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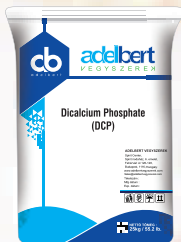
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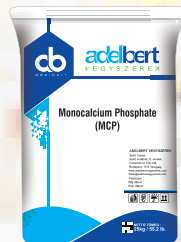
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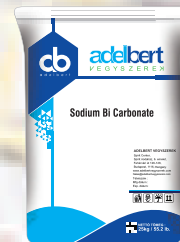
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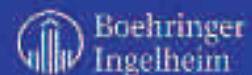
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The Royal colonial thieves

The British colonial mindset has till its momentum after seven decades. The anchors from the media, where fuming with jealousy that colonial country like India had overtaken them, not only in the GDP but also in landing at the moon out of sheer frustration, one of the media person demanded that India return the aid of 23 million. It is very important to remind the British that they better start planning the return of \$45 trillion that they looted from India, including the Kohinoor diamond that they sport on the crown unabashedly- taking pride and displaying the loot.

Until the advent of Internet and growing popularity of the use of social media and YouTube, it was possible for the global media to control and project India, as a country of very poor, snake, charmers and slum dwellers - which is far from reality, but it suited the colonial mentality to keep India in such an image. For the people to digest such consistent growth and also leave them behind becomes too hard to digest.

African continent the richest one in terms of flora and fauna with large land area plush with fertile land and rivers in most parts yet has food shortage and economy that drags its feet- how's that possible? What went wrong? The colonization and control and greed by vested corporates have drained Africa to pathetic levels. Recently, the Africans are rising in awareness to break the shackles that has continued to enslave them. India has a lot to inspire them off to realise their true potential and identify a foe from a friend.

The clash of interests in growing Maize for ethanol or food is going to be a formidable challenge for the poultry and livestock industry. The subsidies and better realization as an oil replacement will hamper the availability, quality and price adversely. Looking to alternate and viable Raw Material needs to be done on war footing.

The scarcity of food grains due to the incessant Ukraine and Russia war will continue to pose a global crisis. India is under international pressure being singled out to be more liberal even if it means sacrificing the costs for its own people as we got to see. As soon as India banned the common variety of rice for exports, not only a few countries but even the United Nations started advising India. It would be far better if the powerful in the world invested in stopping the war rather than advising others on advising crisis management.

The west will soon learn to respect India for what it is worth. For their convenience and ego they have branded India as a developing country with all the ills and problems that is pleasing to their imagination.

The advancement in technology at shoe string budget that can land its craft on the moon autonomously has surprised the world. The Russians attempt unfortunately failed. Such technology which is indigenous, speaks of its potential military might that India can display if it decides to flex its muscles



Critical problems of duck production in India with special reference to Assam

Rafiqul Islam¹, Deben Sapkota², Joga Dev Mahanta³, Arfan Ali⁴ and Mihir Sarma⁵

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Ducks are the second most important species of poultry in India. As per 20th Livestock Census (GOI, 2019), the total duck population in India is 33.51 million. India ranking 8th in the world's duck population, following China. Assam ranks second among Indian states, with a total duck population of 11.74 million, constituting about 37.63% of the total Indian duck population (20th Livestock Census, 2019). However, despite the significant number of ducks in Assam, there has been a decline in the population of the native Pati duck breed compared to the previous census. Pati duck is a native breed of Assam, recognized as the first breed declared by the National Bureau of Animal Genetic Resource (NBAGR), Karnal, Haryana. The decline in Pati duck population raises concerns about the need for its conservation to preserve this native germplasm. The Pati duck alone constitutes 85.6% of the total duck population in Assam. Duck farming is one of the most important tools for poverty alleviation, employment generation and women empowerment in rural Assam. Like chicken, duck provides hard-cash income and creates employment opportunities for rural farmers, landless people, widows and workless youths. Moreover, duck rearing is more suitable for rural area as is needed low-cost, less land, little skill, is highly productive and can be incorporated into the household work. Duck eggs and meat are the good sources of protein and can prevent malnutrition among children and women in rural areas. Duck meat and egg have special place Assamese ethnic dishes. The demand of duck products is always high in the local markets and fetches premium price. Despite several opportunities of duck farming, duck farmers of Assam face some of the bottlenecks under field condition.

Let us discuss some of the critical problems faced by the duck farmers under field condition:

a) Supply of quality day-old ducklings:

It is very difficult to get quality day-old ducklings in Assam, as the government duck farms located in different parts of Assam are practically non-functional. The duck farmers of Assam are very kin in getting pure bred ducklings from such government farms. Hence, they are bound to purchase the ducklings from some unreliable sources. Due to unscrupulous breeding practices adopted by different non-government organizations or farms, the purity of various duck breeds has been declined lead to poor production performances of ducks under field condition. More-over in rural conditions of Assam, inbreeding among Pati ducks causes inbreeding depression leads to inferior productivity. Further indiscriminate cross-breeding (Pati with other duck breed) and extensive use of exotic germplasms can lead to genetic erosion by dilution of genetic diversity causes reduction in productivity.

b) Supply of quality duck feed:

To get maximum productivity of ducks, it is essential to feed the ducks as per their nutritional requirement. Due to non-availability of commercial duck feed required for various kinds of ducks (ducklings, grower and layer), farmers are often feed their ducks with commercial broiler or layer feeds. The indiscriminate use of commercial broiler and layer feeds in ducks causes poor production. Ducks are highly prone to niacin deficiency and need three times more niacin than chicken, so if we feed commercial broiler or layer feed, ducks may suffer from niacin deficiency leading to weakness in the legs and an inability to stand or walk. Hence, extra niacin vitamin should be supplemented while feeding ducks with comer broiler or layer feeds. More-over, feeding of some non-conventional feed stuffs viz. cooked rice,

whole paddy grains cause malnutrition. Although rice is a potential source of carbohydrate, it does not contain all other nutrients ducks require for their optimal health. Hence, feeding ducks a diet high in rice and low in other nutrients may cause malnutrition resulting in various health problems.

c) Chocking hazards in ducks:

This is one of the most common hazards in duck rearing. Ducks are the voracious eaters and foragers and they will happily consume anything from plants to small snails. If ducks are overeat dry, uncooked feed stuffs like rice, whole paddy grains etc. feed may form sticky paste with saliva which cakes and accumulates on the upper ridges of the mouth resulting in chocking in ducks, which causes potential hazards and sometime leading to death. To prevent chocking in ducks, feeds should be wet and cooked properly and should be cut in smaller pieces.

d) Toxicoses in ducks:

Ducks are highly susceptible to toxins: Ducks are especially susceptible to various types of toxins. High mortality in ducks is most common due to toxicosis. The common causes of toxicosis are botulinum toxins, lead, abusive use of antibiotic and mycotoxins. Botulism is a poisoning that results from a neurotoxin produced by bacteria *Clostridium botulinum*. Ducks often suffered from botulism, when they eat spoiled food, infected dead carcass of fish or maggots that have been in the infected carcasses. The stagnant water is also a common source of botulinum toxins; hence they may get infected when ducks get access to such water. Therefore, the water bodies used for ducks like ponds, marshy lands etc. should be cleaned for presence of such undesired substances. In botulism toxicosis, magnesium sulphate (Epsom salt) is given orally to ducks as purgative to relief the load of toxin. Some of the most common poultry feed ingredients like maize, ground nut cake etc. are often contaminated with aflatoxin B1 under suitable condition. The hot and humid climatic condition is the most favorable condition for growth of molds and subsequently the production of aflatoxins. Ducks can tolerate only 0.03 ppm or 30 ppb of aflatoxin (Aflatoxin B1), while chicken can tolerate up to 0.2 ppm or 200 ppb. Wet feed

also favors growth of molds. Hence, old, moist or moldy feed should be discarded to prevent aflatoxicosis. Rapeseed meal is another feedstuff that is potentially toxic to ducks.

e) Availability of vaccine against common duck disease:

The vaccines are the indispensable part to control duck diseases under field condition. The most common diseases of ducks are duck plague, duck cholera, botulism, duck pox etc. Among these diseases duck plague (a viral disease) is the most potential killer of duck flock and it causes up to 100% mortality in ducks. It is an acute contagious infection causing sudden death in ducks. Hence, proper vaccination against duck plague is the only way to keep the ducks away from mortality. However, none of the vaccines are available at farmers' level in Assam. Moreover, vaccines are also not available in proper doses. As majority of the duck farmers of Assam are small and rear only 10-15 numbers of ducks, they need only smaller doses of vaccines (<50 doses). Lack of supply of vaccines, higher doses of vaccines and lack of skilled person are major reasons for non-vaccination of ducks.

f) Higher mortality in ducklings:

Ducklings are highly susceptible to predation, adverse climatic condition, starvation, diseases and parasites. Mostly broody hens are being used for natural incubation of duck eggs. After hatching, the broody hen takes care of the ducklings only for couple of weeks. During brooding period, the hen is unable to cover all the ducklings (8-10 nos.) due to smaller body size to protect them from cold shock and predators as well. Moreover, ducklings also lack in hiding nature and they do not have real natural defense against predators hence they become easy prey to the predators resulting in huge mortality of ducklings during brooding period. Further, broody hen used in natural brooding leave its ducklings within a short period of time, thus makes ducklings easy target to the predators. It takes around 50 to 70 days for ducklings to escape from predators and hence outmost care is needed to protect ducklings from predators during this period.

Drowning in ducklings is also a common problem faced by the duck farmers and causes huge mortality in ducklings if not managed properly. Due to improper development of oil glands, the newly hatched ducklings are devoid of oils on their feathers to prevent waterlogging and drowning hence, the newly hatch ducklings should not allow to swim in water. Once the oil glands are matured at 8-12 weeks of age, the ducklings may be allowed to swim in water. Although, ducklings can swim almost instantly, if they hatch naturally, the newly hatched ducklings may drown for many other reasons:

- a) Their muscles are too weak to sustain swimming
- b) They may get trapped in debris in water

c) Current also drag them under water

Duck farming in India has been gaining popularity for livelihood improvement of rural farm families as alternate to chickens. However, it has been facing numerous problems at farmers' field. Proper awareness, training on breeding, feeding, housing, health care etc. would be beneficial to overcome such critical problems in duck production. Moreover, there should be provision of steady supply of good quality ducklings, feeds, vaccines and medicines based on the demand of the farmers to improve the productivity of ducks. Duck farming in India could be a viable option for food and nutrition security, income generation and women empowerment through proper management of critical problems as mentioned.





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Grand launch seminar were held at Cities like Namakkal. Coimbatore, Hyderabad, Bangalore and Pune where eminent veterinarians, poultry industry stake holders and MD of many integrator companies participated. We had with us, Dr. Jeon as our chief speaker, to throw light on the Need of ND Vaccine of Genotype 7 in India & Mr. Kim Jeph Export Director of KBNP, Korea along with VirbacIndia Poultry Vaccine Team Dr.J.N.Saha & Dr. K. C. Sahoo.

Virbac Managing Director Mr. T Natesan was also present in Coimbatore and Namakkal to welcome all the participants. He welcomed the audience with a note that Virbac focus on poultry and poultry vaccines will be pivotal along with other segments. In future many more vaccines and products of Virbac will benefit the poultry.

Virbac India Senior VP Mr. Yogesh Garg, VPs Mr. Dilip Kumar Pune , Mr.R. Salar, RBM AK Velu/Siraj/ Venkat Reddy / Vijay Kumbhar have welcomed the guests and participants and happily hosted the participants along with Virbac ABM / Technical Executives/ Business Officers and Virbac Poultry Product Management team .

All Participants along with poultry consultants were very happy for such Virbac knowledge

sharing seminar on Vaccine and also liked our innovative two vaccines Dalguban N+ (Live vaccine) &Himmvac ND Lasota (Live vaccine)



Virbac India MD – Mr. T Natesan Addressing the participants at Namakkal



Welcoming Dr. Chandrashekar Sir at Namakkal



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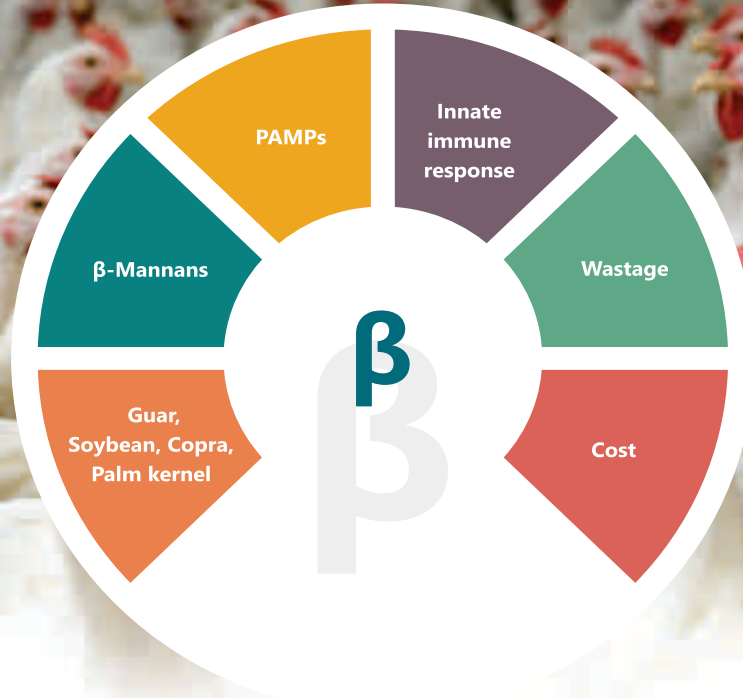


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Empowering Layer Farmers Through Knowledge Sharing Programmes by Rossari Biotech Limited

In a bid to elevate and enrich the layer farmers with knowledge for maximizing egg production and quality, Rossari Biotech Limited recently organised technical programmes in Tanuku, AP and Panipat, Haryana featuring Dr D Chandrasekaran and Dr Badal Singh as keynote speakers. The technical programmes were aimed to provide valuable insights and practical guidance to layer farmers, helping them optimize their practices and approach for increased efficiency & sustainability.

Dr. D Chandrasekaran, renowned poultry health & nutrition expert, deeply explained the optimisation of calcium metabolism and availability to play a crucial role in enhancing the strength and quality of eggshells in layer birds during extended production cycles. He further highlighted the significance of determining the calcium source, its ratio proportion, particle size, and the influence of different raw materials in the diet.

Furthermore, Dr Badal Singh, layer health expert and the keynote speaker at the Panipat seminar presented a well thought and insightful talk explaining how to

collaborate science of the breed and management at the farm to achieve the bird's genetic potential under various challenges in the production cycle.

Dr. Anand Khandwekar, General Manager, Technical, Rossari Biotech Ltd., delivered a comprehensive presentation on the NSP profiling of the diet, gut health, enzyme impact, and its consequent effect on egg production.

Dr. Aashaq Hussain, Assistant General Manager – Technical, Rossari Biotech Ltd., provided the audience with insights into the company's manufacturing capabilities, quality standards, research and development efforts, and the core product portfolio with various industry applications.

In his concluding remarks, Dr. Anish Kumar, Vice President, Rossari Biotech Ltd., emphasized the paramount importance of maintaining gut health and employing enzyme modulations, as well as selecting the right kind of trace minerals for the layer diet to optimize egg quality and production. He also expressed gratitude to all participants for their active engagement and attendance in the technical meet.





Successful Conclusion of Inaugural Session I for 64th National Symposium 2023 Livestock Sector: Looking Beyond the Present



New Delhi, 18 August, 2023 – The inaugural session I of the CLFMA of India symposium concluded on a high note on Friday, August 18, 2023. The event, held at Hotel Le Meridien in New Delhi, witnessed the participation of esteemed dignitaries and industry leaders, who shared valuable insights on the future of the animal husbandry, dairying and fisheries, sectors in the country.

The session began with an auspicious lighting of the lamp by esteemed guests, including Guest of Honour Shri. Parshottam Rupala, Hon'ble Minister of Fisheries, Animal Husbandry & Dairying, Government of India, and CLFMA Chairman Mr. Suresh Deora along with Mr. Divya Kumar Gulati, Convenor, CLFMA, Hon. Secretary Mr. Abhay Shah. The chairman felicitated Shri. Parshottam Rupala with a bouquet, shawl, and memento to mark the occasion.

Mr. Divya Kumar Gulati, the convenor of the event, delivered a warm and welcoming address, setting the tone for an engaging and informative session. This was followed by a thought-provoking address by Mr. Suresh Deora, Chairman of the CLFMA of India, who highlighted the industry's potential and challenges.

The highlight of the event was the prestigious CLFMA Lifetime Achievement Award. It recognized two exemplary individuals for their significant contributions to the livestock industry. The award was announced and presented recognizing their achievements and dedication to the sector. Shri. Nadir B. Godrej, Past Chairman, CLFMA OF INDIA and Chairman & MD of Godrej Industries Ltd. and Shri. Tarun Shridhar, IAS (Retd.) were honohonoured with the CLFMA Lifetime Achievement Award. The awards were presented by Shri. Parshottam Rupala.

Shri. Nadir B. Godrej thanked CLFMA for the award

with full heart and spoke about his journey in the animal feeding business. The glimpses he shared were not only fascinating but inspiring too. Shri. Tarun Shridhar, IAS (Retd.) humbly thanked for the honour and nostalgically remembered how the sector has given him the vast knowledge, experience, insights and friends he adores today.

The much-awaited Livestock Survey Report (Volume - II) was also launched at the event. Hon'ble minister Shri. Parshottam Rupala, Chairman Mr. Suresh Deora, Mr. Nadir B. Godrej, Shri. Tarun Shridhar, Mr. Divya Kumar Gulati and honorary Secretary Mr. Abhay Shah, were present on the dais to unveil the report. The report provides valuable insights into the current state of the livestock sector and outlining future opportunities and challenges. The report is expected to serve as a guiding resource for industry stakeholders, policymakers, and researchers.

Hon'ble Minister of Fisheries, Animal Husbandry & Dairying, Government of India, Shri. Parshottam Rupala, delivered an address at the event. As they say storytelling is the best way to communicate life experiences, our guest of honour shared his life insights with stories of inspiration and success.

He shared valuable insights into government policies and initiatives aimed at promoting the growth and development of the livestock sector. He also highlighted the government's commitment to the development and growth of the fisheries, animal husbandry, and dairying sectors in the country.

Hon'ble minister emphasised that the "Livestock holds an ancient tradition that connects us to our roots. Before we became an agricultural nation, we were herders, showing the deep-rooted connection we have with animals. Animals once relied solely on nature for their sustenance, grazing from morning till afternoon, trusting





in their fate. But with amendments in animal feeding practices, we have become the top milk producer in the world contributing 24% of global milk production, emphasizing the importance of conscientious farming.”

Although he raised concerns that “Livestock farmers are currently facing challenges with fodder availability.. This affects health of animals which directly impacts the income of cattle herders. So the industry needs to address this issue on a large scale along with the need for proper care and attention of livestock.” He added “The government’s efforts to merge technology with livestock are commendable. The introduction of vaccination and mobile veterinary units revolutionized the care of livestock.”

Shri Rupala is very hopeful for the fisheries sector as well. In his speech he brought everyone’s attention to inspiring numbers. “India has tremendous potential to lead the world in the fisheries sector. From a mere Rs 3680 crore expenditure from independence till 2014, to a 20,000 crore Pradhan Mantri Matsya Sampada Yojana today, the transformation in fisheries sector is astounding. With the volume of aquaculture soaring from 30,000 crore in 2014 to 63,000 crore today, the potential to lead the world in this sector is within our grasp. Together, let us unlock the immense potential within our communities, industries, and government to become global leaders in fisheries.”

The session concluded with a vote of thanks delivered

by Mr. Abhay Shah, honorary Secretary of the CLFMA of India, expressing gratitude to all the distinguished guests, esteemed speakers, delegates and participants for their valuable contributions and making the inaugural session a resounding success. This was followed by a networking lunch.

The CLFMA of India conference had set a strong foundation for the subsequent sessions, and discussions that would take place over the following days. With the enthusiastic participation of industry experts, policymakers, and stakeholders, the symposium aimed to explore strategies and solutions for the sustainable growth of the fisheries, animal husbandry, and dairying sectors, contributing to the overall development of the country.

About CLFMA of India :

CLFMA, also known as The Compound Feed Manufacturers Association, was established in June 1967. Over the years, it has gained recognition and support from various stakeholders including the Central and State Governments, livestock farmers, and related organizations. With a membership of 250+, CLFMA represents all sectors of the livestock industry. This includes entities involved in feed manufacturing, poultry, dairy, aquaculture business, animal nutrition and health, veterinary services, machinery and equipment, as well as processing, distribution, and retailing of meat and ancillary services such as banking.

In addition to its domestic recognition, CLFMA is also acknowledged by international sectors. It is highly regarded by government departments, agricultural universities,

veterinary colleges, and national research institutes within India. Furthermore, CLFMA is respected by related industries outside the country.

For more information, please visit [www.clfma.org] (<http://www.clfma.org>).



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Successful Conclusion of Inaugural Session II for 64th National Symposium 2023 Livestock Sector: Looking Beyond the Present



New Delhi, 18 August, 2023 – The CLFMA of India (Compound Livestock Feed Manufacturers Association) concluded its highly anticipated Inaugural Session - II event, marking a significant milestone in the organization's journey on Day 1 of 64th National Symposium 2023. The event was held at Hotel Le Meridien in New Delhi. The event witnessed the presence of esteemed dignitaries from the government, industry leaders, and key stakeholders. The event centred on the theme "Livestock Sector: Looking Beyond the Present" and aimed to bring together industry leaders, policymakers, and experts to discuss the future of the livestock sector in India.

The event commenced with the lighting of the lamp ceremony, where all the dignitaries were invited to the dais. Dr. O. P. Chaudhary, Joint Secretary (NLM/PC), Department of Animal Husbandry & Dairying, Ministry of Fisheries, Animal Husbandry and Dairying, Government of India graced the occasion as the Guest of Honour. Shri. Nadir B Godrej, Past Chairman of CLFMA of India and Chairman & MD of Godrej Industries Ltd; Shri Tarun Shridhar, IAS (Retd.); CLFMA Chairman Mr. Suresh Deora; Deputy Chairman Mr. Sumit Sureka; Convenor Mr. Divya Kumar Gulati and Hon. Secretary Mr. Abhay Shah were present on the dais with the guest of honour.

Dr. O. P. Chaudhary was felicitated by Mr. Suresh Deora with a bouquet, shawl, and memento to mark the occasion. Mr. Sumit Sureka, Deputy Chairman, CLFMA felicitated Shri. Nadir B Godrej and Shri Tarun Sridhar was felicitated by Mr. Divya Kumar Gulati.

Mr. Divya Kumar Gulati, Deputy Chairman of CLFMA of India, delivered the welcome address, highlighting the importance of the event and expressing gratitude to all participants. Following the welcome address, Mr. Suresh Deora, Chairman of CLFMA of India, addressed the audience.

A key highlight of the event was the CLFMA Audio Visual Presentation which showcased the achievements and initiatives undertaken by CLFMA of India in the past year. The presentation highlighted the organization's efforts in promoting animal health, welfare, and sustainable practices in the livestock sector.

Mr. Nadir B. Godrej, Past Chairman of CLFMA of India; Chairman & MD of Godrej Industries Ltd., and CLFMA Lifetime achievement awardee delivered the keynote address. For a change this time the keynote address was in the form of a long poem. The poem showcased the glimpses of his journey, discussing serious issues of agriculture, livestock, dairy, poultry, animal feed and fodder, alternate feed, rising prices, challenges faced, factors like environment, economics, carbon footprints, efficiency improvement and our future.

His poetic keynote address gave us a lesson that in the tapestry of agriculture and livestock, we must weave the threads of innovation and sustainability, for only then can we create a future where abundance coexists with harmony, and where the well-being of our planet is nurtured alongside the progress of our industries. His speech focused on the current trends and future prospects of the livestock sector, emphasizing the importance of technological advancements and the role of industry stakeholders in driving sustainable growth.

In the 64th National Symposium, CLFMA Lifetime





achievement awardee Shri. Tarun Shridhar, IAS (Retd.) shed light on the theme 'Livestock Sector: Looking Beyond the Present' and shared valuable insights. The livestock sector encompasses various aspects such as animal husbandry, fisheries, and aquaculture. This sector has witnessed impressive growth since its establishment.

“One notable development in this sector occurred in February-March 2019 when the decision was made to separate the Department of Fisheries from the Department of Animal Husbandry. This move recognized the distinct nature and importance of each sub-sector within livestock.”

He even emphasised that “It is remarkable that animal husbandry contributes over 30% to the agricultural GDP, despite receiving less than 5% of total investment in comparison to agriculture. To further emphasize the significance of this sector, the Ministries of Fisheries were separated from Animal Husbandry and Dairy, highlighting the need for dedicated focus and attention. This separation from the agriculture ministry was a significant step towards recognizing the unique challenges and opportunities present in the livestock sector. It also paved the way for targeted investment in terms of both financial resources and appropriate policies.”

In his address he remembers, “In fact, the first agenda item discussed in the first cabinet meeting of the new government was a 15,000 crore project aimed at eradicating disease control and improving the food processing system within the livestock sector. This demonstrates the government’s commitment to prioritize and support the growth and development of this sector.”

“Moreover, the livestock sector has proven to be beneficial to our economy, as evident in the export of

fish and buffalo meat. These products, derived from livestock, contribute to our nation’s economic growth and provide opportunities for international trade.”

He even foresees “The Livestock sector plays a crucial role in our economy, and it is time we look beyond the present and invest in its growth. With appropriate policies and infrastructure development, this sector has the potential to create entrepreneurship opportunities and contribute significantly to our GDP. Let us encourage our children to consider careers in agriculture, fish farming, and animal husbandry, and pave the way for a sustainable and prosperous future.”

In conclusion, Shri. Tarun Shridhar’s insights highlight the immense potential of the livestock sector and the need to look beyond the present to harness its full capabilities. “CLFMA has the potential to become a powerful advocate for the industry, taking a strong stand and voicing the concerns and aspirations of its members.”

The address was followed by the presentation of the prestigious CLFMA Award. The CLFMA (Compound Livestock Feed Manufacturers Association) Award is a prestigious recognition given to livestock feed manufacturers who have made significant contributions to the industry. This annual award aims to acknowledge the hard work, innovation, and excellence demonstrated by livestock feed manufacturers in India.

CLFMA award serves as a catalyst for the growth and development of the livestock feed industry. By acknowledging and celebrating excellence, it encourages manufacturers to continue striving for higher standards and innovation in their products. Ultimately, this benefits not only the manufacturers but also farmers, consumers, and the entire livestock farming ecosystem.

CLFMA recognized the exemplary contributions of Dr. Anand Kumar Pathak, Senior Assistant Professor





(Animal Nutrition) in SKUAST Jammu and Dr. Pankaj Kumar Singh, Professor and Head of Animal Nutrition Department of Bihar Animal Sciences University, Patna with the prestigious CLFMA Award. The awardees were felicitated by Dr. O. P. Chaudhary, Joint Secretary (NLM/PC).

The event also saw the launch of the official souvenir, marking a significant milestone in the symposium with key dignitaries Dr. O. P. Chaudhary, Mr. Nadir B. Godrej, Mr. Suresh Deora, Mr. Divya Kumar Gulati, Mr. Sumit Sureka, Mr. Naveen Pasuparthi, Mr. Sandeep Kumar Singh, Mr. Abhay Shah, present on stage. All office bearers were invited on stage to be an auspicious part of the prestigious moment.

Dr. O. P. Chaudhary addressed the audience, highlighting the initiatives undertaken by the Department of Animal Husbandry & Dairying to promote the growth of the animal feed industry. He highlighted the government's initiatives and policies to support the livestock sector, encouraging industry players to leverage these opportunities for the sector's growth. He highlighted 3 major points in his speech.

1. "The government officials are now realizing that they are facilitators, and it is their responsibility to come upfront to guide and help people in the animal feed industry. This includes making policies that support the growth and development of the feed industry."

2. "Additionally, there is a need to address the issue of providing nutritious and balanced food to the poor section of the society. By innovating and balancing the feed and fodder, we can reduce the cost and make it accessible to the weaker sections. For those associated with CLFMA, it is important to explore new ways to earn and fulfil their needs. Exporting to other countries, particularly those that are economically weaker than us, can be a viable option. It is crucial to seek support from the government in this regard. It is also important

to focus on increasing the purchasing power of the people and ensuring that the needs of those who do not have sufficient financial resources are also fulfilled. To achieve this, efforts should be made to include the unorganized sector in the organized sector."

3. "Currently, the capital subsidy in Animal husbandry for structural development fund will see a significant growth with an increase from 3 to 5 percent, making it 15,000 crores to 25,000 crores."

"Overall, there are several opportunities and challenges in the animal feed industry. By working together, government, industry, and stakeholders can create a favourable environment for growth and development." At the end of his speech, he congratulated all the CLFMA awardees as well.

As the event drew to a close, Mr. Abhay Shah, Honorary Secretary of CLFMA of India, delivered the vote of thanks, expressing gratitude to all the dignitaries, eminent speakers, participants, sponsors, and organizers who made the event a success. He emphasized the importance of collaboration and knowledge sharing in driving the growth of the livestock sector. The evening was followed by an enjoyable networking dinner and live performances. This provided an opportunity for the participants to unwind, connect with industry peers, and build lasting relationships.

The CLFMA of India is proud to have organized such a successful event, bringing together industry leaders and stakeholders for insightful discussions and networking opportunities. The 64th National Symposium of CLFMA of India proved to be a significant platform for knowledge exchange, discussion, and collaboration in the livestock sector. The event successfully shed light on the challenges and opportunities beyond the present, encouraging stakeholders to work towards a sustainable





and prosperous future for the industry.

About CLFMA of India :

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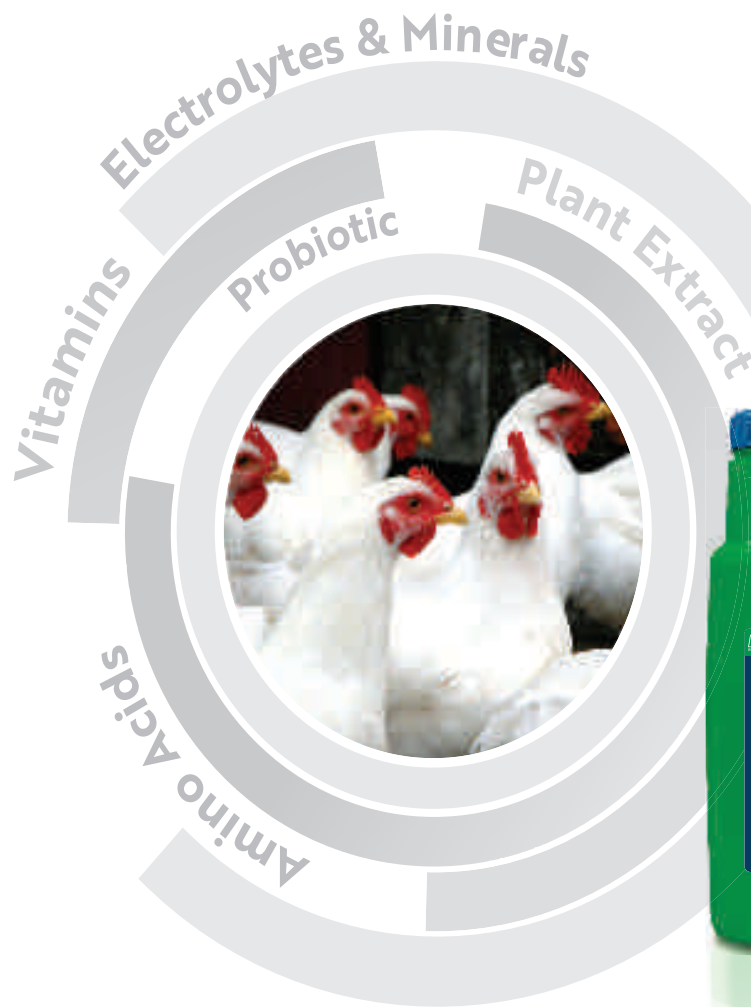
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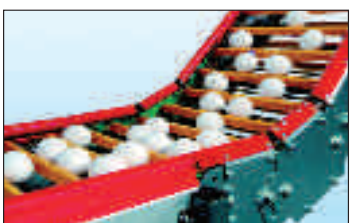
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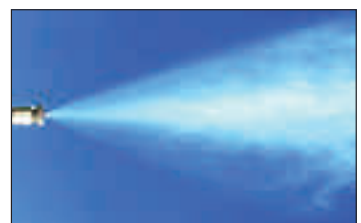


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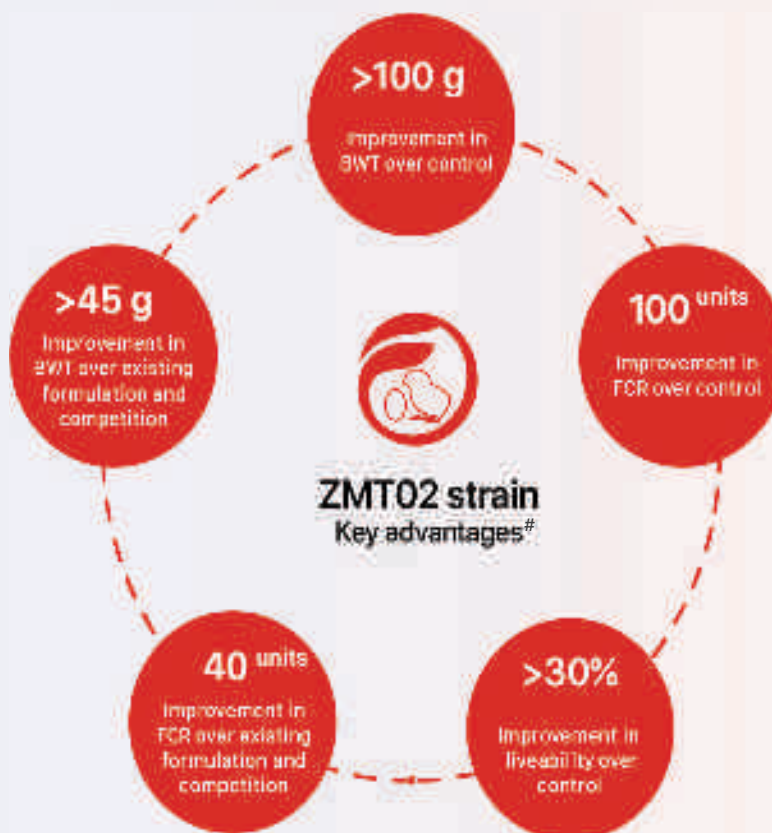


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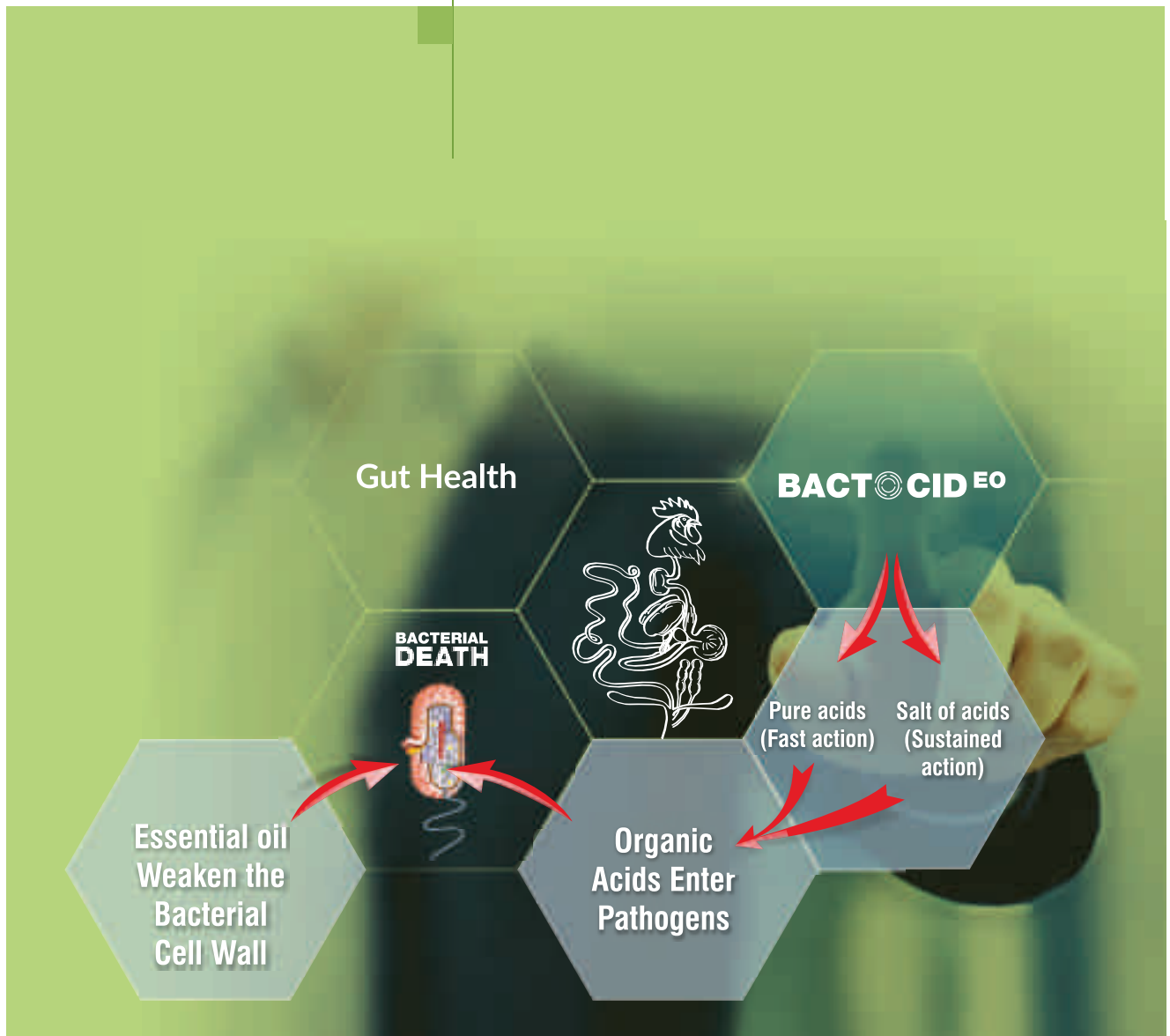
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Pune, 10th August 2023

Optima Life Sciences, a leading Animal Health & Nutrition Company, is pleased to announce the appointment of Dr. Tarun Pal as its new Chief Executive Officer, effective 2nd August 2023.

With over three decades of cross functional leadership experience across highly reputed business establishments producing sustained revenue and turnaround growth in domestic and international venues, Dr. Tarun brings with him a wealth of knowledge and experience from the Animal Health & Nutrition sector.

A Veterinarian with MBA, the new CEO of Optima Life Sciences, Dr. Tarun Pal will be responsible for overseeing the strategic direction and overall operations of the Company. He will work closely with the management team to further strengthen Optima Life Sciences' position as a pathbreaker & trend setter in the industry and drive the next phase of innovation & growth.

"We are delighted to welcome Dr. Tarun Pal to Optima Life Sciences Pvt Ltd as CEO," said Executive Chairman of the Board, Mr. Vinay Kulkarni. He further said, "With his rich knowledge, experience and innovative ideas and brilliant approaches, we are looking forward to our Company's progress. With Dr. Tarun's induction, I am sure Optima will scale new heights under his inclusive leadership".

Dr. Tarun expressed his excitement about joining Optima Life Sciences, stating, "I am honoured to have been chosen as the CEO of such an innovative organisation. I am grateful for the opportunity and looking forward to fostering a positive and inclusive environment where everyone can thrive. Together with the talented team of Optima Life Sciences through innovation and customer centric approach, I would focus on expanding on our market presence – domestically & internationally, and co-create value for our customers and stakeholders."

About : Optima Life Sciences Pvt Ltd

Optima Life Sciences Pvt. Ltd. was established in 2010 and is today a leading and fast-growing Company in the animal health and nutrition sector. Optima is an innovative, pathbreaker and trendsetter in conceiving, developing, and marketing a range of feed additives and bio-security products. It uses cutting-edge technology, the best laboratory facilities with modern infrastructure and skilled manpower. Being an innovative Company, it concentrates on R&D as an essential component of Optima's vision & culture.

We recognize the importance of nurturing relationships that reflect our culture of unwavering ethics and mutual respect. Hence in this short period of time, we have tied up with four international companies in our endeavor to deliver the best to the clients.

Optima believes in Diversification of business. With an aim to provide complete wellness to life; Optima Life Sciences has started its new personal hygiene & wellness division named Optisan – droplets of pure science. It aims to provide a complete hygienic ecosystem to the consumers.



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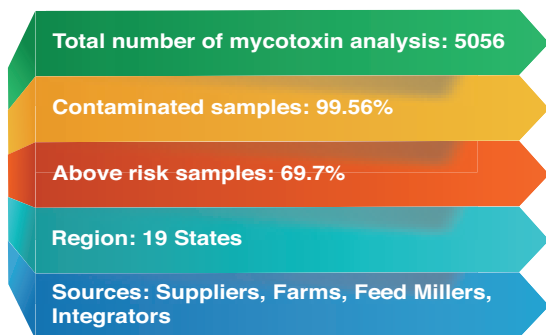
Cargill Mycotoxin Survey

Cargill Mycotoxin Survey (India)

Survey period: January'23 - July'23



Poultry feed production and cost are major issues faced by poultry industry in India. Raw ingredients, such as corn, soyabean, rice and their by-products: pea nut meal, DDGS, corn gluten meal are being used for the production of poultry feed. Due to the competitive pricing of raw material and their non availability in the market, sometimes lower quality feed ingredients are used in poultry feed production. These materials may be stored for longer periods and due to poor storage conditions, they may get contaminated with fungi, due to favourable conditions prevalent in India. Some fungi may produce mycotoxins as secondary metabolites that further contaminate these raw ingredients used for feed production with varying degrees of pathogenicity. They can have additive effect with other mycotoxins, infectious agents or nutritional deficiencies. This Cargill Mycotoxin Survey presents overview of Mycotoxin Prevalence in India for the last seven months (January'23 – July'23).



**High
Risk Zone**



Key highlights of Mycotoxin Survey:

1. India comes in high risk zone, as 50 – 74% analysed samples were above performance risk level for mycotoxin contamination.
2. Aflatoxin is the most prevalent mycotoxin followed by Fumonisin, Zearalenone and T2. which all can reduce performance and increase disease incidence in Poultry industry. They exert their effects through alteration in nutrient content, absorption, and metabolism, changes in the endocrine function and suppression of the immune system.
3. Highly contaminated ingredients are: Deoiled Rice Bran (DORB), Dried Distillers Grain Soluble (DDGS), Corn Gluten Meal (CGM) and Pea Nut Meal. These ingredients should be used judiciously with precautions. Regular mycotoxin analysis should be conducted to know contamination levels for these ingredients.
4. Moderately contaminated ingredients are: Corn, Soyabean Meal (SBM) and Broken Rice. Corn is major constitute of poultry feed & being used more than 50%, Therefore, low level of contamination in corn could be highly harmful for bird.

Raw Material: All

Mycotoxin	N ^o Samples	N ^o Positive	N ^o Above Performance Risk	Average (ppb)	Maximum (ppb)
Aflatoxin (Total)	4,871	4,859	3,410	50	481
Fumonisin	60	51	35	1,206	8,310
T2 Toxin (Total)	58	58	38	77	513
Zearalenone	67	66	41	69	387

% above Performance Risk ■ 0-24% ■ 25-49% ■ 50-74% ■ 75-100%

Raw Material: DeOiled Rice Bran (DORB)

Mycotoxin	N ^o Samples	N ^o Positive	N ^o Above Performance Risk	Average (ppb)	Maximum (ppb)
Aflatoxin (Total)	3,819	3,816	3,133	59	375
Fumonisin	20	19	14	1,376	4,170
T2 Toxin (Total)	19	19	13	38	75
Zearalenone	20	20	17	90	226

% above Performance Risk ■ 0-24% ■ 25-49% ■ 50-74% ■ 75-100%

Raw Material: Soyabean Meal

Mycotoxin	N ^o Samples	N ^o Positive	N ^o Above Performance Risk	Average (ppb)	Maximum (ppb)
Aflatoxin (Total)	45	44	8	6	23
Fumonisin	9	8	4	545	1,950
T2 Toxin (Total)	9	9	6	80	223
Zearalenone	10	10	7	86	187

% above Performance Risk ■ 0-24% ■ 25-49% ■ 50-74% ■ 75-100%

Raw Material: Groundnut by products

Mycotoxin	N ^o Samples	N ^o Positive	N ^o Above Performance Risk	Average (ppb)	Maximum (ppb)
Aflatoxin (Total)	29	28	21	53	240
Fumonisin	9	5	3	490	1,390
T2 Toxin (Total)	8	8	4	30	65
Zearalenone	9	9	2	29	138

% above Performance Risk ■ 0-24% ■ 25-49% ■ 50-74% ■ 75-100%

Raw Material: Dried Distillers Grain Soluble (DDGS)

Mycotoxin	N ^o Samples	N ^o Positive	N ^o Above Performance Risk	Average (ppb)	Maximum (ppb)
Aflatoxin (Total)	28	28	28	71	257
Fumonisin	9	6	6	624	1,860
T2 Toxin (Total)	11	11	10	170	513
Zearalenone	11	11	9	91	387

% above Performance Risk ■ 0-24% ■ 25-49% ■ 50-74% ■ 75-100%

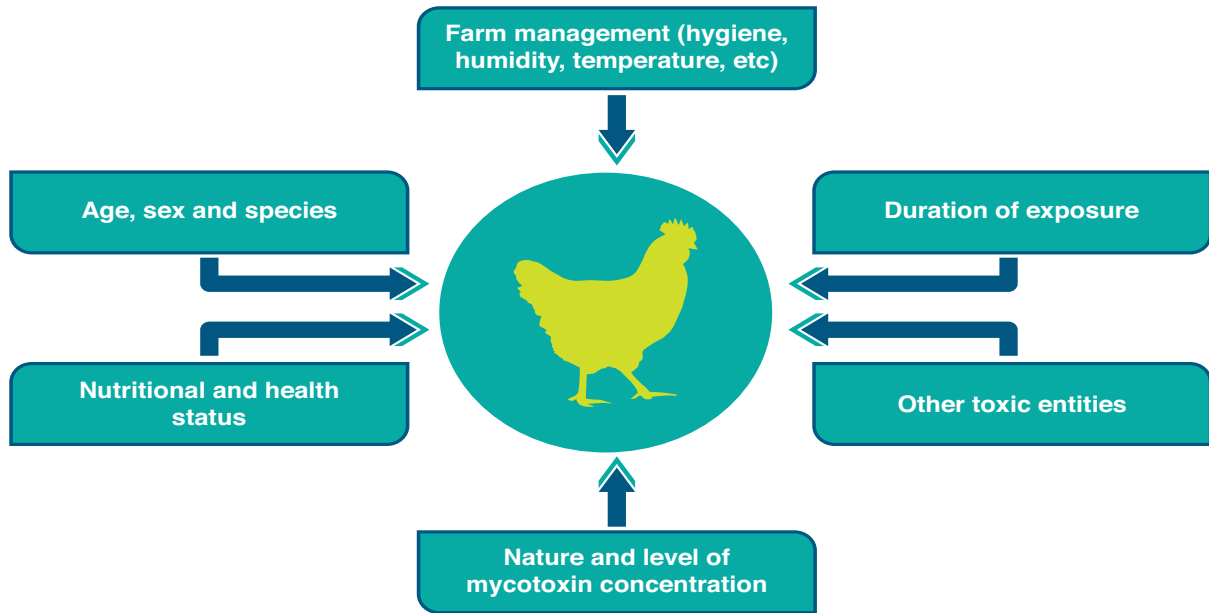
Raw Material: Corn

Mycotoxin	N ^o Samples	N ^o Positive	N ^o Above Performance Risk	Average (ppb)	Maximum (ppb)
Aflatoxin (Total)	897	890	197	14	481
Fumonisin	8	8	4	2,619	8,310
T2 Toxin (Total)	7	7	2	20	41
Zearalenone	7	6	1	8	15

% above Performance Risk ■ 0-24% ■ 25-49% ■ 50-74% ■ 75-100%

Various factors affecting Mycotoxicosis

Exposure to mycotoxins is a worldwide concern as their occurrence is unavoidable and varies among geographical regions. Mycotoxins can affect the performance and quality of production and act as carriers putting human health at risk. There are various factors affecting degree of Mycotoxicosis.



Mycotoxin Mitigation Strategies:

Multipronged strategies have to be curated for combating mycotoxin issue as there are various factors, which are affecting poultry at different level. Prevention is always better than cure.

Pre Harvest: Selection of varieties of seed, control of insects & pest, Rotation of crops, collection procedure of harvest, cleaning & drying

Post Harvest: Pest control, Moisture control, temperature control, cleaning of facilities, regular mycotoxin analysis, ventilated storage facility, Treatment of contaminated raw ingredients, Dilution of contaminated raw ingredients, extra precautions during Monsoon seasons.

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 Cargill Premix & Nutrition

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Risk Zone	Above Performance Risk (%)
Low risk zone	0 – 24%
Moderate risk zone	25 – 49%
High risk zone	50 - 74%
Severely high risk zone	75 - 100%



Vechta, August 2023

WELTEC BIOPOWER is constructing three biogas plants in Greece

Farmers focus on proven stainless steel technology

The Greek agricultural sector has trusted WELTEC BIOPOWER's biogas technologies since 2007 - and this trend is continuing. Most recently, three biogas plants were built, which the German manufacturer designed together with its Greek cooperation partner Tektoros Machinery. Two of these are located in the Epirus region, in northwestern Greece: a 1-megawatt plant in the town of Arta and a 500-kilowatt plant in Ioannina. The third one, a 250-kilowatt biogas plant project, was realized in Serres, in central Macedonia. Here, an upgrade of the CHP plant to 750 kilowatts is also being implemented. The plant in Ioannina will go into production in the fall of 2023.

The region around Epirus is particularly rural. Poultry and cattle production dominate the area. As in many other intensive farming areas, the biomass supply there is higher than the processing capacity of the existing plants. The construction of new biogas plants and the modernization of existing ones are therefore profitable, especially since such projects are supported by subsidies. Thus, not least, the rich substrate supply at the three plant locations was also an important factor for the investment decisions.

At the 1-megawatt plant in Arta, 150 tons of cattle slurry and 50 tons of dry chicken manure are processed daily. At the biogas plant site in Ioannina, the daily input is made up of 100 tons of cattle slurry and 30 tons of dry chicken manure. And in Serres, a substrate mix of 40 tons of cattle manure and 10 tons of energy plants enters the stainless steel digester daily. Here, in addition to his cattle farming, the operator owns land on which corn is grown.

At all three sites, the materials are first sent to a pre-storage tank. Special agitators and pump technology ensures the pretreatment. In the digesters, the proven agitators then mix the substrates for efficient biogas production. The two digesters in Arta each hold 4436 cbm, in Ioannina there is a 3993-cbm digester, and the tank in Serres measures 4905 cbm. „All tanks are made of high-grade stainless steel,” specifies the responsible process engineer at WELTEC BIOPOWER, Tobias Peuker. According to him, the fermentation residue from the digester with its high nutrient content can also be used as fertilizer afterwards.

The three biogas projects are an important part of the Greek energy transition. For example, according to a report by DAPEEP S.A., the Greek market operator for renewable energy sources, new biomass, and biogas plants with a total capacity of 7 megawatts came online in the first half of 2022. The Greek Energy and Climate Plan aims to double the share of renewable energy in electricity generation from 30 % in 2021 to 60 % in 2030. WELTEC BIOPOWER has already implemented a total of around 36 biogas plants and projects there since 2007. And the path to decarbonization continues to make progress: In the summer of 2023, Greece's entire one-day energy demand could have been supplied from renewable energy sources for the first time. „This means we are well on our way and will continue to make our contribution to achieving the goal,” predicts WELTEC BIOPOWER's Greek sales partner, John Tektoros.



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Pressemitteilung

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Organic energy worldwide

Company Portrait

Since its foundation in 2001, the **WELTEC** group of companies from Vechta in Lower Saxony has developed into one of the world's leading specialists for the construction and operation of biogas and biomethane plants. The Group covers the entire biogas value chain with the design, planning, and construction of energy plants, permanent and temporary plant operation, 24/7 service, and sustainable utilization concepts for output streams.

One of **WELTEC BIOPOWER's** strengths is the construction of individual, technically sophisticated solutions up to a plant size of ten megawatts. A central element here is the high proportion of components developed in-house. Stainless steel technologies also ensure flexible substrate use, fast assembly with low effort, and a consistently high-quality standard regardless of location. After commissioning, **WELTEC's** mechanical and biological service significantly ensures economic efficiency.

The company has just as much experience in the field of biogas production and utilization. At ten of its sites and five sites operated for a fund, the plants produce around 165 million standard cubic meters of biogas annually. Some of this is processed into biomethane and made available to energy suppliers and filling station operators throughout Germany via the public gas network. Furthermore, at 16 locations, municipalities and companies, such as those in the gardening, housing, and healthcare sectors, are supplied with decentralized heat as part of **WELTEC's** energy contracting.

Proximity to customers and investors is an important concern for the biogas specialist, which is why the Group is represented worldwide with its sales and service network. Customers include companies from the waste and food industries, agriculture, and the wastewater sector. The **WELTEC** Group and its 164 employees have implemented over 350 energy plants in more than 25 countries on five continents. The biogas specialist thus ensures annual savings of around 600,000 tons of CO_{2eq}.

If you publish the press release please forward a copy to us:

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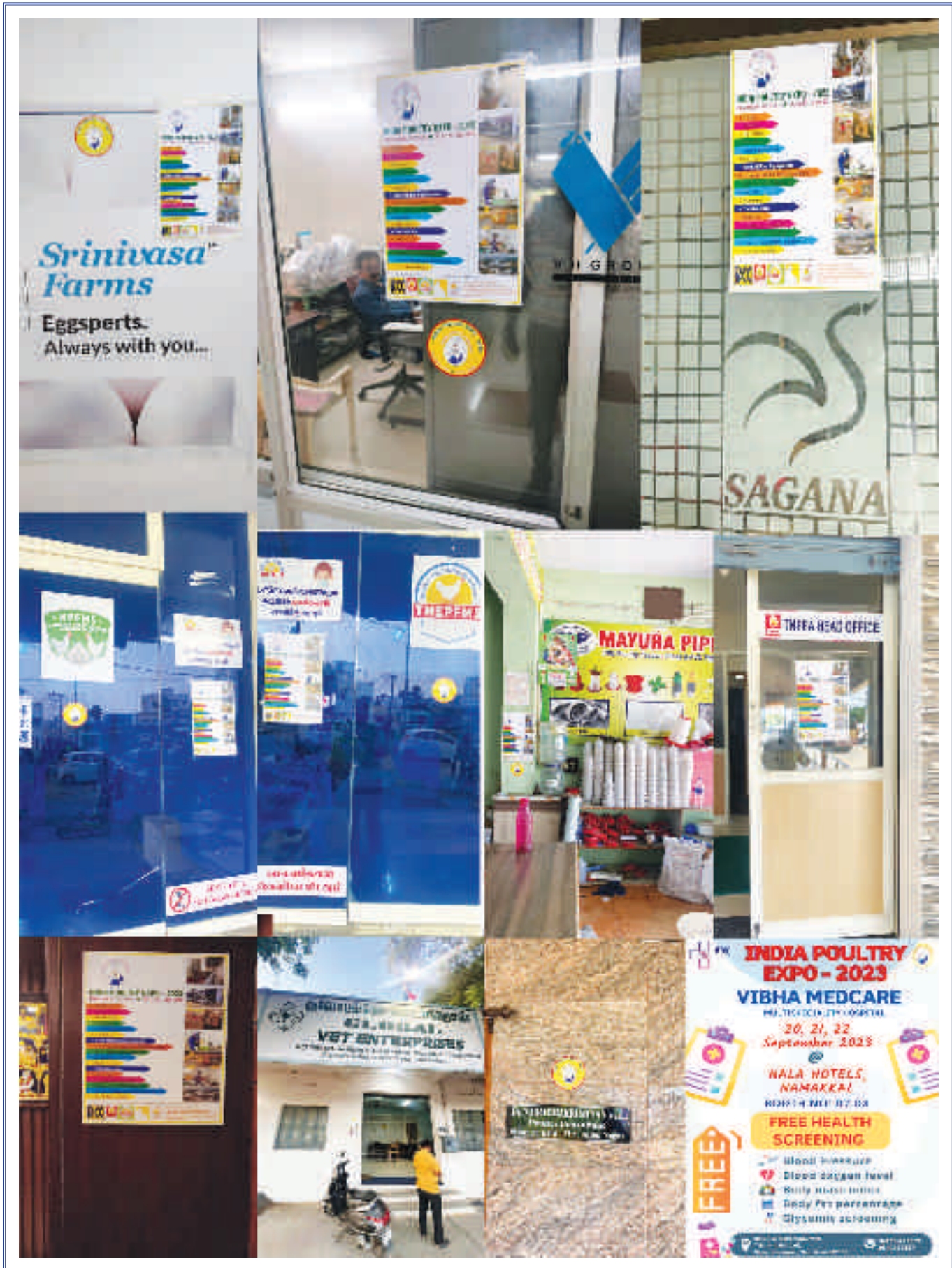


www.youtube.com/user/WELTECBIOPOWER

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Presentation

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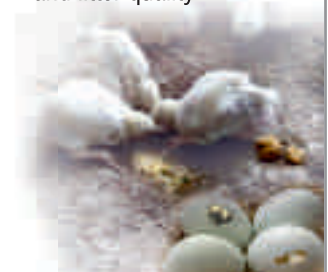
Better consistency of faeces, reduced NH3 conc. in animal houses, better animal welfare and litter quality

Feed inclusion rate

500 g per ton of feed or as advised by the poultry consultant

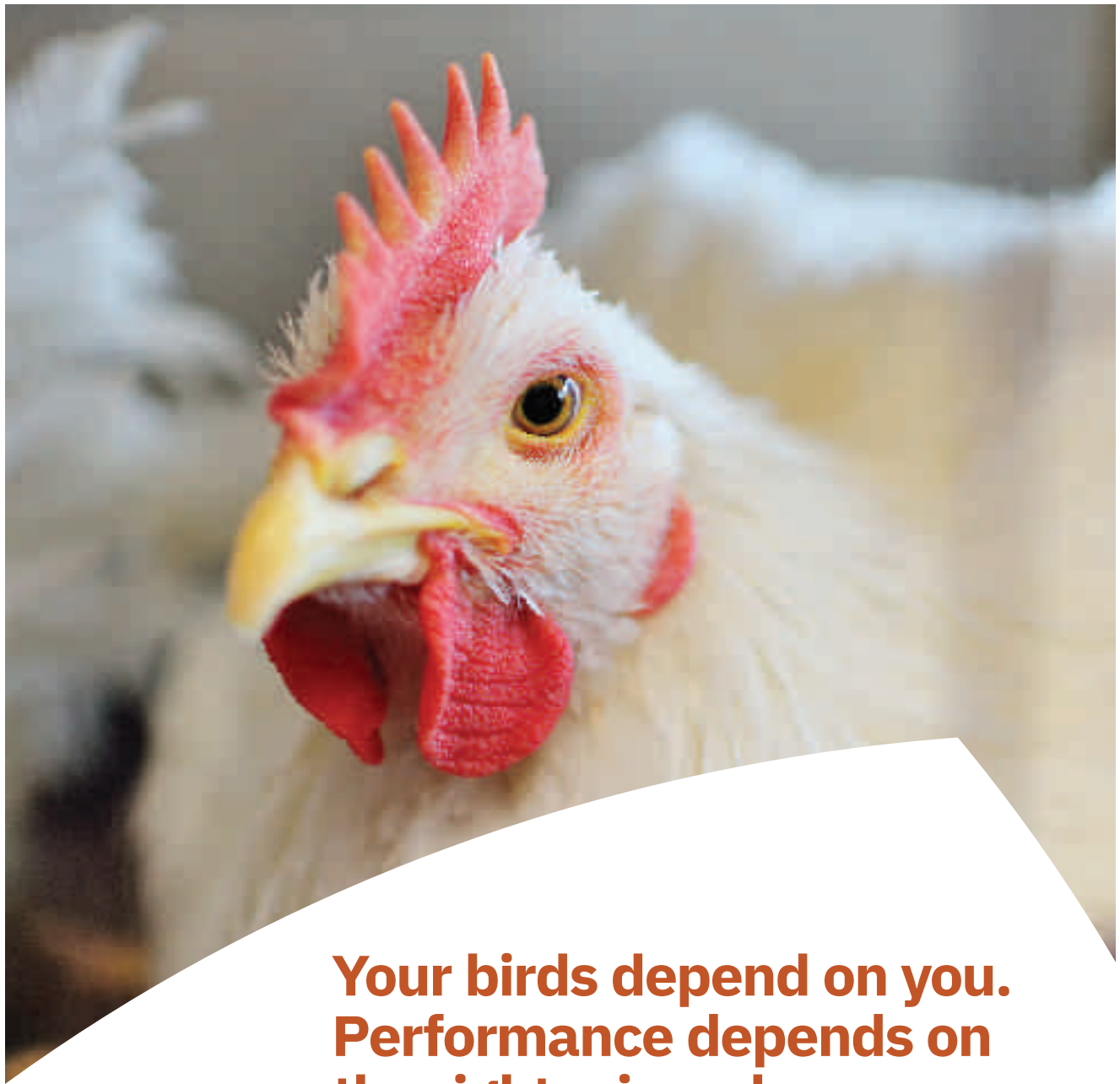
Presentation

25 kg



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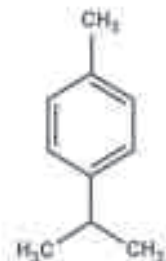
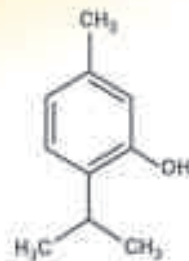
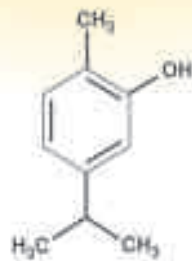


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POULTRY FEED ADDITIVE



Rainy season is favourable for Coccidiosis. Coccidiosis is usually an acute invasion and destruction of intestinal mucosa by protozoa of the genera Eimeria. Clinical signs include diarrhoea, rise in temperature, inappetence, weight loss, emaciation, and in extreme cases, death. However, many infections are subclinical. Coccidiosis is an economically important disease of poultry.

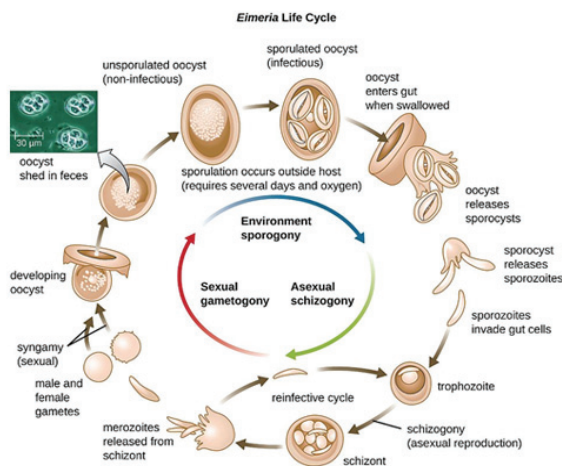


establishment of a series of biosecurity measures that allow assessing the possible challenges and their impact on the production system. Once established, all factors determining disease can be better recognized and corrected. In general, the recommended approach is to perform a risk assessment and establish the Hazard analysis and critical control point (HACCP) principles on the poultry farm, determining the points where potential hazards could occur and biosecurity measures have to be implemented. Biosecurity involves measures at the level of environmental control and management, including elaboration of vaccination and medication programs and also application of effective cleansers, sanitizer, and disinfectants. These biosecurity measures are essential to control the diseases and reduce their economic and public health significance.

Coccidiosis is a parasitic disease of the intestinal tract of animals caused by coccidian protozoa. The disease spreads from one animal to another by contact with infected fa

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se



Prevention and control:

Prevention and control of disease require a careful evaluation of the entire farm and

Everybody is aware that coccidiosis is self-controlling disease. However, every farmer suffers some or major economic losses due to coccidiosis. As we know Prevention is better than treatment.

Now a days Monensin – 8 % + Nicarbazin + 8% is regular control measure used by most of the farmers. However, if those novel solution fortified with Vit K3 and Curcumin extract as feed additive could have tremendous impact on control of coccidiosis.

After thorough research by GLOCREST team – the novel combo of Monensin : 8 % + Nicarbazin: 8%, Vit K3 and Curcumin has been developed a satisfying solution to address this burning issue and launched a product called coccicare. In Coccicare, Vit K3 is added. It prevents internal bleeding in intestine which occurs due to coccidiosis. Monensin along with Nicarbazin acts synergistically.

Explanation for the mechanism of action is that the product is able to interrupt host cell invasion by sporozoites. The outer membrane of the sporozoite contains lipid rafts and a protein, flotillin-1, was identified in sporozoites of *E. tenella* at the apex of the cell, a region that mediates cell invasion. Monensin was found to disrupt the localization of flotillin-1 within raft structures, resulting in the loss of ability to invade host cells.

Ionophores have generally been found to be safe in target animals receiving an approved dosage.

coccicare @Importance of Curcumin extract
 - One of the natural compounds is curcumin, the extract from herbal plant *Curcuma longa*, known for its antioxidant and antimicrobial properties which may be effective in reducing coccidia infection in poultry.

The effects of different doses of curcumin compound on growth performance, antioxidant status, and gut health of broiler chickens challenged with *Eimeria* species. “Curcumin addition in diet of laying hens under cold stress has antioxidant and antimicrobial effects and improves bird health and egg quality”.

Anticoccidial program	Jan- March	Apr-Jun	Jul-Sept	Oct-Dec
Pre-Starter & Starter	Diclazuril	Clopidol	Robenidin	Dinitolamide
Finisher	Salinomycin	Lasalocid + Vit. K3 + Curcumin extract CocciCare-L	Monensin + Nicarbazin+ Vit. K3 + Curcumin extract CocciCare	Maduramycin + Nicarbazin +Vit. K3 + Curcumin extract CocciCare-M

We recommend to use **CocciCare** for prevention of Coccidiosis in your flocks and have peace of mind to reduce your economical losses due to coccidiosis.

For Details Please Contact :
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Customer Care No – 022-46007565.

Emergence of Chicken Astrovirus and Avian Nephritis Virus associated with Gout in chicken

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Gout is a metabolic disorder resulting in hyperuricemia and deposition of uric acid or urates in tissues. In gout, kidney function lowers to such level that results in uric acid accumulation in the blood and body parts. It occurs in two distinct forms namely, visceral and articular gout. In both the forms, deposits consist of chalky white materials called the tophi. Visceral gout is considered to be acute form and is more insidious and difficult to detect in early stages or in live birds. Clinical signs exhibited by the affected birds are not diagnostic, birds show sudden or gradual mortality. Gout is multifactorial in origin which may results due to infectious agents, nutritional cause, toxins, poor management or possibly a combination of factors. The infectious causes include nephropathogenic infectious bronchitis virus (IBV), chicken astrovirus (CAstV) and avian nephritis virus (ANV).

Avian Astrovirus

Astroviridae family is composed of two genera, Mamastrovirus and Avastrovirus that infect mammalian and avian species, respectively. Astrovirus causes gastroenteritis which is usually mild in most species; however, more severe diseases have been reported in poultry such as enteritis, hepatitis and nephritis (Matsui and Greenberge, 2001).

Avian astrovirus infection cause severe and devastating losses to Indian poultry industry. Astrovirus infections in poultry predominantly affect young birds; however, the disease may occur in all age groups, which leads to increased susceptibility for other diseases. Astroviruses have genome of 6.8–7.9 kb are small, nonenveloped RNA viruses having 28 to 30 nm in diameter. Astroviruses are

single stranded, positive sense RNA, genome containing three open reading frames which encodes: ORF1a (non-structural protein), ORF1b (RNA-dependent RNA polymerase), and ORF2 (capsid protein) (Willcocks et al., 1994). To date, two different astrovirus species have been recognized in chickens i.e. Avian Nephritis virus (ANV) and chicken astrovirus (CAstV).

Pathogenicity of the Avian Astrovirus: CAstVs usually lead to three diseases: (i) Runting Stunting syndrome (RSS) and uneven flock performance, originally characterized by enteritis and poor weight gain in young broiler flocks; (ii) Kidney disease with visceral gout causing high mortality in young broilers (up to 40%), (ii) “White Chicks” hatchery disease or white chick syndrome (WCS) characterized by transient increase in mid to late embryo deaths and a reduction in hatchability (Cortez et al., 2017). Besides diarrhoea, growth retardation, kidney and intestinal lesions, ANVs infection also causes gout, resulting in increased mortality (Bulbule et al., 2013). Young chickens infected by CAstV or ANV can both presented stunted growth, enteritis and kidney lesions (Arias and DuBois, 2017)

Symptoms including visceral gout after CAstV infection was also reported worldwide (Smyth et al., 2017, Panigrahi et al., 2019). Furthermore, CAstV-affected chicks showed distended ureters with uricacid deposition, and visceral and articular gout (Bulbule et al., 2013). In 2011 and 2012, 40% mortality in broilers with visceral and articular gout was reported from India (Bulbule et al., 2013) and pathogen was identified as CAstV Biii (Panigrahi et al., 2019).

ANV was also detected in broiler chicken flocks with gout symptoms in India, while 80 gout specimens with a percentage of 38.75% were found positive either for CAstV or ANV, whereas 27.5% or 8.75% were positive for CAstV or ANV alone, respectively (Panigrahi et al., 2019)

Pathophysiology of gout

Gout occurs due to decrease in kidney function to the point where uric acid (a nitrogenous waste) accumulates in the blood and body fluids. The damaged kidneys appear atrophied or missing portions of kidney lobes with whitish gritty material in kidneys and enlarged ureters. Compensatory enlargement of remaining part of normal kidney can be observed in an attempt to maintain adequate renal function (Banday et al., 2009). Birds are uricotelic, the waste product of protein metabolism is mainly in the form of uric acid. This is because they lack the enzyme uricase, which converts uric acid into allantoin. Moreover uric acid is water insoluble. Therefore, any injury or damage to bird's kidney, from whatever cause, interferes with elimination of uric acid, which then accumulates in the blood (hyperuricaemia) and leads to visceral gout. Sometimes precipitated monosodium urate crystals in turn, triggers a chain of events that end in joint injury. Once crystals are deposited into joint, they can be released into the joint space and initiate an inflammatory cascade causing acute gouty arthritis. The released urate crystals are chemotactic and also activate complement which results in generation of C3a and C5a which induce accumulation of neutrophils and macrophages in the joints.

Postmortem Lesions

Grossly, dry platery patches of white chalky urate deposits are observed on the serosal surfaces of pericardium, air sacs, peritoneum, liver, kidneys and ureters. Congestion of viscera might be due to

emaciation and dehydration of birds leading to hemoconcentration. Nephropathy observed consistently is characterized by unilateral to bilateral enlargement of ureter giving cord-like appearance to ureters. The ureters were markedly enlarged due to blockages. Liver is enlarged, friable with white chalky urate deposition on the surface of the capsule. In the heart, the entire pericardium is covered with urate deposits on serosal surface i.e. uric acid pericarditis. Pericardium is firmly adhered to heart. Lungs showed deposition of urates. In the articular form white chalky nodules known as tophi found in tissues (Lakkawar et al., 2018).

Diagnosis

Electron microscopy is one of the methods for diagnosis of the Avian Astroviruses in suspected sample showing star like morphology (Madeley and Cosgrove, 1975). This method is of limited importance in some types of astrovirus including ANV and is not useful for the high sample throughput and is less sensitive. Virus isolation in cell culture presents difficulties as astroviruses grow poorly in enteric samples (Smyth et al., 2009). But the Indian Chicken astroviruses can be isolated using the allantoic sac route in embryonated chicken eggs from SPF and also in chicken embryo kidney cells and Chicken embryo fibroblast cells (Bulbule et al., 2013). It is recommended that kidney samples from the gout affected chicks to be collected in 50% GPBS for the detection and isolation of infectious agent. Degenerated RT-PCR primers based on the avian astrovirus RNA polymerase gene can be used to amplify ANVs and CAstVs (Tang et al., 2005). Reverse Transcriptase polymerase chain reaction (RT-PCR) or quantitative real time PCR (qRT-PCR) are used for the initial screening and for confirmation of virus isolates. CAstV should be included in the differential diagnosis of gout or nephritis problems in addition to

ANV and IBV (Bulbule et al., 2013). Molecular characterization of avian astroviruses can be done by nucleotide sequencing of the ORF1a and ORF1b regions (Bulbule et al., 2013). The complete genome sequence of Indian CAstV will be helpful for further molecular genotyping.

Current managemental practices

Gout in field cases is due to multiple etiologies and identifying a specific cause is often difficult and need the laboratory investigations. Some concerns are important for stressing out the possible cause of the gout. IBV vaccination programme is to be reviewed and feed for mycotoxins and protein concentrations is also to be analysed. Ample quantities of fresh water are to be provided to prevent the dehydration. The electrolytes and anti-gout preparation are to be used to reduce gout mortality. Currently there is no vaccine available for the CAstV infection. The vaccination of CAstV in the breeder certainly provides the protection to hatched chicks in their early life.

Prevention and Control

In the Indian context, which has suffered heavy economic losses because of gout caused by CAstV in commercial broilers, vaccination in breeders seems to be appropriate approach to prevent the gout in young commercial broiler chicks. There are currently no efficient vaccine or chemotherapeutics for the control and/or prevention of astrovirus infections. Hence, strict containment is the only known method of preventing and controlling infections with any of the known astroviruses. Infected flocks, especially those that exhibit severe loss in viability and production, need to be treated with the utmost concern for biosecurity; complete sanitation of all materials and restricted access to facilities by personnel is required to contain the outbreak to the affected farm. To eliminate astrovirus infection, contaminated farms should be thoroughly disinfected and

a minimum of 12 to 14 days down time is required. All the litter and manure should be removed and disposed off. The floors, walls, fans, feeders watering systems and all equipment should be adequately scrubbed and disinfected using compounds and procedures proven useful for eliminating highly stable small round viruses. Avian astroviruses are highly resistant to inactivation by disinfectants. A study by Schultz-Cherry et al., (2001) found that only formaldehyde, beta-propiolactone or peroxymonosulphate based products completely inactivates avian astrovirus. It should be recognized that chicks especially infected with CAstV are extremely susceptible to dehydration, fresh water and electrolytes should be made available to the chicks whenever possible.

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Saife Vetmed: From Humble Beginnings to Pioneering Excellence in Animal Care



Saife Vetmed, India, and Arm & Hammer, USA, continued their esteemed tradition of fostering a dynamic platform for industry experts, academics, and veterinarians by hosting the second annual technical symposium in August 2023. The event took place in Hilton, Bangalore from the 9th to the 10th of August 2023, followed by a grand culmination in Radisson Blu, Delhi on the 11th and 12th of August. This symposium not only brought together key players from the poultry industry, including prominent names like Venkys, Suguna, IB group, Baramati agro, Premium Chicks, CPF, Godrej, Sreenivasan farms, Skylark, Noveltech, Nanda feeds, Shalimar pellet feeds, Phoenix, Sakku groups, MPWPCL, Poultry Federation (PFI) of India but also attracted attendees from 15 countries, including Vietnam, Malaysia, Thailand, Algeria, Tunisia, Morocco, Turkey, UAE, Nepal, and Bangladesh.

The renowned speakers and experts Dr. Peter R. Ferket, a Williams Neal Reynold's Distinguished Professor of Nutrition and Biotechnology at North Carolina State University, and Dr. Richard M. Fulton, a seasoned veterinary pathologist with over 38 years of experience in poultry pathology and medicine besides Dieter Huntenburg, CEO of Huntenburg Germany who served as a surprise package for the event. While Dr. Peter Ferket rightly absorbed the atmosphere and radiated the right energy required during the challenging market conditions and served the right recipe in the form of topics selected as wide as Maintaining Performance and Profits in Feed during Current Challenges, Calcium Nutrition



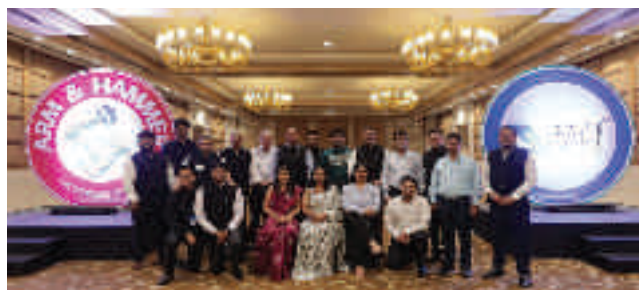
in Broilers, Breeders, and Layers, & Optimizing Shell Quality in Cage Systems.

Dieter brought an exciting take on biosecurity with utmost emphasis on cleaning with the help of the modern equipment, the suitable information, right rationale, and the correct approach.

The event's atmosphere was electrifying, with one poignant moment being a standing ovation accorded to Mr. Dieter Huntenburg by the appreciative audience.

Meanwhile, Arm & Hammer Animal and Food Production, a division of Church & Dwight Co. Inc., showcased its dedication to animal health, nutrition, and environmental responsibility. Mr. Shitij Chabba, President of the Speciality Product Division at Church & Dwight, elucidated their forward-looking approach.

Saife Vetmed's journey extends beyond its impressive trajectory. It serves as a testament to the value of nurturing innovation and determination, even in challenging circumstances. The company's ascent from humble beginning to industry prominence offers a beacon of inspiration to aspiring entrepreneurs and researchers in the veterinary sector. A symposium attendee aptly summarized Saife Vetmed's impact, stating, "Their presence here marks a pivotal moment in the field. The remarkable rise of a company with modest origins is undeniably inspiring.



NATIONAL EGG CO-ORDINATION COMMITTEE
DAILY/MONTHLY EGG PRICES SUGGESTED BY NECC AND PREVAILING PRICES AT VARIOUS PRODUCTION CENTRES (PC) AND CONSUMPTION CENTRE (CC)
AUGUST-2023

Name Of Zone / Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average	
NECC SUGGESTED EGG PRICES																																	
Ahmedabad	445	445	445	445	445	445	445	445	445	455	465	475	475	475	475	480	480	480	480	480	480	485	490	495	495	495	495	495	495	495	495	500	472.35
Ajmer	378	395	395	397	397	397	397	405	430	443	443	445	445	448	455	455	455	430	435	-	445	456	460	463	465	465	-	470	-	475	475	436.39	
Banwala	365	378	384	386	386	386	386	398	421	430	433	435	435	438	448	452	452	429	429	429	437	450	453	458	461	461	465	468	470	472	472	431.13	
Bengaluru (CC)	465	455	455	465	475	480	480	480	480	480	490	500	510	515	515	515	515	500	475	465	465	475	480	480	480	480	480	460	460	465	465	481.45	
Brahmapur (OD)	445	440	442	453	462	462	462	462	462	465	470	475	475	480	480	480	480	480	465	465	465	467	477	487	497	497	497	497	497	497	497	473.06	
Chennai (CC)	480	480	480	480	480	490	490	490	490	490	500	510	520	530	530	530	530	530	530	520	510	510	510	510	510	510	510	500	490	490	490	503.23	
Chittoor	473	473	473	473	473	483	483	483	483	483	493	503	513	523	523	523	523	523	523	523	513	503	503	503	503	503	503	493	483	483	483	496.23	
Delhi (CC)	381	385	398	404	404	404	404	418	441	450	450	450	450	452	458	470	472	472	445	447	447	456	470	472	475	481	481	484	488	490	490	446.55	
E.Godavari	415	415	420	430	440	440	440	440	440	440	440	440	440	440	440	440	460	460	445	445	445	445	455	465	475	475	475	475	475	475	475	451.45	
Hospet	425	415	415	425	435	440	440	440	440	440	440	440	440	440	440	440	475	475	475	460	435	425	425	435	440	440	440	420	420	425	425	441.45	
Hyderabad	400	400	405	410	415	420	410	410	410	419	429	435	440	440	440	440	430	420	410	410	410	415	425	435	435	435	435	-	440	-	450	450	424.24
Jabalpur	400	400	415	430	435	435	435	435	435	443	443	450	455	458	465	465	465	-	440	425	425	432	440	445	450	450	450	450	450	450	450	440	440
Kolkata (WB)	475	475	495	500	490	480	480	480	480	490	500	520	520	520	525	525	510	500	495	495	495	520	530	545	545	550	550	550	550	550	550	550	514.84
Ludhiana	370	373	384	390	390	390	390	390	407	432	433	434	434	434	437	452	452	437	433	433	433	444	455	455	460	460	460	460	468	470	471	472	431.03
Mumbai (CC)	480	460	460	465	470	475	480	480	470	475	480	490	500	505	510	510	510	500	490	480	480	485	490	500	500	500	500	500	500	500	500	505	489.84
Mysuru	465	457	457	470	480	485	485	485	485	485	485	495	505	515	520	520	520	520	502	477	467	467	477	482	482	482	460	460	465	465	465	484.52	
Namakkal	410	410	410	420	430	435	435	435	435	435	445	455	465	470	470	470	470	470	460	450	440	440	450	460	460	460	450	430	435	435	435	443.39	
Pune	480	465	465	470	475	475	475	475	475	475	475	485	495	501	505	505	505	495	485	475	475	480	485	490	490	490	490	490	490	490	490	485.35	
Rajpur	395	395	395	405	405	405	405	405	410	420	430	442	-	448	-	448	448	438	420	420	425	440	450	455	455	450	450	-	450	-	460	427.46	
Surat	450	450	450	450	450	455	455	455	455	465	475	485	485	485	485	485	490	490	490	490	490	495	500	505	505	505	505	505	505	505	505	505	481.45
Vijayawada	415	415	420	430	440	440	440	440	440	440	440	440	440	440	440	460	460	460	445	445	445	445	455	465	475	475	475	475	475	475	475	451.45	
Vizag	450	450	450	450	450	450	450	450	450	455	460	470	470	470	470	470	470	470	470	470	470	470	470	470	475	480	480	480	480	480	480	465.81	
W.Godavari	415	415	420	430	440	440	440	440	440	440	440	445	455	455	455	460	460	460	445	445	445	435	445	455	465	475	475	475	475	475	475	451.45	
Warangal	402	402	407	412	417	422	412	402	412	421	431	437	442	442	442	442	442	432	422	412	-	417	427	437	437	437	437	442	447	452	452	427.77	

Prevailing Prices

Allahabad (CC)	419	424	429	438	452	452	452	452	462	476	481	481	481	486	490	495	495	486	476	476	481	486	486	486	486	486	486	486	486	486	495	472.9
Bhopal	385	385	385	410	425	425	430	430	430	440	450	450	-	450	-	460	450	465	455	-	440	445	455	455	455	455	-	460	-	-	475	436.6
Indore (CC)	410	425	425	425	425	425	425	430	455	460	465	470	-	470	-	470	470	450	450	-	455	465	470	470	470	470	-	470	-	-	475	451.8
Kanpur (CC)	395	395	410	410	424	424	424	424	424	443	452	462	462	462	462	462	481	481	471	471	471	471	481	481	481	481	490	490	490	500	459.68	
Luknow (CC)	433	417	417	417	433	433	433	433	433	450	460	473	473	473	473	473	493	493	493	493	493	493	493	493	493	503	500	500	510	517	473.39	
Muzaffarpur (CC)	430	440	445	455	455	445	445	445	445	480	488	495	500	500	511	515	515	515	500	495	500	510	515	520	525	525	528	530	535	535	494.97	
Nagpur	430	410	410	410	415	420	435	450	430	430	450	460	470	-	460	-	460	460	450	-	440	460	470	470	470	470	460	-	455	-	447.4	
Patna	430	440	445	455	455	445	445	445	445	480	488	495	500	500	511	515	515	515	500	495	500	510	515	520	525	525	528	530	535	535	494.97	
Ranchi (CC)	429	429	438	448	448	448	448	452	462	486	495	500	500	500	500	500	500	500	500	495	500	500	510	515	524	524	524	524	524	524	489.68	
Varanasi (CC)	423	433	440	440	440	440	440	440	440	443	450	477	487	487	487	483	500	500	483	483	490	500	500	500	500	500	507	507	510	513	517	480.55

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Sales Depot: Plot No: 11, Road No: 2, Opp: Nimandiran Function Hall, Manatanagar Colony, Nagole, HYDERABAD - 68 (A.P),
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**To meet the mineral
requirements of your bird, use
BOT regularly.**

Broiler Lifting Rates for the month of JULY-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	133	133	133	128	128	118	106	101	90	90	95	97	102	105	105	95	95	90	90	90	92	97	99	101	101	101	91	91	96	106	108
Karimnagar	133	133	133	128	128	118	106	101	90	90	95	97	102	105	105	95	95	90	90	90	92	97	99	101	101	101	91	91	96	106	108
Warangal	133	133	133	128	128	118	106	101	90	90	95	97	102	105	105	95	95	90	90	90	92	97	99	101	101	101	91	91	96	106	108
Mahaboobnagar	13	13	128	128	118	106	101	90	90	95	97	102	105	105	95	95	90	90	90	92	97	99	101	101	101	91	91	96	106	108	
Kurnool	133	133	133	128	128	118	106	101	90	90	95	97	102	105	105	95	95	90	90	90	92	97	99	101	101	101	91	91	96	106	108
Vizag	125	125	125	120	120	110	105	103	98	98	98	100	103	106	106	101	96	96	96	96	96	96	98	100	102	102	97	97	102	107	107
Godavari	133	133	133	128	128	118	113	111	106	106	106	108	111	114	114	109	104	104	104	104	104	104	106	108	110	110	110	105	110	115	117
Vijayawada	133	133	133	128	128	118	113	111	106	106	106	108	111	114	114	109	104	104	104	104	104	104	106	108	110	110	110	105	110	115	117
Guntur	136	136	136	130	130	122	117	111	106	106	106	108	111	114	114	109	104	104	104	104	104	104	103	105	107	107	107	105	110	115	117
Ongole																															
Nammakal	540	530	530	520	500	470	470	470	450	430	435	440	445	450	455	460	465	465	465	465	445	445	420	400	400	400	410	415	420	420	420

Sponsorship:

PFI requests you to be one of the key sponsors at PFI 34 th Annual General Body Meeting. There are Six categories of sponsorships:

S. No	Categories	Sponsorship Amount (Rs.)	Complimentary Registration
1	Super Platinum Sponsor	600000	12
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6	Bronze Sponsor	100000	2

The Sponsor, companies can display their advertisements in form of standees/ banners on the prominent locations inside the conference hall. Table space will also be provided to the sponsors near the hall entrance. The logos of all the sponsors shall be printed on PFI Invitation cards, welcome banners, main backdrop banner and on all PFI promotional banners. All sponsoring companies will be honoured by presenting them mementos during the AGM.

Kindly send the sponsorship confirmation by sending the cheque / draft in the name of Poultry Federation of India. Your support by giving Sponsorships in Poultry Federation of India's 34th AGM shall be highly appreciated.

Registration:

The Online Delegate Registration is open until 31st August 2023. We are however offering an early bird discount until 31 May 2023. This year, the executive committee has approved a resolution wherein the Online Registration will remain closed on and after 01 September under all circumstances. However, there will be on spot registration facility subject to availability of registration. The details of registration fee are as hereunder:

S. No	Registration Categories	Registration	Date
1	Online Registration with Early Bird Discount	Fee (INR) 4000	Valid until 31 May 2023
2	Online Registration	5000	Valid from 01 Jun 23 until 31 August 2023
3	On Spot Registration	6000	Day of Event

The registration fee includes Lunch, High Tea, Cocktail, Networking Dinner and attending Musical Entertainment Program on 27-28 September, 2023. please visit the following link for online registration. <https://www.poultryfederation.org/register-now.aspx>

Bank Account Details:

A/C Name: POULTRY FEDERATION OF INDIA

A/C Number: 67211011 0006234

Bank Name: Bank of India

Branch Address: Rai, Sonipat (Haryana)

NEFT/IFSC Code: BKID0006721

PAN Number: AATP0444K

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Place of work (Vijayawada)

- Accounts Executive (Karnataka)

Place of work (Bangalore)

Send your CV/Resume to higainfeeds@gmail.com

Indian Poultry Review Annual Conclave 2023

Theme : The Role of Livestock in Sustainable Development



The United Nations defines sustainable development as development that meets the needs of the present without compromising the ability of future generations to meet their own needs. Sustainable development calls for concerted efforts towards building an inclusive, sustainable and resilient future for people and the planet.

In a world where environmental concerns and food security challenges have become more pressing than ever, the role of the livestock sector in general and poultry sector in particular has become all the more crucial.

The topic was chosen to highlight the key role that livestock plays in achieving sustainable development.

Speakers at the conclave included:

- Dr. R.S. Sodhi – President, Indian Dairy Association
- Prof. (Dr.) P. K Shukla – Dean, College of Veterinary Sciences and Animal Husbandry, DUVASU, Mathura
- Mr. Tarun Shridhar – Former Secretary, Ministry of Fisheries, Animal Husbandry and Dairying, Government of India
- Dr. Manoj Sharma – Managing Director, Mayank Aquaculture Pvt. Ltd.
- Dr. V.V. Sadamate – Agriculture Extension Specialist & Former Advisor Agriculture, Planning Commission, Government of India
- Dr. Vijay Makhija – President, Indian Federation of Animal Health Comapanises (INFAH)
- Dr. Amrita Ganguly – Executive Director, Risk Advisory, Deloitte India
- Dr. Shirish Nigam – Managing Director- South Asia, EW Nutrition
- Mr. Mani – National Key Accounts Manager, Aviagen India

Moderator - Selvan Kannan, Business Advisor, Value Consultants

As part of the 2030 Agenda for Sustainable Development, FAO is committed to aiding countries in their efforts to achieve zero hunger while combatting climate change through improved livestock system management.

The conclave was an important event that brought together some of India's best speakers under one roof.

The dairy sector is expanding internationally in response to rapidly increasing demand for animal proteins. Long-term production patterns, on the other hand, show that aquaculture and poultry are undeniably winning the battle to mitigate the farmed animal protein market. Despite advances in animal husbandry, it is well acknowledged that animal-based meals produce more greenhouse gases (GHG) than plant-based diets, which are linked to climate change.

The event began with the reception of dignitaries and the lighting of the ceremonial lamp. Prof.P.K. Shukla delivered the introductory address. Prof.Shukla believes that resource efficiency should be prioritised in sustainable dairy production. In his remarks, Amit Saraogi, MD of Anmol Feeds Pvt.Ltd, revealed that he had created the world's first feed e-commerce platform. He also discussed some of the challenges he is encountering in his feed company. Madan Mohan Maity, General Secretary of West Bengal Poultry Federation, stated that West Bengal is currently producing almost equivalent to the state of A.P. in terms of eggs and chicken. The government must set a Minimum Support Price (MSP) for eggs and poultry as Vikash Deo of Bhandari Feeds Pvt.Ltd feels it necessary to protect farmers' harvest profits if the open market price is less than the cost incurred. He also stated that farmers are not well-trained. Naturally, the fundamental principles of sustainable farming are not reachable at the farmers' level. Dr. Dibyendu Dey of Immeureka Health Pvt. Ltd. spoke ATMANIRBHARATA in protein and asked customers to embrace frozen farmed animal meat. Frozen meat is as good as fresh meat if handled in approved manner.

Dr.R.S.Sodhi, President of the Indian Dairy Association delivered a recorded keynote address and joined the session virtually for a live question and answer session. He stated that the cattle industry of our country is still unorganised. However, Dr.Sodhi noted that Indian customers today choose packaged, branded, pocket friendly farmed food more than ever before.

Dr Manoj Sharma, a farmer and aquaculture specialist with over 26 years of experience in shrimp farming, gave a spirited discussion during the event. Apart from having a significant influence in the growth of shrimp farming in Gujarat's coastal districts, he established Zhingalala Restaurants, a concept for domestic shrimp market promotion in India. Dr.V.V.Sadamate, former advisor to the stressed the significance of increased farmer-scientist interaction (FSI) for reaching the goal of sustainable farming. In his speech, Dr.V.Makhija, offered the phrase HEALTHY ANIMALS: HEALTHY INDIA.

Dr.Amrita Ganguly, Executive Director, Risk Advisory, Deloitte, was the final speaker of the pre-lunch session. She emphasised the relevance of circular economy in livestock production since the concept not only helps to reverse the environmental degradation but also promotes material reuse.

First speaker in post lunch session was Dr.S.Nigam. He explained the role of feed additives in sustainable farmed animal production. Aviagen India's National Key Accounts Manager Mr.Mani explained one of the important sustainable factors is genetic makeup of poultry birds.

It was a delight to hear Mr.Tarun Shridhar, former secretary of the Ministry of Fisheries, Animal Husbandry, and Dairying, deliver his final remarks in his baritone voice. Because of his significant experience in policy creation and regulatory framework implementation in the cattle business.

Selvan Kannan, the moderator of entire program was outstanding. He has been in the sector for four decades and is the founder and director of a number of businesses. He provided insightful final remarks.

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Vaccine is produced by *In-Vivo Antigen Expression Technology* & is recommended for active immunization of the breeder flock. Each dose of vaccine contains more than 2.5×10^8 CFU each of Salmonella Gallinarum, Salmonella Enteritidis & Salmonella Typhimurium in inactivated form for greater protection.

Advantages of Ventri's Salmonella Polyvalent Vaccine

- Polyvalent vaccine is having wide antigenic spectrum and contains S. Gallinarum, S. Enteritidis & S. Typhimurium.
- Inactivated vaccine is administered parentally & generates humoral antibodies to provide Material Derived Antibody M D A.
- Very safe to handle.
- Bacterial shading is reduced in the flocks where vaccine is used and increase in egg production (HHP), increase in hatchability, decrease cull chicks is observed.
- Flock should be screened for salmonella infection before vaccination.
- Proven vaccine to reduce salmonella infection in subsequent flocks

Vaccination Programme:

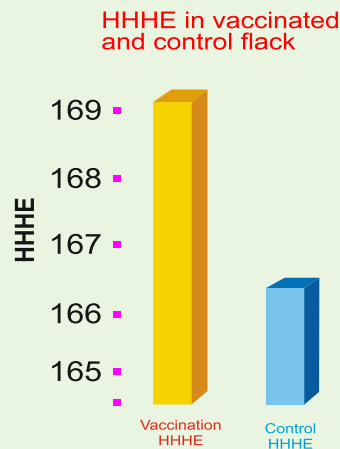
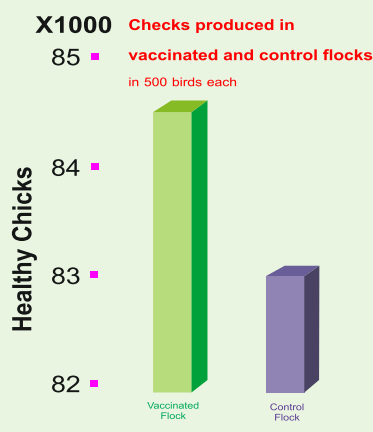
Vaccinate sero - negative flocks, tested by Salmonella quick agglutination plate test applied with a gap of 21 days between two consecutive testing before vaccination of flock. Vaccinate breeder at 16 & 20 week age Revaccinate at midlay. Consult the experts for vaccination.

Storage :

Store at 2-8 °C

Dose :

@ 0.5 ml per bird



Answer for battle against Salmonella in Poultry.



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