Mr. Deepak Khosla (GM Marketing) welcomed the guest and gave inaugural speech to Audience in Coimbatore Followed by Dr. Vishwas Sagajkar (DGM Marketing) gave brief regarding Dr. Joscep Garcia work experience.

And then the speaker Dr. Joscep Garcia Started his presentation. And finally the presentation was summarized by Dr. Baburaj (DGM Marketing). For Bangalore Meeting Mr. Deepak Khosla (GM Marketing) welcomed the guest and gave inaugural speech to Audience in Bangalore Followed by Dr. Vishwas Sagajkar (DGM Marketing) gave brief regarding Dr. Joscep Garcia work experience. And then the speaker Dr. Joscep Garcia Started his presentation. And finally the presentation was summarized by Dr. Baburaj (DGM Marketing).



And then Dr. Joscep Garcia started with his presentations “Multiple toxins challenges in feed and its solutions”. At the start of his presentation. Dr. Joscep Garcia showed some of the Photographs of the PM lesion due to mycotoxicity. Which gave the clear cut idea to the audience about different lesions to different organs by different mycotoxins. Then slowly he shifted the audience towards updates of Endotoxins in poultry and its importance in poultry. In his presentation topic what he touched was Endotoxins disrupt gut health in poultry. Endotoxins, also known as lipopolysaccharides (LPS), are part of the outer membrane of the cell wall of all gram-negative bacteria (e.g. E. coli, Salmonella, Shigella, Pseudomonas, among others) that are released from bacterial cell wall by shedding or through bacterial lysis. Gram-negative bacteria are part of poultry animals’ microbiota; thus, there are always LPS in the intestine. Under eubiosis, this does not affect animals negatively because intestinal epithelial cells are poorly responsive to LPS when stimulated from the apical side.

Dr. Joscep Garcia also reminded about the critical role of immunosuppression caused by Mycotoxins and its role in Vaccine failure. He emphasized that one should be very careful while selecting a Toxin Binder as some agent such as activated charcoal if included in Toxin Binder may have deleterious effects as activated charcoal also binds nutrients such as vitamins and minerals from the feed. Biobantox Plus takes care of Mycotoxins, Endotoxins & Pesticides.



Clinical disorders associated with Phosphorous

Kennady Vijayalakshmy^{1,*}, Meenakshi Virmani² and Jyotsnarani Biswal³

^{1,*}Research Officer, International Livestock Research Institute (ILRI), New Delhi, India - 110012

²Assistant Endocrinologist, Department of Veterinary Physiology, Lala Lajpat Rai University of Veterinary and Animal Sciences

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Introduction

Most of the phosphorus found in the body is combined with oxygen to form the phosphate anion. It is second only to calcium as the major component of bone mineral. Phosphate is a component of phospholipids, phosphoproteins, nucleic acids, and energy-transferring molecules such as ATP. Therefore it is involved in every major metabolic pathway in the body. Phosphate anion is an essential component of the acid–base buffer system.

Hypophosphatemia

Plasma phosphorus concentrations is found to be of 0.64–1.3 mmol/L or 2–4 mg/dL. Growth and fertility are impaired, poor performance by animal & feed intake of the animals is depressed. The reduction in feed intake is often accompanied by pica, or abnormal appetite with a particular desire for soil, flesh, and bones.

Hyperphosphatemia

It is an electrolyte disturbance in which there is an abnormally elevated level of phosphate in the blood. Signs and symptoms include ectopic calcification, secondary hyperparathyroidism, and renal osteodystrophy.

Downer phosphorus cow

Botulism in cattle where P deficiency is endemic and the cattle are desperate for phosphate have been traced to consumption of carcasses of wild animals that had died on the veldt and contained toxin as a result of the growth of *Clostridium botulinum* during putrefaction. Recumbency and paresis can be observed once plasma phosphorus concentrations fall below 0.3 mmol/L or 1 mg/dL. This syndrome is also referred to as the downer phosphorus cow and is occasionally seen as a sequela to milk fever.

Rickets and osteomalacia

Osteomalacia is used to describe the failure of osteoid matrix to mineralize. Calcium and phosphate ions combine in a ratio of 10 calcium ions to 6 phosphate ions at the point of mineralization of the bone cartilage or osteoid matrix. Failure to supply phosphorus in the diet will result in low plasma phosphorus concentrations, which will not support the mineralization process, and the bone matrices fail to mineralize. Bone phosphorus released during the process of bone remodelling, which is normally incorporated into the new bone being formed, is instead used to maintain plasma phosphorus concentration.

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Cell: 98660 75805 Fac. : 040-23095996	Cell: 98491 09478 Fac. : 040-20005996

FEED BACK OF PARTICIPANTS AT NAMMAKKAL

Dear Mr Shiv Shankar

Farmers were really happy about the Expo conducted by you at Hotel Nala, Namakkal especially small and medium poultry farmers both from layer and broiler sectors and all were appreciating your efforts and expecting to continue the same in the years to come. Knowledge day Technical classes were really on the need of the hour and well presented by all the speakers.



Dr. Meganathan Chokkalingam,
AGM (Marketing),
Venkateshwara Hatcheries Pvt Ltd.,
Namakkal. (M): 94432 11234



First of all, I would like to thank Mr Shivshankar ji to motivate us to participate in Namakkal expo. It was real grand participation and grand expo where GLOCREST got a chance to showcase the massive products range & reaching out to the masses in one shot. There was a strong footfall of customers/ consultants/ veterinary college students from not only Tamilnadu but from all states of South and also across the India. Probably it was much needed event after lots of ups & downs in recent past. Thank you Poultry Fraternity for your blessings & we anticipate your support as usual in future as well. We will take part in such events frequently for your best services.

Best Regards.

Dr Ramdas S Kambale
CEO & Board Member,
GLOCREST Pharmaceutical Pvt Ltd



Dear Sir,

It was a good and much needed poultry exhibition for Namakkal. One of the largest poultry pockets in India witness a beautiful gathering of poultry farmers, feed producers, poultry nutritionist, veterinarians and Industry peoples. Indeed a good arrangement done by Tejasvi Events, which attracted people from all parts of the country direct or indirectly. Hope Mr. Shivasankar will continuously develop this kind of opportunity for our Poultry Industry where industry people find the scope to enhance their knowledge and relationships

J Shankar Reddy,
General Manager-Sales,
Uttara Impex Pvt Ltd.
Pune – 411 030.
(M) 8008802148

Dear Shivshankar Sir,

Greetings from Devee Biologicals, Hyderabad.

On behalf of Devee Biologicals we would like to express our hearty congratulations to **Tezasvi Events** who had successfully organised **India Poultry Expo 2023 at**



Namakkal on Sept 20 - 22, 2023. The selection of the event in Namakkal is a great idea, as Namakkal is the hub for thousands of layer farmers.

Indeed this was a great platform for exchange of knowledge between the Industry experts, Poultry Farmers and the companies in the Livestock industry. There was an overwhelming response from all the stakeholders of the Industry.

To give a brief update on our company **Devee Biologicals** is one of the fastest growing manufacturing & marketing companies in India with its operations

FEED BACK OF PARTICIPANTS AT NAMMAKKAL

across the country for more than 20 years under the segment of livestock which includes Poultry, Aqua Culture & Ruminants. The success for the company's growth is credited to our quality products, industry well-wishers and to our experienced & trained sales / technical staff along with our channel partners who are dedicated & committed to provide the quality & timely service to the livestock customers across the country.

We sincerely thank all the **Poultry farmers** for having a great trust in our company and continuously providing support to us for over two decades. We would like to thank Tezasvi Events for bringing all the members in the poultry industry under one roof and had set a strong benchmark to the organisers, we wish many more such events to be organised to the benefit of the industry during the near future.

Thanking you,
for Devee Biologicals Pvt Ltd.,
Vishnu,
Vice President
@ 9686676265

It was indeed a long awaited expo in Namakkal after a decade.

There had been a huge development in poultry sector in Tamilnadu during this decade which had positioned Namakkal in the global market place for poultry business.

Thanks to Tejaswi Events for their efforts to create a platform for both the farmers and the entrepreneurs of poultry businesses to share information about their products.

Good footage from all parts of Tamilnadu coupled with the good turnout from Kerala Andhra and Karnataka shows the farmers increasing awareness of their farming practices in poultry.

Good arrangement with good hospitality extended every areas confirmed the commitment of Mr. Shiv Shankar and his team to the industry.

Rex Christiraj,
S S Agrowtech, 4/724, Opp. Parvathy Mahal,
Trichy Road, Nmakkal. (M):94432 27100.



Organizational Setup: The expo was well-organized, with clear signage and information available to attendees. The layout made it easy to navigate between different sections and stalls.



Exhibitor Variety: The expo featured a diverse range of poultry-related exhibitors, from feed and equipment suppliers to breeders and healthcare providers. This diversity allowed attendees to gain insights into various aspects of the poultry industry.

Educational Content: The presence of seminars, workshops, or presentations on poultry farming and related topics added value to the expo. It provided opportunities for attendees to learn and stay updated on the latest industry trends.

Networking Opportunities: The expo facilitated valuable networking among poultry professionals, breeders, farmers, and industry experts. These connections can lead to collaborations and knowledge exchange.

Accessibility: Evaluate the accessibility of the expo venue, transportation options, and accommodation choices to ensure that attendees can easily reach the event

In summary, the Namakkal Poultry Expo appears to be a valuable event for the poultry industry. Focusing on organization, variety, education, networking, hygiene, and sustainability will help make future editions even more successful and beneficial for attendees and exhibitors alike.

V Pooventhiran B.S (USA),
Managing Director,
Easwarri Engineering Industries,
Namakkal. (M): 98426 20084

FEED BACK OF PARTICIPANTS AT NAMMAKKAL

Dear sir,

India poultry expo 2023 organized in Namakkal was really super because after a long time we had that opportunity to meet all farmers, doctors, technicians and poultry related people in one forum. So I express my gratitude to TEZASVI EVENTS management Team for excellent arrangements & good coordination to all members.



Thanking you ...



yours
R. Baskaran,
Zonal manager
Hindustan Therapeutics (P) Ltd.,
Hyderabad.
(M): 96009 00668

Dear Sir,

Indian Poultry Expo held at Namakkal was a good platform for us in exhibiting and promoting our products and make our stanmax familiar with Doctors, Farmers and Associates of poultry industry.



Seminars were encouraging and could have been much helpful if conducted a day before the poultry show dates. Tezasvi Events was good in organising and making arrangements.

With Regards

B. Ravindra,
Sales Manager
Stanmax Laboratories Pvt Ltd.,
Hyderabad
(M): 80081 23827

Dear Sri. Shiva Shankarji,

It was a vibrant platform for Doctor's vet Pharma Ltd Nellore and it was our first exposure to us. The platform gave good mileage for creating awareness about our unique (feed supplements in Syrup base , 100% soluble, no Nipple blocks , 3 in 1 , 5 in 1 and All in 1 combination products, Antibiotics/ Antibacterial in Solvent base , powders in Dextrose base & own manufacturing products besides economical and beneficial to end users. We are happy and proud to be associated with Poultry expo 23 at Namakkal and looking forward to associate in upcoming events.



Regards,
Mohan Kulkarni,
Vice President,
Doctor's vet Pharma Pvt Ltd., Nellore.
(M): 94412 33952



Dear Sir,

Well organised , well planned.

The flow of visitors were genuine which resulted in converting to business.

It was not the quantity of visitors but quality of visitors which mattered to us.

Overall it was good

Sheral Dsouza,
Manager Supplies,
Shido Pharma,
Mumbai-400083.
(M): 98204 47322

FEED BACK OF PARTICIPANTS AT NAMMAKKAL

Dear Mr Shiv Shankar,

Joining the Poultry Expo 2023, organized by Tezasvi Events, was a significant milestone for our start-up. This well-organized event not only marked the beginning of our business journey but also provided us with valuable exposure to our target customers. The insights we gained have been pivotal in shaping our path for future growth and success.

Jayaprakash,
Evve Technology,
Namakkal,
(M):98940 29399



Dear Mr. Shivshankar,

The India Poultry Expo organized by Tezasvi Events at Hotel Nala, Namakkal held between 20th to 22nd September has attracted many farmers from the industry. The footfall on the second day was very good and we hope that such regional shows shall provide the opportunity for local farmers to have exposure to various products and services required by them.

Regards,
Mr. M Nachimuthu,
Senior Area Sales Manager,
Zeus Biotech Private Limited,
Mysore – 570 016.



Free Lance Poultry Consultant

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



His areas of expertise include:

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

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

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

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

Email : drmanu69@gmail.com

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

India Poultry Expo 2023 at Namakkal



The eagerly awaited India Poultry Expo 2023 in Namakkal, Tamil Nadu State by Tezasvi Events, was conducted successfully at Hotel Nala, Trichy Road, Namakkal from 20,21,22 September 2023. It attracted a good number of visitors from all parts of the Tamil Nadu and made the expo a grand success. People from the neighbouring states of Kerala, Karnataka, Gujarat, Maharashtra, Northern parts of India, Andhra and Telangana States witnessed the expo which we feel the testimony of our commitment and mission to carry forward the poultry for all and the benefits should reach nook and corner of the rural India and we did not disappoint them either.

In the absence of the Chief Guest due to his unexpected schedule, Dr M Selvaraju, Dean, Veterinary College and Research Institute, Namakkal was the Chief Guest of the expo. Mr MRI Magdum, General Manager, V H, South Zone II, Hosur Mr P Valsan, AIPPEA were invited on to the dais as guest of honour. Mr Rex Christiraj, SS Agrowtech, who played a vital role in the success of the expo and Mr B V Shiv Shankar, organizer, India Poultry Expo were invited on to the dais.

The whole event was anchored by Mrs. Amalaruth Glen and Tejasvi Events appreciated her for the perfect presentation

Speaking on the occasion, Mr Selvaraju, Dean, Veterinary College and Research Institute, Namakkal appreciated that in the year of 2023, Tejasvi Events is conducting its 23rd Expo in the right place where poultry farmers flooded in Namakkal, the egg city and said that he is very proud as a Dean because Namakkal had two pillars for the poultry, one is Animal Feed Analytical and Quality Assurance Laboratory (AFAQAL) and another one Poultry Disease and Diagnostic Surveillance Laboratory (PDDSL). Apart from this, he said that there are many experts who help the industry whenever there are crisis and took all the necessary measures to overcome the situation and assured that they will be there to help us in future as well. He stated that India is looking upon the potential market for supply of poultry products in many developing countries and citing recently we witnessed from the sudden surge of request for need of eggs for international football tournament in Qatar which was too good and satisfied by Namakkal eggs and proved that Namakkal eggs have been accepted in the international market. He proudly mentioned that our farmers are maintaining the quality as well as quantity to satisfy the international standards by saying that Malaysia, Taiwan, Vietnam and even countries like Japan are keen to procure eggs from India and he assured the speakers, who spoke before





him that Namakkal will keep the quality, quantity and bio security measures to meet international standards. He said that Namakkal is a biggest layer population in India comprising of 65 to 70 million population. In conclusion, he appreciated the organisers of Tezasvi Events for organising such a power pack expo for all freshers as well experienced to keep updated.

Mr MRI Magdum, General Manager, South Zone II, Venkateshwara Hatcheries Private Limited, speaking on the occasion said that in India out of hundred percent, 65% of production is being produced in Namakkal and erstwhile Andhra Pradesh and stated that it is one of the highest exporters from Namakkal to other countries whether it is Sri Lanka or United Arab Emirates or other countries. He said that when he visited here in 1996, 7656 farmers were existed but now the number has reduced to 1100.

Further he gave few tips to the farmers stating that one should have brooding system and growing system separately which he saw missing in Namakkal. He also insisted about bio security which plays an important role in poultry production and requested all veterinarians to suggest every farmer to maintain in their respective farms to get rid of all dreadful diseases.

Mr Valasan, Secretary of All India Poultry Products Exports Association, welcomed all in the august gathering and thanked Mr B V Shiv Shankar for



organising such a power pack expo in Namakkal. He said that Namakkal is producing 6 crore eggs per day and out of it, his association is exporting 50 lakhs eggs per day and helping in domestic egg production in Tamil Nadu. He said that we have to continuously export and see the exports from other associations i.e. National Egg Coordination Committee, Tamil Nadu Poultry Farmers Association and Tamil Nadu Poultry Farmers Marketing Society and Government Agencies and especially from Commerce Ministry for giving special incentive to poultry farms as exporters and merchandise.

Mr Rex Christi Raj, Proprietor, SS Agrowtech said that we have chosen Namakkal this time "Why Namakkal". Replying to this he said that Namakkal is the capital of poultry industry in Tamil Nadu as the layer industry holds 80% of its capacity in and around Namakkal and around 25,000 commercial broiler farmers in Namakkal, Palladam and surrounding areas for their farming business. He further said that the Namakkal has a brighter potential for the development in future and assured place for the exhibitors to explore the market of international importance. People who were not able to visit the International Shows are privileged to witness such expos in their nearest reachable places especially Namakkal. He further said that to create such platforms by Tezasvi Events to interact with B to B and B to C and thanked the management for selecting





Namakkal keeping in view of its importance.

Speaking on the occasion, Mr B V Shiv Shankar, Organiser, Tezasvi Events, felt extremely honoured and proud to be a part of Namakkal for its fourth time. He said that the aim of Tezasvi is to organise the expos only in rural areas where real farmers stays. The reason, he said that the farmers of rural areas cannot afford to leave their day to day activities in their farms and visit the exhibition in metropolitan cities and spend four to five days which is not only feasible for them but also financially. Keeping in view of this, he chooses to organise the exhibitions in rural areas. He thanked Mrs Desai, Chairperson of VH Group for her unstinted support and participation in all the events held so far. He also thanked all the exhibitors who showed their confidence in Tezasvi Events and strengthened the organisation with their continued participation. He also thanked Mr Rex Christiraj, who played an instrumental role in its success and assured the august gathering that being emboldened with the fond affection and support, will organise such events in future in Namakkal.

Later Dr M Selvaraju declared the expo opened and visited the stalls along with Mr MRI Magdum.

The second day was flooded by commercial broiler farmers and breeders along with layer farmers who had taken the trouble of coming from all parts of Tamil



Nadu and nearby states to visit and gain knowledge about the recent developments taking place in the poultry industry and the day began with a technical session. Mrs Amalaruth apart from playing anchor role has also acted as convener for the session. The well attended farmers, doctors and scholars listened the following tropics with utmost care and attention.

1. Disease challenges in layers and broilers by Dr K Sukumar, M.V.Sc, Ph.D, Professor & Head, Microbiology, Veterinary College, Namakkal
2. Sustaining in Layer Industry by Dr D Chandrasekaran, M.V.Sc, Ph.D., Professor & Head (Retd), Animal Nutrition, Namakkal Vet College, Namaakkal
3. Immunomodulation and Aroma therapy with Essential oils spray by Dr Manoj Reddy, B.V.Sc., Technical Manager, Uttara Impex Pvt Ltd.
4. Shooting the moving targets-Poultry Disease Control by Dr A Kandasamy, AGM, Ventri Biologicals, VHPL, Namakkal
5. Water Quality for Production Efficiency by Dr R Chanthirasekaran, Regional Director-Technical Services, Kemin Industries South Asia Pvt Ltd., Chennai





6. Challenges in Broiler Farming by Dr G Sivakumar, B.V.Sc., CEO, Sakthi Poultry Pvt Ltd and
7. Benefits of using exogenous enzymes in poultry diets based on level of substrates in different ingredients by Dr T Vijayanand, Senior Technical Manager, Venkateshwara B.V. Bio-Corp Pvt Ltd., Namakkal

At the end of each session, the speakers were honoured with flower bouquet, a shawl and mementos. It is heartening to mention here that Kemin Industries South Asia Pvt Ltd., Chennai has sponsored the technical seminar and the organizers expressed gratitude for their hospitality.

It is not only farms that should be protected but also the farmers who toil day and night in their farms. Keeping this in view, a health check up camp also was organised for the visitors who could check their health updates. Our sincere thanks to Viba Medical Care for rendering their services in taking care of our farmers in free health checkups.

The day three was witnessed with a colourful valedictory function wherein all the exhibitors were honoured with mementos by Mr MRI Magdum, GM, VH Group, Dr Meganathan Chokkalingam, AGM, VHPL, Namakkal, Mr Ranganathan, MD., Sun India, Namakkal, Mr B V Shiv Shankar, Mr Ravi Kiran, Adventis Bio Labs, Mr V S Balasubramaniam, NECC, Namakkal, Mr C Boopathy, Farmer, Mr R P Subramaniam, Farmer were also invited on to the dais to honour the exhibitors with the mementos.

We have also arranged to honour with three best decorated stalls and arranged a committee under the leadership of Mr V.S.Balasubramaniam, NECC,

Namakkal to decide the best three stalls. The committee has declared the three winners out of total decorated stalls as under:

1. Venkateshwara Group.
2. Uttara Impex Pvt Ltd and
3. Hester Biosciences Ltd.

Not to undermine other decorated stalls, the committee has also declared "Special Appreciation Award" to them as under:

1. Glocrest Pharmaceutical Pvt Ltd., and
2. Devee Biologicals Pvt Ltd.

Tezasvi Events profusely express their sincere gratitude by presenting mementos to the following sponsors for their contribution to the success of our event:

1. Mr A.K.P. Chinraj, Hon'ble M.P., Namakkal
2. Mr R Lakshmanan, BCC, Palladam
3. Mr K Singaraj, President, TNPFA, Namakkal
4. Mr Ranganathan, MD., Sun India, Namakkal
5. Mr Maharajan Sakthivelayuthan, CEO, Krishi Nutrition Co. Pvt Ltd., Namakkal
6. Mr T Natesan, M.D., Virbac Animal Health India Pvt Ltd.
7. Mr Selvan Kannan, Value Consultants, Hyderabad
8. Mr P S Mohan, Sri Sara Groups, Namakkal and
9. Mr P Praveen Reddy, Proprietor, K.P.Poultry Equipments, Hyderabad

The organizers expressed their sincere gratitude to the V.H.Group and Uttara Impex Management for its all out support in making the expo a grand success in this region. The organizers also sincerely expressed their gratitude to all the exhibitors for their patronage and participation and feel that but for their participation, the expo would not have been a grand success. The expo ended with a satisfactory note.



Technical Session of Indian Poultry Expo



Dr K. Sukumar on Disease challenges in Layers & Broilers



Dr K. Sukumar honoured by B.V Shiv Shankar



Dr D. Chandrasekaran on Sustaining in layer Industry



Dr D. Chandrasekaran honoured by MRI Magdum & B. V Shiv Shankar



Dr D. Chandrasekaran also honoured by Dr. Ramdas S Kambala



Dr D. Chandrasekaran Clarifying the questions raised by Dr. Ramdas S Kambale



Dr. Manoj Reddy on Immunomodulation & Aroma therapy with Essential oil spray



Dr. Manoj Reddy honoured by B.V Shiv Shankar

Technical Session of Indian Poultry Expo



Dr. A. Kandasamy on Shooting the moving targets - Poultry Disease Control



Dr. A. Kandasamy honoured by B.V Shiv Shankar



Dr. R. Chanthirasekaran on Water Quality for Production Efficiency



Dr. R. Chanthirasekaran honoured by B.V Shiv Shankar



Dr. G. Sivakumar on Challenges in Broiler Farming



Dr. G. Sivakumar honoured by B.V Shiv Shankar



Dr. T. Vijayanand on Benefits of using exogenous enzymes in poultry diet based on level of substrates in different ingredients



Dr. T. Vijayanand honoured by B.V Shiv Shankar

Visiting the Stalls



Visiting the Stalls



Visiting the Stalls



Visiting the Stalls



Visiting the Stalls





Presentation of Mementos



Rex Christiraj honouring
Shri A.K.P Chinraj MP Namakkal



Rex Christiraj honouring
Shri K.R.N. Rajesh Kumar MP Namakkal



Rex Christiraj honouring
Shri P. Ramalingam MLA, Namakkal.



Rex Christiraj honouring
Shri K. Singaraj president TNPFA & his son

Presentation of Mementos



Dr. Meganathan Chokkalingam, AGM, VHPL
honoured by B.V. Shiv Shankar



Mr. Ranganathan, MD, Sun India
honoured by B.V. Shiv Shankar



V.S. Balasubramaniam, NECC
honoured by B.V. Shiv Shankar



R.P. Subramaniam, Secretary NKL Egg Traders
honoured by B.V. Shiv Shankar



C. Boopathy, Priya Poultry Farmer
honoured by B.V. Shiv Shankar



VHPL receiving 1st Best Decorated Stall Award
from Mr. Ranganathan



Uttara Impex Pvt. Ltd. receiving 2nd Best
Decorated Stall Award from Mr. Ranganathan



Hester Biosciences Ltd receiving 3rd Best
Decorated Stall Award from Mr. Ranganathan

Presentation of Mementos



VRB Division, VH Group receiving the memento
from Mr. Ranganathan



VENCO Division, VH Group receiving the memento
from Mr. Ranganathan



AHP Division, VH Group receiving the memento
from Mr. Ranganathan



VENTRI Division, VH Group receiving the memento
from Mr. Ranganathan



B.V. Biocorp Division, VH Group receiving the memento
from V.S. Balasubramaniam



Uttara Impex Pvt. Ltd. receiving the memento
from Mr. Ranganathan



Azra Poultry Equipments receiving the memento
from B.V. Shiv Shankar



Zeus Biotech Ltd., receiving the memento
from V.S. Balasubramaniam

Presentation of Mementos



Glocrest Pharmaceuticals receiving the memento from B.V. Shiv Shankar & V.S. Balasubramaniam



Rooters Poultry Equipments., receiving the memento from V.S. Balasubramaniam



Vesper Group., receiving the memento from R.P. Subramaniam



KP Poultry Equipments., receiving the memento from V.S. Balasubramaniam



Promies International Ltd., receiving the memento from R.P. Subramaniam



Hester Biosciences Ltd., receiving the memento from R.P. Subramaniam



Kalai Feeder., receiving the memento from R.P. Subramaniam



K.K. Kansal Pvt. Ltd., receiving the memento from R.P. Subramaniam

Presentation of Mementos



Stallen South Asia Pvt. Ltd., receiving the memento from C. Boopathy



Quality Systems and Equipments Pvt. Ltd., receiving the memento from B.V. Shiv Shankar



Hartmann India Ltd., receiving the memento from C. Boopathy



Shido Pharma receiving the memento from C. Boopathy



Karamsar Poultry Equipments receiving the memento from C. Boopathy



Adelbert Vegyszerek receiving the memento from C. Boopathy



SSR Enterprises receiving the memento from B.V. Shiv Shankar



Virbac Animal Health India Pvt. Ltd. receiving the memento from Dr. Meganathan

Presentation of Mementos



Hindustan Therapeutics Pvt. Ltd. receiving the memento from Dr. Meganathan



Devee Biologicals Pvt. Ltd. receiving the memento from Dr. Meganathan



Doctors Vet Pharma receiving the memento from B.V. Shiv Shankar



Reman Infrastructure Pvt. Ltd. receiving the memento from Dr. Meganathan



SS Agrowtech receiving the memento from Dr. Meganathan



SS Agrow Traders receiving the memento from Dr. Meganathan



Poultrendz receiving the memento from Dr. Meganathan



Adventis Biolabs receiving the memento from B.V. Shiv Shankar

Presentation of Mementos



Eswari Engineering Industries receiving the memento
from B.V. Shiv Shankar



Stanmax Laboratories receiving the memento
from Ravi Kiran



Narsipur Chemicals Pvt. Ltd. receiving the memento
from R. P. Subramaniam



Evve Technology receiving the memento
from Ravi Kiran



Sylon Group receiving the memento
from B.V. Shiv Shankar



Aadav Consultancy Services receiving the memento
from Ravi Kiran



Swiss Chemie International receiving the memento
from Ravi Kiran



Success Poultry Care receiving the memento
from B.V. Shiv Shankar

Presentation of Mementos



Nishika Poultry Services receiving the memento
from B.V. Shiv Shankar



Vibha Medicare receiving the memento
from B.V. Shiv Shankar



Geekay Poultry Equipments receiving the memento
from B.V. Shiv Shankar



Aquacare RO System receiving the memento
from Dr. N.P. Radha Krishnan



Sridevi Farm Care receiving the memento
from Dr. N.P. Radha Krishnan



Asta-pro Machinery Manufactures receiving the memento
from Dr. N.P. Radha Krishnan



Everest Industries Ltd. Care receiving the memento
from B.V. Shiv Shankar



SSAT Engineering Solutions receiving the memento
from Dr. N.P. Radha Krishnan

Presentation of Mementos



Kemin Industries South Asia Pvt. Ltd. receiving the memento from Dr. N.P. Radha Krishnan



Canara Bank receiving the memento from B.V. Shiv Shankar



J. Amala Ruth Glen receiving the memento from B.V. Shiv Shankar



Nala Hotels receiving the memento from B. Kalyan Kumar



Kavitha College of Arts & Science receiving the memento from B.V. Shiv Shankar



Xaviers Childrens Home receiving the memento from B.V. Shiv Shankar





PRESS RELEASE

37th Edition of SPACE 2023 Exhibition on Poultry & Livestock in Rennes, France from September 12 to 14, 2023, Resounding Success - Ricky Thaper

Mr. Marc Fesneau, Minister of Agriculture, France inaugurated this 37th SPACE Exhibition, a major highlight for the entire Poultry, Aqua, Dairy & Livestock farming with 1207 exhibitors from 39 different countries. More than 1,00,000 French and International visitors from over 110 countries visited this important livestock exhibition over the three days.

Mr. Marcel DENIEUL, President of SPACE said that Exhibitors at SPACE 2023 unanimously praised the quality of contacts they had with visitors during the three days' event. Mr. DENIEUL said SPACE is here to give its exhibitors the chance to present their products and solutions to its visitors and visitors will therefore be able to discover new products and existing solutions, compare the various options available, get advice from experts to help them to make the right choices and plan their investments with all the information they need at their fingertips.

Valerie Drezet Humez, Chief of Representation for the European Commission in France while visiting SPACE 2023 interacted on free-trade policies with the representatives of the agricultural professionals at a time where geopolitical stability can be worrying. She encouraged the poultry, dairy and aqua farmers to talk openly about the current and recent advance in farming. It will be most important to secure the generation turnover we need.

According to Ms. Ane Marie QUEMENER, General Commissioner of SPACE, in 37 years, SPACE has become an essential event for all. Created by the leaders of the agricultural organizations, it was designed to be a place to meet debate and exchange ideas, for all farming related professionals. Ms. Ane Marie QUEMENER added that the efforts and hard work by SPACE Team has given excellent results.



Photo 1: Group Photo of SPACE Team

Ms. Cecile BERTHIER, International Press and Exhibitors Information, SPACE informed that Poultry, Dairy and Aqua farmers working in all types of animal production were able to enjoy the Expo. The top buyers program run by the Business France as a part of the "Export Begins in France" project had welcomed major International Delegates from China, Senegal, Togo, Egypt, Iran, Kenya, Angola, Saudi Arabia, India, Mexico, South America besides European Union.



Photo 2: Mr. Ricky Thaper at Aviagen Ross booth

SPACE 2023 developed the political dimension of discussions with livestock sector stakeholders. The French Minister of Agriculture, Mr. Marc Fesneau as well as various stake holders were able to speak and convey their messages to exhibitors and livestock farmers during SPACE. These visits reinforce SPACE as a platform of expression and discussion to advance the major issues regarding the future of the livestock sectors.



Photo 3: In the picture (L to R) Mr. Ricky Thaper, Ms.

Cecile BERTHIER, Mr. Devendra Garware and Ms. Ophelie GUILLOU.

According to Amandine LEROUX, International Development, SPACE, Exhibitors and International Visitors had access to International Club where they met and interacted with foreign delegates with the help of free interpreter and also seek advice from export development agencies.

The SPACE was again a springboard for employment and international trade thanks to the job-dating events organized by APECITA, and more than 400 Business to Business meetings organized by Enterprise Europe Network between exhibitors and international investors said Ms. Chloe LETELLIER, Communication Press, SPACE. For foreign visitors, visits to poultry, dairy & sheep farms and agro industrial facilities were arranged. These tours were supported by ADEPTA and Ministry of Agriculture and Fisheries.



Photo 5: At AB Vista Booth

While interacting with exhibitors, they rated SPACE as very high quality trade show. The animal presentations also boosted the appeal and quality of our event. A series of conferences, debates and seminars that took place during the three days gave this year event a new dimension, as poultry and livestock farmers were able to express the needs and expectations, in line with the ambition of the creators of SPACE.



Photo 6: Visitors visiting and interacting with Exhibitors at SPACE 2023 Exhibition

All Indian delegates visiting SPACE Expo appreciated the arrangements at Expo by the

organizers especially at the International Club which had all facilities of translators, business meetings and refreshments for the international visitors. The 37th edition of SPACE concluded with an excellent record in terms of discussions and contacts, based on trust, in a spirit of construction and progress. The 38th Edition of SPACE will be organized from September 17-19, 2024 in Rennes, France.



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Broiler Lifting Rates for the month of August-2023

place	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Hyderabad	108	108	108	103	93	93	93	84	86	96	106	111	116	116	116	116	109	109	109	111	111	104	104	106	106	108	113	113	115	121	129
Karimnagar	108	108	108	103	93	93	93	84	86	96	106	111	116	116	116	116	109	109	109	111	111	104	104	106	106	108	113	113	115	121	129
Warangal	108	108	108	103	93	93	93	84	86	96	106	111	116	116	116	116	109	109	109	111	111	104	104	106	106	108	113	113	115	121	129
Mahaboobnagar	108	108	108	103	93	93	93	84	86	96	106	111	116	116	116	116	109	109	109	111	111	104	104	106	106	108	113	113	115	121	129
Kurnool	108	108	108	103	93	93	93	84	86	96	106	111	116	116	116	116	109	109	109	111	111	104	104	106	106	108	113	113	115	121	129
Vizag	107	107	102	97	92	92	92	90	92	97	100	108	113	113	113	113	110	110	110	110	110	105	105	107	107	112	117	117	119	126	134
Godavari	117	117	112	107	100	100	100	95	97	107	112	120	125	125	125	125	118	118	118	118	118	108	108	110	110	115	120	120	122	129	137
Vijayawada	117	117	112	107	100	100	100	95	97	107	112	120	125	125	125	125	118	118	118	118	118	108	108	110	110	115	120	120	122	129	137
Guntur	117	117	112	107	100	100	100	95	99	109	114	122	125	125	125	125	121	121	121	121	121	111	111	113	113	118	123	123	125	131	139
Ongole																															
Nammakkal	105	105	105	105	105	105	105	99	101	103	105	107	112	114	114	114	119	121	123	118	118	118	110	110	110	110	112	112	116	116	118

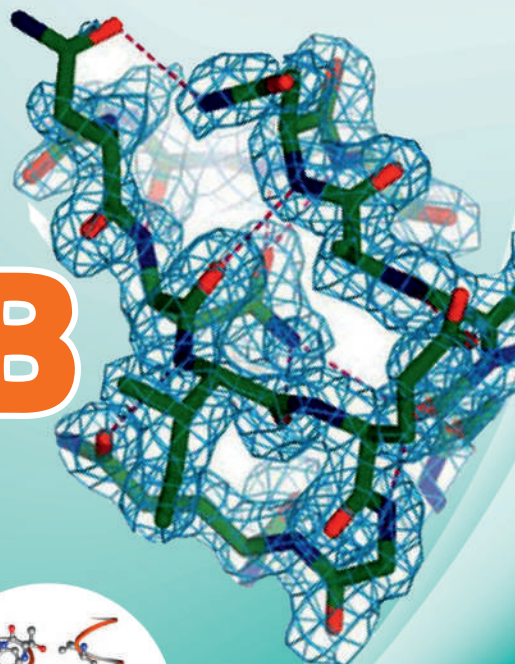
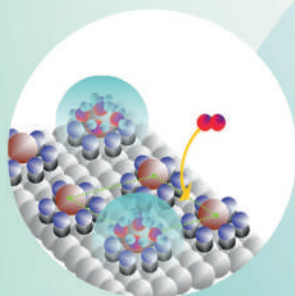
Suguna Foods Honors Channel partners with a trip to Bali (Indonesia)

27th September 2023, Mumbai: Suguna Foods, a prominent leader in the poultry and livestock nutrition industry, celebrated the outstanding dedication and exceptional contributions of its valued channel partners with an all-inclusive international trip to the enchanting island of Bali, Indonesia. The awards night witnessed participation from 98 dealers and served as a platform to recognize and honor their exceptional achievements.

Over the past year, Suguna Foods' channel partners have demonstrated remarkable commitment and a relentless pursuit of excellence. Their unwavering dedication has resulted in the exceeding of sales targets, fostering brand loyalty, and strengthening Suguna Foods' position as a leader in the industry.

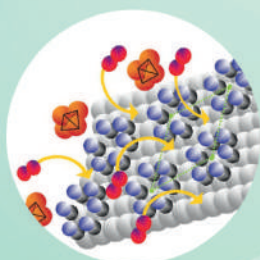
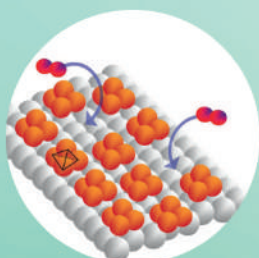
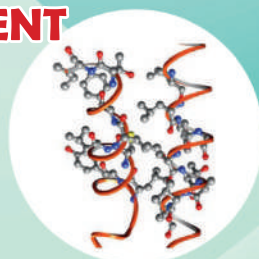
Suguna Foods spokesperson emphasized, "Our esteemed channel partners are the cornerstone of our accomplishments, and we wholeheartedly value their unwavering confidence and resolute commitment to our brand over the past year. Despite the challenges in the retail sector, we have not only persevered but also reached remarkable milestones."





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PRESS RELEASE

OPTIMA LIFE SCIENCES ORGANIZED A TECHNICAL SEMINAR IN COLLABORATION WITH NORTH INDIA BROILER PRODUCER ASSOCIATION IN KARNAL



On the 11th of September 2023, Optima Life Sciences, in collaboration with the North India Broiler Producer Association, hosted a technical seminar at Hotel Noor Mahal in Karnal. This event brought together over 70 key stakeholders from the poultry sector in the North region. The seminar proved to be a highly impactful gathering and discussions among participants in the poultry industry.

The program commenced with Optima Life Sciences' team extending their felicitations to Mr. Ranpal Dhandra, Mr. Charanjeet Singh, Mr. Sanjeev Gupta, Dr. Deepak Singh, and Mr. Girish Mulekar. The seminar officially kicked off with a welcoming address from Dr. Tarun Pal, the CEO of Optima Life Sciences. Dr. Pal extended a warm welcome to all poultry producers, stakeholders, speakers, and esteemed guests in attendance. During his opening remarks, he provided an insightful overview of Optima Life Sciences' journey, highlighting significant milestones, recent developments, and their valuable contributions to the poultry industry. He also emphasized the company's commitment to achieving remarkable progress in terms of volume, quality, and global trade by harnessing the latest research and development efforts.

Guest Speaker Mr. Girish Mulekar, a renowned feed mill expert, took the spotlight to delve into the mastery of feed quality from a feed milling perspective shedding light on the common challenges encountered in feed mills and provided practical solutions. He also elucidated strategies for optimizing feed mill efficiency from an economic standpoint. Following his insightful presentation, he fielded questions from poultry producers, addressing their inquiries. In a seamless transition from this topic, Mr. Omkar Kulkarni, Head of the FeedMate Division, further expounded on enhancing feed mill effectiveness by introducing innovative solutions offered by Optima.

He introduced Optima's comprehensive FeedMate product range tailored to enhance feed mill efficiency.

Following that, Dr. Swapnil Survase, Product Manager at Optima Life Sciences, delivered a presentation on the evolving trends in broiler farming and the recent developments within Optima's flagship brand, OptiBetaine. He emphasized that stress has become a contemporary challenge, affecting birds in the same way it affects humans, thereby directly impacting the growth and productivity of broilers. In line with this topic, he elaborated on the scientific validations of OptiBetaine in mitigating the detrimental effects of stress. The subsequent speaker, Mr. Pradeep Kumar C., DGM- Marketing underscored the significance of gut health, addressing the current challenges faced in this regard and elucidating how ButyEster Advance plays a crucial role in optimizing gut health, whether in challenging or non-challenging conditions in broiler farming. He also elaborated on the potency of ButyEster Advance as a solution for maintaining gut health and improving feed utilization in birds. He also delved into the importance of ButyEster Advance's GEH technology and presented scientific trial reports supporting its efficacy.

The Technical seminar ended with a vote of thanks delivered by Mr. Ananad Mudgil, AGM at Optima Life Sciences. He expressed gratitude to all the participants of the technical seminar, emphasizing Optima Life Sciences' unwavering commitment to research, development, and the validation of innovative solutions aimed at enhancing the poultry farming business. Mr. Kumar Gaurav Arora, Sr. Regional Manager at Optima Life Sciences highlighted the invaluable opportunity the seminar provided for poultry producers to engage in fruitful discussions and exchange ideas. The event was indeed a proactive platform for stakeholders to address current challenges and explore products and services of mutual interest.





Virbac will enter the fast-growing poultry vaccines segment in India

Carros, France, public release dated October 9, 2023 before market opening

Virbac announces the signing of an agreement to acquire Globion, a leading Indian poultry vaccines specialist. This transaction will bolster our position of animal health market leader in India by extending Virbac India's existing poultry portfolio to the growing segment of avian vaccines.

Founded in 2005, as a joint venture between Suguna Group, one of the leading Indian poultry conglomerates, and Lohmann Animal Health, a German poultry vaccines specialist, Globion has developed robust know-how and expertise in the development, manufacturing and commercialization of live and inactivated vaccines targeting a large array of avian pathogens.

Globion is based in Hyderabad where its industrial and R&D facilities employ around 120 full-time employees and generate approximately €12 million of annual revenue and is independently run by a professional team.

Sébastien Huron, chief executive officer, Virbac group said "We are extremely pleased and honored to welcome the Globion team within our Virbac family. This acquisition illustrates our 2030 Virbac vision and ambition to grow through "programmatic" M&A investing in vaccines, a key strategic axis of development, reinforcing our leadership position in India, the world's most populous country, and completing our portfolio targeting the dynamic and promising poultry market. We will fully engage with the Globion teams and provide them with additional resources to help them perform at their best. We are united with the Suguna and Globion teams by the common ambition to create long-term value for our customers and build, through innovation, a competitive portfolio of products to support the poultry industry in India and abroad."

B.Soundararajan, founder and managing director, Suguna Group said " We started Globion primarily as a source of High Quality Affordable Poultry Vaccines for Suguna Foods. In the last ten years, Globion has rapidly transformed into a fast-growing poultry biologicals company crossing 1 billion rupees of revenues by consistently gaining market share in India & export markets. By associating with a strategic partner having long term vision, infrastructure and deep understanding of animal health in Indian and global markets, we see immense potential for Globion to reach greater heights. Virbac comes out as the right choice for us since Virbac and Suguna share a common vision of adding value to the poultry industry and Virbac's acquisition of Globion is a significant step in that direction. We will continue to remain a key customer of Globion/Virbac in the future and our best wishes to both Globion/Virbac teams for continued success."

Veda Corporate Advisors were the advisors to Suguna and Globion in this transaction.



**5,400
EMPLOYEES**
+5.2% compared to 2021



**SALES
SUBSIDIARIES
IN 33 COUNTRIES**



**60%
COMPANION
ANIMALS**



1,216 MC

**SALES
2022
6th WORLDWIDE**

Ranking of veterinary drug manufacturers
+9.6% at constant exchange rates and scope compared to 2021

**40%
FARM
ANIMALS**



**PRODUCTION
SITES
IN 10 COUNTRIES**



**R&D
CENTERS ON
5 CONTINENTS**

PRESS RELEASE

EW Nutrition welcomes Jan Vanbrabant as new CEO

VISBEK (Germany), 1 September 2023 — EW Nutrition, a leading global provider of functional animal nutrition solutions, welcomes Jan Vanbrabant as its new Chief Executive Officer.

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

“We are very pleased that we have found a strong management lead in Jan, who embodies the philosophy of EW Nutrition”, says Jan Wesjohann, Managing Director of parent company EW Group. “EW Nutrition is an innovation-driven company, with intensive investment in R&D. Together with Jan we are looking to enter the next growth phase of EW Nutrition.”

“I am very excited to be joining the EW Nutrition team,” said Jan Vanbrabant. “EW Nutrition’s long-term focus has created an extremely competitive portfolio. EW Nutrition is uniquely positioned to support its customers in mastering the challenges of the changing

animal health and nutrition environment.”

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

About EW Nutrition

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

Contact:

Ilinca Anghelescu, marketing@ew-nutrition.com



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NATIONAL EGG CO-ORDINATION COMMITTEE
DAILY/MONTHLY EGG PRICES SUGGESTED BY NECC AND PREVAILING PRICES AT VARIOUS PRODUCTION CENTRES (PC) AND CONSUMPTION CENTRE (CC)

Name Of Zone / Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Average	
NECC SUGGESTED EGG PRICES																																
Ahmedabad	500	480	480	485	490	495	495	495	500	505	510	510	515	515	515	515	515	520	535	540	545	545	545	545	550	555	555	555	555	555	520.33	
Ajmer	475	465	468	483	488	490	492	492	500	510	510	510	510	510	490	490	506	521	521	521	521	521	521	531	535	535	535	535	520	530	507.27	
Barwala	472	462	465	477	485	487	490	490	492	496	501	501	501	501	501	501	501	506	520	520	520	520	520	528	531	531	531	531	531	531	505.4	
Bengaluru (CC)	465	450	440	440	460	475	480	480	485	495	500	505	510	510	515	515	515	520	530	535	535	535	535	535	535	535	535	535	535	535	504.83	
Brahmapur (OD)	497	497	497	507	517	517	517	517	522	527	532	532	532	532	532	532	532	535	540	557	557	557	557	542	545	550	555	555	555	547	532.63	
Chennai (CC)	490	490	475	475	475	475	490	490	490	500	510	520	520	520	520	520	520	520	540	540	540	540	540	540	540	540	540	540	540	540	515	
Chittoor	483	483	468	468	468	483	483	483	483	493	503	513	513	513	513	513	513	513	533	533	533	533	533	533	533	533	533	533	533	533	508	
Delhi (CC)	490	490	480	483	497	505	505	510	512	518	522	522	522	522	522	522	522	525	540	540	540	540	540	540	548	551	551	551	551	551	523.33	
E.E.Godavari	475	475	475	485	495	495	495	495	500	505	510	510	510	510	510	510	510	513	516	535	535	535	535	520	523	528	533	533	533	525	510.57	
Hospet	425	410	400	400	420	435	440	440	440	445	455	460	465	470	475	475	475	480	490	495	495	495	495	495	495	495	495	495	495	495	464.83	
Hyderabad	450	430	430	440	450	455	455	455	460	465	470	475	480	480	480	480	485	501	506	511	511	511	511	511	516	516	516	516	500	500	481.73	
Jabalpur	463	463	463	463	468	473	473	473	473	485	500	500	500	500	500	500	500	500	540	530	530	530	515	520	525	528	528	520	510	510	498.2	
Kolkata (WB)	550	550	520	555	565	565	570	570	580	585	585	585	585	575	565	555	545	615	615	615	615	585	585	590	590	590	590	590	585	590	578	
Ludhiana	472	472	472	472	490	490	490	490	491	498	500	500	500	500	500	500	500	510	520	520	520	520	520	520	528	530	530	530	530	530	504.5	
Mumbai (CC)	505	505	485	485	495	505	510	510	515	520	525	535	540	540	540	540	540	545	560	570	575	575	575	575	575	575	575	575	565	565	539	
Mysuru	465	450	440	440	460	475	480	480	480	485	495	500	505	510	515	515	515	520	530	537	537	537	537	537	537	537	537	537	537	537	505.57	
Namakkal	435	415	400	400	420	430	435	435	440	450	455	460	465	470	475	475	475	485	490	490	490	490	490	490	490	490	490	490	490	490	461.5	
Pune	490	490	480	480	490	501	505	505	510	515	520	525	530	530	530	530	530	540	555	560	565	565	565	568	571	574	574	574	565	565	532.57	
Raipur	460	460	450	455	470	480	480	480	480	495	500	500	500	480	505	495	495	495	541	541	531	520	510	510	525	525	520	515	495	-	495.97	
Surat	505	505	485	485	490	500	500	500	505	510	515	525	525	525	525	525	525	530	550	555	560	560	560	560	570	575	575	575	575	575	531.5	
Vijayawada	475	475	475	475	485	495	495	495	500	505	510	510	510	510	510	510	510	516	535	535	535	535	520	523	528	533	533	533	533	525	510.57	
Vizag	480	480	480	485	500	500	500	500	500	505	510	510	510	510	510	510	510	515	525	535	535	535	520	523	528	533	533	533	533	533	513.2	
W.Godavari	475	475	475	475	485	495	495	495	500	505	510	510	510	510	510	510	510	513	516	535	535	535	520	523	528	533	533	533	533	525	510.57	
Warangal	452	432	432	442	452	457	457	457	462	467	472	477	482	482	482	482	482	487	503	508	513	513	513	513	518	518	518	502	502	504	483.73	

Prevailing Prices

Allahabad (CC)	495	495	490	495	510	514	524	524	524	533	538	538	538	538	538	538	538	553	562	562	562	552	552	571	571	571	571	571	557	557	538.77
Bhopal	475	475	475	460	460	475	480	480	480	490	495	505	505	505	505	505	515	515	535	535	535	535	505	505	505	505	525	525	510	505	499.33
Indore (CC)	475	460	460	455	480	480	480	480	480	490	495	500	505	505	505	505	515	540	540	540	540	540	540	540	540	540	540	530	530	535	508.83
Kanpur (CC)	500	500	481	490	500	500	514	514	514	529	529	538	538	538	538	538	548	548	548	548	548	548	557	571	571	571	571	571	557	557	534.7
Luknow (CC)	517	517	517	517	517	533	540	540	540	560	560	567	567	567	567	567	567	567	567	567	567	567	576	583	590	590	590	590	590	590	558.43
Muzaffarpur (CC)	537	537	530	540	550	550	555	555	555	565	565	565	565	565	565	565	570	580	580	581	581	581	581	592	595	595	595	595	595	595	568.77
Nagpur	460	480	460	460	480	490	460	465	490	480	480	510	510	510	510	510	510	530	550	560	560	540	540	530	530	530	540	540	540	540	509.5
Patna	537	537	530	540	550	550	555	555	555	565	565	565	565	565	565	565	570	580	580	581	581	581	581	592	595	595	595	595	595	595	568.77
Ranchi (CC)	533	524	524	524	533	538	538	538	543	548	557	557	557	557	562	548	548	548	567	590	590	590	581	581	581	581	581	581	581	581	559.37
Varanasi (CC)	523	523	523	533	540	540	540	540	543	550	557	557	557	557	557	557	557	557	573	583	583	583	583	590	593	593	593	593	577	577	561.93

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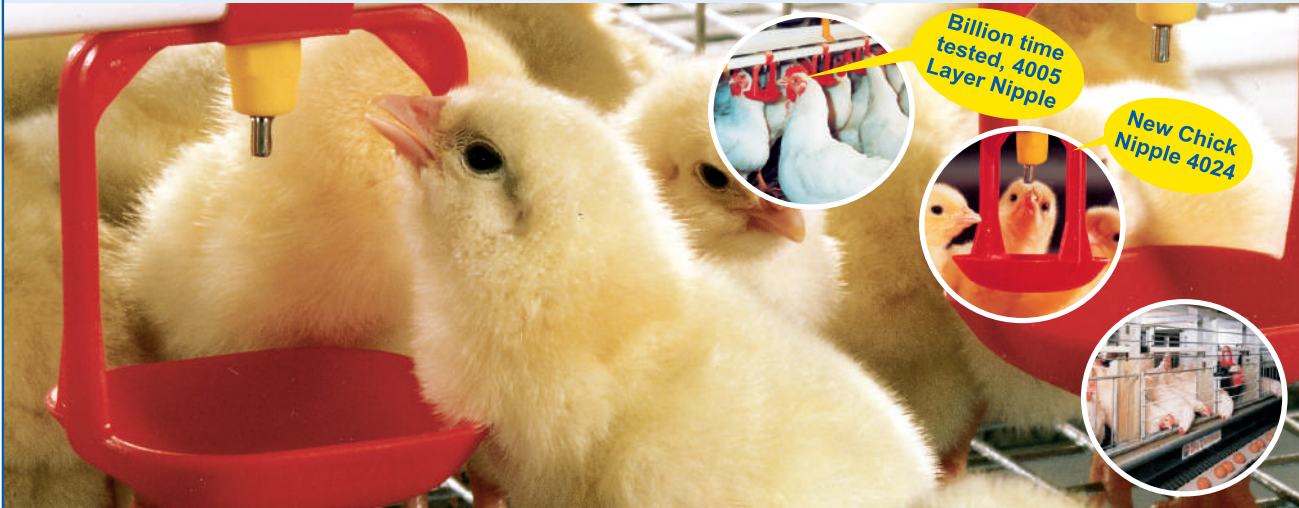
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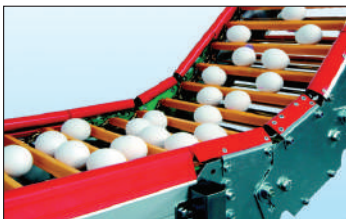
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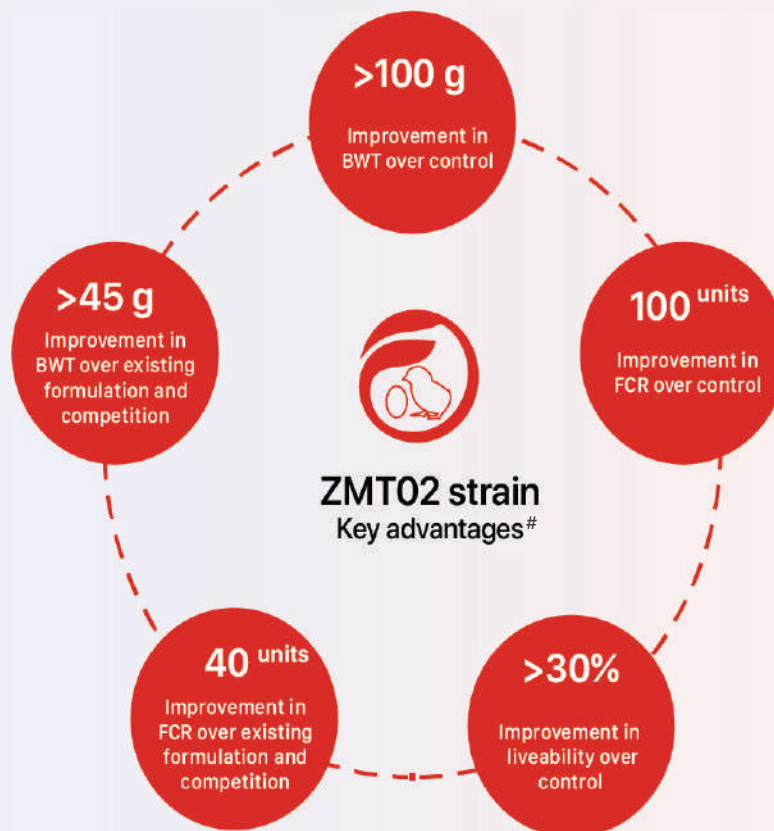
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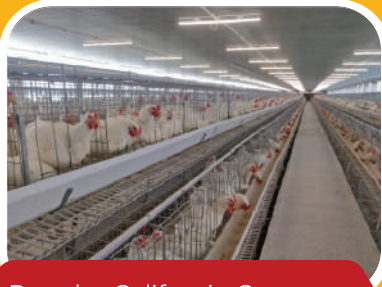
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Essentials Oils play pivotal role to protect from Respiratory Illnesses in chickens

Dr Onkar Pawaskar and Dr Mangesh sagar

Essential oils are active ingredients that are derived from extracts of plant parts such as seeds, leaves, flowers, roots, bark, wood, fruits etc. They are well known for their positive effects on bird health because of antibacterial, antifungal, natural preservative and additive action. Essential oils are produced by secondary metabolism of plants and its bioactivity depends on their complex composition of the volatile molecules. Among the various indications for their use, the application during respiratory challenges in poultry has been effectively proven. In combination with conventional treatments or as a preventive, they can help to alleviate symptoms and facilitate breathing. At the same time, they have demonstrated their antimicrobial activities in several in-vitro studies.

Essential oils contain various compounds like terpenes, terpenoids, phenylpropanes and phenols which impart the unique aromatic and bioactive properties in a range of plants. Terpenoids are one of the primary components of essential oil and synthesised from plant glandular tissues, particularly glandular trichomes. The two main precursors of terpenoids, isopentenyl diphosphate (IPP) and its isomer dimethylallyl diphosphate (DMAPP) are formed by two independent reactions in a plant cell.

Essential oils are water soluble plant extracts that are often made up of different components. Some most commonly used essential oils in poultry industry are eucalyptus oil, thyme oil, camphor oil, mint oil, lavender oil. These substances are associated with different positive effects, like an antimicrobial activity or a positive influence on respiration. Sometimes, it is just one of the chemical components of an essential oil which is responsible for its efficacy, therefore it is extracted and concentrated. Only the natural essential oils and their extracts show the desired high activity, their synthetic counterparts remain largely ineffective.

Essential oils can act as a natural antioxidant which provides health benefits against oxidative stress in animals. Antioxidant activity of essential oils may be related to their ability to scavenge reactive oxygen

molecules. Phenolic compounds are found to be more potent as anti-oxidant than vitamins E, C and carotenoids. Essential oils derived from rosemary (*Rosmarinus Officinalis*), lavender (*Lavandula spp.*), eucalyptus (*Eucalyptus oblique*), clove (*Syzygium aromaticum*), chamomile (*Anthemis nobilis*), ginger (*Zingiber officinale*), peppermint (*Mentha piperita*) and thyme (*Thymus vulgaris*) are found to be effective against oxidative damage.

The anti-inflammatory effects of essential oils were explained in number of studies. Essential oils are rich in the phenolic compound which has strong anti-inflammatory action. Extracts of curcuma, red pepper, black pepper, cumin, cloves, cinnamon, mint and ginger showed to have significant anti-inflammatory effects. Anti-inflammatory effect of essential oils can be attributable to its ability to scavenge reactive oxygen species which decreases the oxidative damage in tissue and thereby reduces inflammation. Terpenoids and flavonoids are major substances of essential oils that possess anti-inflammatory activities. They suppress the metabolism of inflammatory prostaglandins. Flavonol glycosides and flavonoid aglycons exert anti-inflammatory activity in the animal by modulating arachidonic acid metabolism through inhibition of cyclo-oxygenase and lipooxygenase activity.

Using essential oils as alternative or supportive treatment to conventional methods is gaining importance. This is reflected in the increased research about the efficacy of essential oils or their components. Many farmers have already experienced the alleviating effects of essential oils. In recent years, the beneficial use of essential oils in commercial poultry farming has been examined more closely.

Respiratory diseases in poultry often result in a reduced feed efficiency and can ultimately lead to a reduced production performance and higher mortality rates.

Natural peppermint and eucalyptus oils are commonly used to alleviate respiratory symptoms.

They have the ability to thin mucus and thus facilitate its removal from the airways. In combination with their antispasmodic and expectorant properties, the airways are cleared and breathing becomes easier during infection. One of the components of eucalyptus oil, 1,8-cineol, has also shown anti-inflammatory and immune-stimulating effects and reduced panting rates in trials. These effects are also beneficial to the animals during hot and dry summer periods, when increased dust pose an additional burden for the airways and the panting rates increase with rising temperatures.

In addition to the various effects on the respiratory systems, many essential oils have also demonstrated antimicrobial properties. Several in vitro studies have shown good inhibitory effects against bacteria, viruses, and fungi. Many studies have confirmed the antimicrobial effects of highly concentrated essential oils that they are able to permeate cell membranes and disturb the energy metabolism of the bacterial cell.

In fighting respiratory symptoms, products containing essential oils need to be used. Not only does it alleviate respiratory symptoms, but the antimicrobial effects may also have a positive influence on decreasing pathogen pressure. Especially in virus-related respiratory diseases and when the immune system is challenged during stress situations, damaged mucous membranes are susceptible to bacterial superinfections.

In conclusion essential oils and their compounds are efficient as antimicrobial, antioxidant, immuno-stimulating and anti-inflammatory agents. These compounds are considered as safe feed additive and also for water use in poultry. Essential oils and their compounds can be used as natural non-antibiotic growth promoters in chickens where problems of resistance are inevitable.

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Metabolism of magnesium and its associated disorders

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Introduction

Magnesium is a major intracellular cation that is a necessary cofactor for enzymatic reactions vital to every major metabolic pathway. The kidneys play a key role in maintaining magnesium homeostasis. During hypocalcaemia plasma magnesium concentrations will increase if dietary magnesium absorption is adequate. Magnesium deficiency causes hyperexcitability and muscle twitching. Magnesium deficiency can cause a wide variety of features including hypocalcaemia, hypokalaemia and cardiac and neurological manifestations.

Hypomagnesemia

It is an electrolyte disturbance in low level of magnesium in the blood. There is a direct effect on sodium (Na), potassium (K), and calcium (Ca) channels. Potassium channel efflux is inhibited by magnesium. Thus hypomagnesemia results in an increased efflux of potassium in kidney, resulting in a hypokalaemia. Calcium from the sarcoplasmic reticulum is inhibited by magnesium. Thus hypomagnesemia results in an increased intracellular calcium level. This inhibits the release of parathyroid hormone, which can result in hypoparathyroidism and hypocalcaemia. The neurological effects are: reducing electrical excitation, blocking release of acetylcholine, blocking N-methyl-D-aspartate (NMDA) glutamate receptors, an excitatory neurotransmitter of the central nervous system.

Arrhythmia: Magnesium is needed for the adequate function of the Na⁺/K⁺-ATPase pumps in cardiac myocytes, the muscles cells of the heart. A lack of magnesium increases potassium loss, causing intracellular potassium loss. This decrease in intracellular potassium results in a tachycardia.

Pre-eclampsia : Magnesium has an indirect

antithrombotic effect upon platelets and endothelial function. Magnesium increases prostaglandins, decreases thromboxane, and decreases angiotensin II), microvascular leakage and vasospasm through its function similar to calcium channel blockers. Convulsions are the result of cerebral vasospasm.

Asthma: Magnesium exerts a bronchodilatory effect, probably by antagonizing calcium-mediated bronchoconstriction.

Hypermagnesemia

It is an electrolyte disturbance in which there is an abnormally elevated level of magnesium in the blood. It occurs rarely because the kidney is very effective in excreting excess magnesium. Weakness, nausea and vomiting, Impaired breathing, Decreased respirations, Low blood pressure, Low blood calcium, Abnormal heart rhythms and Asystole, Decreased or absent deep tendon reflexes, Low heart rate, Dizziness. Magnesium status depends on three organs: uptake in the intestine, storage in the bone and excretion in the kidneys.

Predisposing conditions include haemolysis, magnesium concentration in erythrocytes is approximately three times greater than in serum, therefore haemolysis can increase plasma magnesium. Hypermagnesemia is expected only in massive haemolysis. Kidney insufficiency, excretion of magnesium becomes impaired when creatinine clearance falls below 30 ml/min. However, hypermagnesemia is not a prominent feature of renal insufficiency unless magnesium intake is increased. Other conditions that can predispose to mild hypermagnesemia are diabetic ketoacidosis, adrenal insufficiency, Hypothyroidism, hyperparathyroidism and lithium intoxication.





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