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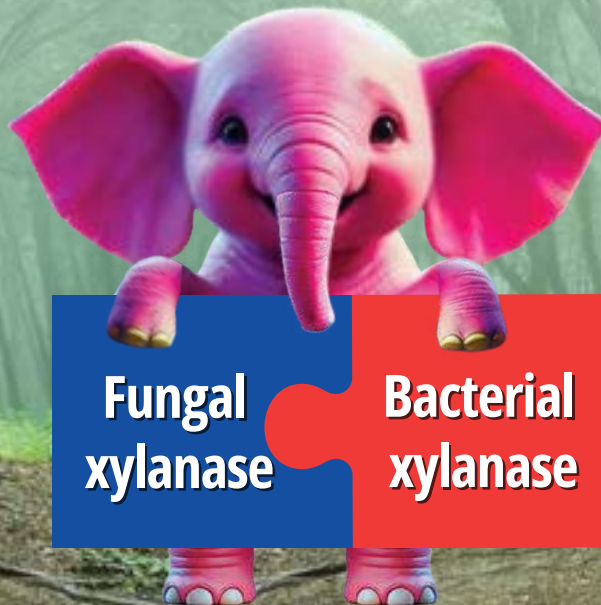
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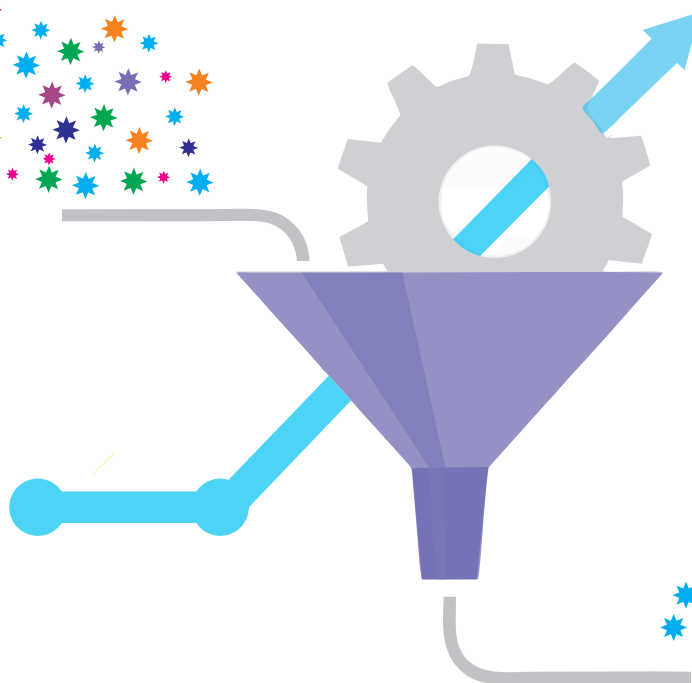
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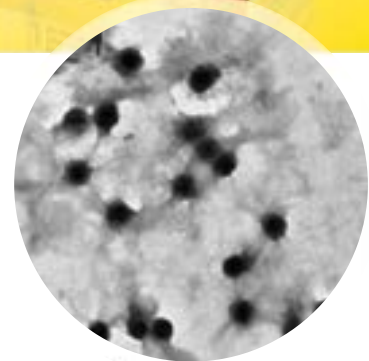
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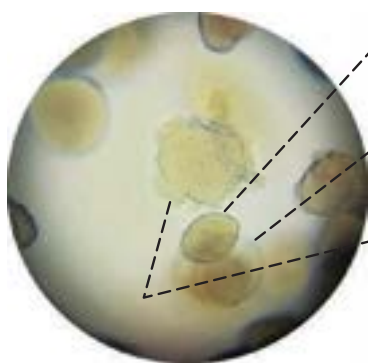
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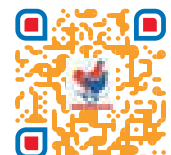
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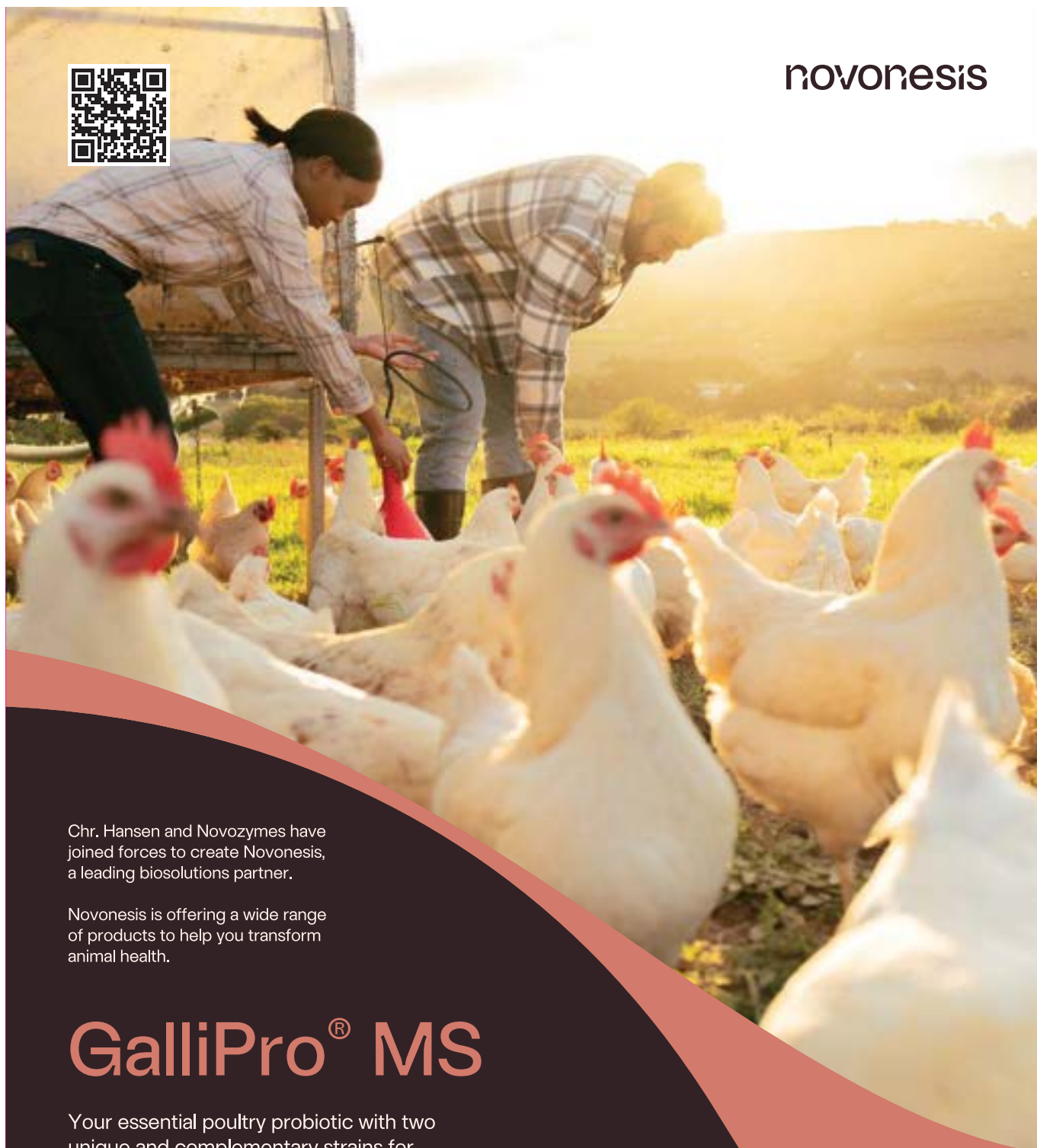
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- Editor



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Let us commit to shape innovative & sustainable future for poultry sector

An increasing number of farmers are moving towards mobile precision feeding solutions such as near infrared technology (NIR). NIR technology has already been identified by feed producers as an accurate and quick solution for feed and raw material analysis, providing cost-effective and easy access to real nutrient values in their purchased raw materials. The technology can be used to scan raw materials or silage and provide detailed information, comparable to traditional lab analysis.



Dear Readers,

Greetings to the readers and advertisers of Poultry Fortune for a Happy, Prosperous and Peaceful New Year 2025. I wish that all of us get organised well personally, in the

profession and in the business in 2025. Let us focus on maintaining good health with regular exercise, balanced diet and 7 to 8 hours night sleep. Check whether you are going financially in a right and safe direction and maintain good, relation with each other. Let us also change our thinking towards an open and positive mindset that we do our bit for the well being of all in the society.

The January 2025 issue of Poultry Fortune is in your hands. In the news section you may find news about...

Bentoli Agri Nutrition India Pvt Ltd unveiled its much-anticipated 2025 calendar, a masterpiece showcasing the creativity and imagination of children from the Bentoli family. The event, held across the company's Chennai and Trichy offices, marked a significant milestone in fostering young talent and celebrating their artistic brilliance. Under the theme 'The World of Animals', the calendar featured 13 stunning drawings submitted by the children of employees. These vibrant creations, selected through a drawing competition, highlighted the unique perspectives and artistic flair of young minds. The unveiling ceremony was led by Dr Arul Victor Suresh, Managing Director, alongside Dr Jayanta Bhattacharya, Director - Techno Commercial and Dr Mayilraj Shanmugam, Director - R&D, who applauded the talent and creativity on display. Dr Arul Victor Suresh stated that the 2025 calendar reflects the boundless imagination of these young artists

and underscores Bentoli's commitment to nurturing creativity and innovation within their extended family.

JK Breeders Pvt Ltd, the franchisees of Lohmann Breeders GmbH, Germany, for Pan India, has targeted to have its presence with its Lohmann LSL Ultra Lite layer breed in all the states in India and capture 15 to 20 per cent layer market share in India with in three years time. Its Managing Director Mr Sumit Kharb and Layer Business Head Dr Surendra K. Jangir in an interview with Poultry Fortune stated that the company is planning to have upto 3 crore LSL Ultra Lite chicks supply annually in the country. Lohmann Breeders GmbH, Germany, has setup its Lohmann Grand Parents breeding farm in Tamil Nadu in India and supplying Lohmann layer parents to JK Breeders since 2020. According to Mr Sumit Kharb, Lohmann LSL Ultra Lite was developed keeping in mind the Indian market and climatic conditions and it gives 482 eggs in 100 weeks age.

Venkateshwara B. V Biocorp conducts technical seminar on Pumipro, "a unique probiotic for commercial broilers". Mr Deepak Khosla, GM-Marketing, Venworld gave insightful advice on the emerging diseases, antibiotics awareness that pushing the Indian poultry into greater economic depression were invaluable. He shared his thoughts on how poultry industry is shifting towards use of probiotics for improving gut health of chickens as well as considering food safety measures. Dr Ivan Rychlik, Dr C. B Pande and Dr Datta Kulkarni discussed the importance of probiotics and how the product helps to enhance profit and diminish the losses in commercial broilers.

Karnataka Poultry Farmers and Breeders Association and Poultry Industry Association of Uzbekistan entered into a Memorandum of Understanding aimed at fostering knowledge sharing and collaboration between the two

Contd on next page



Poultry Fortune

Our Mission

Poultry Fortune will strive to be the reliable source of information to poultry industry in India.

PF will give its opinion and suggest the industry what is needed in the interest of the stakeholders of the industry.

PF will strive to be The Forum to the Stakeholders of the industry for development and self-regulation.

PF will recognize the efforts and contribution of individuals, institutions and organizations for the development of poultry industry in the country through annual Awards presentation.

PF will strive to maintain quality and standards at all times.

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nations' poultry sectors. As part of this partnership, a delegation of five key officials from Uzbekistan visited Bengaluru from December 14 to 18, 2024, to gain first-hand insights into India's advanced poultry farming practices and integrated farming models.

Novus International, Inc. is sharing its analysis of soybean meal quality in the United States and research on copper sources in broilers during the International Poultry Scientific Forum (IPSF) to be held in conjunction with the International Production and Processing Expo (IPPE) on January 27-28, 2025 at the Georgia World Congress Center in Atlanta, Georgia.

Mr Mark Moran, Commercial Director for North America, NOVUS International, said that 'Soybeans are the primary source of protein and amino acids in poultry diets. The quality of soybean meal is extremely important to the industry. NOVUS has been studying soybean meal quality for years with this new analysis looking at the activity of trypsin inhibitors in soybean meal produced in the U.S.' Trypsin inhibitor (TI) is an anti-nutritional factor found in soybean meal that can affect amino acid digestibility, ultimately impacting broiler performance.

Dr Frances Yan, Ph.D., Senior Manager of global poultry research at NOVUS stated that 'We've been using Near-Infrared Spectroscopy (NIR) technology for years to better understand the level of TI activity in soybean meal from around the world. This study looks at samples from the U.S. from 2021-2024 to get a clearer picture of what poultry producers are feeding their broilers. Yan says by understanding the quality of soybean meal, producers and nutritionists can take action to minimize the impact of TI with feed additives. We know broiler producers want to get the most out of their birds. To do that, they need to get the most from the feed, Yan says. Soybean meal analysis is something we offer our customers that makes a difference in achieving precision feeding and improving production efficiency.'

Poultry Federation of India organized its 35th Annual General Meeting at Gurugram, on 27 & 28 December 2024. Mr Ranpal Dhanda, President, PFI said that PFI has been working for the betterment of poultry farmers and poultry sector since 1988. He highlighted the Federation's efforts to raise the concerns of farmers. The biggest issue today is the rising cost of maize and PFI is actively working on this issue. Discussions are ongoing with the ministry on this matter and the Federation has raised this concern with the Agriculture minister as well. They are also in touch with agricultural farmers to increase maize production, with some farmers already working on it. The President stated that the Federation has launched campaigns like "Protein for All" to increase consumption of poultry products and ensure fair prices to poultry farmers.

In the Articles section, **Managing Mold in Animal Feed: Strategies for Risk Reduction and Quality Assurance**, authored by Dr Sushanth Mhatre and Ms Yamini Sripal stated that the Mold contamination in animal feed poses significant risks to livestock health, productivity and operational efficiency leading to economic losses globally. It affects feed quality through spoilage and nutritional degradation, while mycotoxins produced by molds harm animals, causing immune suppression, organ damage and reproductive

issues. Factors like humidity, poor storage and improper handling contribute to mold growth. Mitigation strategies include maintaining proper storage conditions, controlling feed moisture, ensuring cleanliness, optimizing housing environments, and using mold inhibitors and mycotoxin binders. A multifaceted approach is essential to safeguard animal health, enhance feed quality and sustain agricultural productivity.

Another Article titled, **Nextgen Innovations to Support On-Site Challenges**, authored by Dr Shiva Kumar discussed that the development of new technologies in the area of raw material feed quality evaluation allows for monitoring at farm level to streamline this process and make it cost-efficient. Therefore, an increasing number of farmers are moving towards mobile precision feeding solutions, such as near infrared technology (NIR). NIR technology has already been identified by feed producers as an accurate and quick solution for feed and raw material analysis, providing cost-effective and easy access to real nutrient values in their purchased raw materials. The technology can be used to scan raw materials or silage and provide detailed information, comparable to traditional lab analysis. Although this NIR technique has been used on a large scale at feed producers and large size integrators, until recently the application has not been available for professional farmers. The technology is now accessible for farms of every size with the introduction of the NutriOpt On-site Adviser from Trouw Nutrition. It can analyse feed samples in minutes and, through its powerful nutritional database, provide practical solutions for farmers to optimise their ration and their business.

Another Article titled **Dietary Lysozyme supplementation improves performance and egg production in Poultry**, authored by Mr Dwipen Bhagawati and Mr Bishwapriya Mukherjee, stated that the objective of the feeding trial was to evaluate the effect of Lysozyme on growth performance in broilers and egg production in layers. Layers: 6800 layer birds at the age of 21 weeks old birds were randomly divided into 2 groups, control & treatment -3400 each. Trial was conducted till 41 weeks. FEED/BIRD WAS 112g and 113g respectively.

Fresh water and feed were offered ad libitum during the trial period. Birds were reared under standard conditions of managements. Lysozyme works by breaking down bacterial cell walls, thereby inhibiting their growth and reducing the burden of pathogens in the digestive tract and beyond. (2). Use of lysozyme not only enhances disease resistance but also contributes to sustainable poultry farming practices.

Readers are invited to send their views and comments on the news, special feature and articles published in the magazine which would be published under "Readers Column". Time to time, we shall try to update you on various aspects of Poultry sector. Keep reading the magazine Poultry Fortune regularly and update YOURSELF. Wish you all fruitful results in your efforts.

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Bentoli Agri Nutrition Unveils 2025 Calendar Featuring Vibrant Artwork by Young Talents

On November 23 2024, Bentoli Agri Nutrition India Pvt Ltd. proudly unveiled its much-anticipated 2025 calendar, a masterpiece showcasing the creativity and imagination of children from the Bentoli family. The event, held across the company's Chennai and Trichy offices, marked a significant milestone in fostering young talent and celebrating their artistic brilliance.

A Canvas of Creativity: The 2025 Calendar

Under the theme "The World of Animals," the calendar featured 13 stunning drawings submitted by the children of employees. These vibrant creations, selected through a drawing competition, highlighted the unique perspectives and artistic flair of young minds.

The unveiling ceremony was led by Dr Arul Victor Suresh, Managing Director, alongside Dr Jayanta Bhattacharya, Director - Techno Commercial and Dr Mayilraj Shanmugam, Director - R&D, who applauded the talent and creativity on display. "The 2025 calendar reflects the boundless imagination of these young artists and underscores Bentoli's commitment to nurturing creativity and innovation within our extended family," said Dr Arul Victor Suresh.

All participating children, along with the winners of the competition, were honored with certificates,



Dr Arul Victor Suresh, Dr Jayantha Bhattacharya and Dr Mayilraj Shanmugam along with children during talent test

gifts, and chocolates in recognition of their efforts. Their contributions transformed the calendar into a vibrant celebration of youthful artistry and enthusiasm.

A Celebration of Talent and Togetherness

Complementing the calendar unveiling, Bentoli also hosted a range of engaging activities for the children of employees. The day began with a warm welcome and personal interactions with senior leadership, followed by an inspiring session where the kids shared their dreams and aspirations with Dr Jayanta Bhattacharya.

The children also had the opportunity to visit Bentoli's poultry farm, where they learned about poultry farming, sustainable practices

and animal care. This hands-on experience left the young visitors fascinated and enriched their understanding of agriculture and animal welfare. "Our aim is to inspire the next generation to appreciate sustainable farming and the importance of animal welfare," remarked Mr Ranjith, Poultry Farm Manager.

Gratitude and Looking Ahead

The event concluded with a cake-cutting ceremony, games, a delightful lunch and creating lasting memories for all attendees. Bentoli management expressed heartfelt thanks to the organizing team, employees and their families for their enthusiastic participation and support.



The 2025 calendar unveiling and associated activities showcased Bentoli's unwavering dedication to fostering creativity, celebrating employee contributions and promoting a sense of community. The company looks forward to continuing this tradition and furthering its mission to inspire and empower young minds.

About Bentoli: Bentoli is dedicated to providing our customers with the highest quality products, services, and consultative solutions that will tangibly improve their operational and financial performance. The company manufactures preservatives, processing, and nutritional additives for aqua and animal feeds. It employs a comprehensive and methodical approach to develop optimal solutions for feed manufacturers and farmers. Working closely with feed manufacturers and livestock operators to thoroughly understand their specific needs, the company uses a consultative, collaborative approach to identify problems, develop solutions, and continuously monitor performance to achieve desired results for our customers. It has active R&D involving labs and animal rearing facilities. Bentoli has manufacturing facilities in North America and Asia and serves customers through an extensive network of sales offices and valued distributor partners throughout the globe. The company's innovative approach and commitment to quality have earned it a reputation as a trusted partner in the animal nutrition industry.

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KPFBA and Uzbek Poultry Association Forge Strategic Partnership

Bengaluru, India (December 18, 2024) – The Karnataka Poultry Farmers and Breeders Association (KPFBA) and the Poultry Industry Association of Uzbekistan have entered into a Memorandum of Understanding (MoU) aimed at fostering knowledge sharing and collaboration between the two nations' poultry sectors. As part of this partnership, a delegation of five key officials from Uzbekistan visited Bengaluru from December 14 to 18, 2024, to gain first-hand insights into India's advanced poultry farming practices and integrated farming models.

Key Highlights of the Visit:

- **Field Visits:** The delegation toured integrated poultry farms operated by KPFBA members, observing best practices in biosecurity, feed management, and bird health.

- **Knowledge Exchange:** Experts from both associations engaged in fruitful discussions on various aspects of poultry production, including breeding, nutrition, and disease control.

- **Strengthening Bilateral Ties:** The MoU signifies a commitment to long-term collaboration, facilitating future technical expertise exchanges and business delegations.

Quotes:

- “MOU between KPFBA & Poultry Industry

Association of Uzbekistan opens doors for exchange of delegations, ideas, information & business opportunities between members” from KPFBA President, Mr. Naveen Pasuparthi.

- “This collaboration with India offers a unique opportunity to learn and implement the best poultry integration practices, benefiting Uzbekistan and its people. We are excited to share the knowledge and growth opportunities that arise from this partnership.” from Mr Akhmedov Ulugbek Shukhratovich, First Deputy Chairman of the Poultry Industry Association of Uzbekistan

This strategic partnership between KPFBA and the Poultry Industry Association of Uzbekistan marks a significant milestone in promoting international cooperation and driving sustainable growth in the global poultry industry.

About KPFBA:

The Karnataka Poultry Farmers and Breeders Association (KPFBA) is a leading industry association dedicated to developing the poultry sector in Karnataka, India. With a strong focus on promoting best practices, advocating for farmers' interests, and fostering innovation, KPFBA is committed to ensuring a sustainable and prosperous future for the poultry sector.



Akhmedov Ulugbek Shukhratovich, the first deputy chairman, chairman of the Poultry Industry Association of Uzbekistan and Naveen Pasuparthi, President, KPFBA, signed the MOU.



Left to Right: Sultonov Bekhzod Mukhiddinovich, Deputy Director of "Kushkupir Poultry" LLC; Boymuratov Nurmuhammad Yusupovich, Head of the Department of Poultry Project Management Office of "Microcreditbank" JSCB; Soliyev Akhliyor, Head of the Foreign Economic Activities Department at the Poultry Industry Association of Uzbekistan; Sanoyev Golib Bakhtiyorovich, Director of Regional and Specialized Project Management Department of "Microcreditbank" JSCB; Akhmedov Ulugbek Shukhratovich, First Deputy Chairman of the Poultry Industry Association of Mr Naveen Pasuparthi, President KPFBA, M.S.R Prasad General Secretary, KPFBA; Raja Sekhar, Treasurer KPFBA, Rajesh Reddy, Chairman of the Chicken Promotion and PR Committee KPFBA and D. Harshakumar Shetty, Head of the Technical Committee, KPFBA.



Mr Akhmedov Ulugbek Shukhratovich, The first deputy chairman, chairman of the Poultry Industry Association of Uzbekistan and Mr Naveen Pasuparthi, President, KPFBA signed the MOU



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PFI holds 35th AGM

Gurugram: The Poultry Federation of India (PFI) inaugurated its 35th Annual General Meeting (AGM) with a grand session at Hotel The Leela Ambience, Gurugram, on 27 - 28 December 2024. The event was attended by over 800 delegates, including poultry farmers, breeders, feed manufacturers, equipment manufacturers, industry leaders, government officials, policymakers and experts—all committed to shaping a sustainable and innovative future for the poultry sector. The welcome address was delivered by Mr Ranpal Dhanda, President, Poultry Federation of India. First and foremost, he thanked all the attendees for joining the 35th AGM of PFI. He mentioned that the Poultry Federation of India has been working for the betterment of poultry farmer and poultry sector since 1988. He highlighted the Federation's continuous efforts to raise the concerns of farmers before both the government and the industry. The biggest issue today is the rising cost of maize and the Poultry Federation of India is actively working on this issue. Discussions are ongoing with the ministry on this matter and the Federation has raised this concern with the Agriculture Minister as well. They are also in touch with agricultural farmers to increase maize production, with some farmers already working on it. Mr Ranpal Dhanda stated that the Federation has launched campaigns like "Protein for All" to increase the consumption of poultry

products and ensure fair prices for poultry farmers. Key updates on the federation's progress were shared, including the



PFI President Ranpal Dhanda and other office bearers of PFI during its 35th AGM at Gurugram, Haryana

Annual Report presented by Mr Ravinder Singh Sandhu, Secretary, Poultry Federation of India and the Presentation of Accounts by Mr Ricky Thaper, Treasurer, PFI. Mr Sanjeev Gupta, Vice President (HQ), expressed gratitude for the continued support toward PFI's shared vision and objectives.

The session also featured the announcement of the election results by Returning Officer, CA S.S. Katyal, followed by the formal introduction of the newly elected leadership of the Poultry Federation of India. The audience warmly welcomed the new team, demonstrating strong support for the federation's shared vision and objectives.

The newly elected leadership team of the Poultry Federation of India is as follows:

- Mr Ranpal Dhanda – President
- Mr Sanjeev Gupta – Vice President (HQ)
- Mr Ravinder Sandhu – Secretary
- Mr Ricky Thaper – Joint Secretary
- Mr Rahul Khatri –

Treasurer Recognition and Technical Sessions After a networking high tea, the event continued with insightful technical presentations by leading

experts, including Mr S.K. Malhotra, Dr Ali Asgar, Dr B.C. Dutta, Dr Rahul Sawarkar, and Dr Sushil Silva, covering topics vital to the advancement of the poultry industry. In recognition of the vital role of the sponsors in supporting PFI's efforts, mementos were presented. Memorable MOU Signing Ceremony Memorable MOU Signing Ceremony: A key moment in the proceedings was the signing of a Memorandum of Understanding (MOU) between PFI and The Energy and Resources Institute (TERI), symbolizing the commitment to sustainable practices and innovation within the poultry industry. Eminent Speakers emphasized the pivotal

role of poultry farming in agriculture, stating, Poultry farming is a backbone of our agricultural economy, contributing significantly to state and national development. It provides livelihoods to more than a million people and remains dedicated to supporting its growth. We are committed to addressing challenges and ensuring that this vital sector continues to thrive. The day concluded with delegates appreciating the arrangements and networking opportunities provided by PFI's AGM. The Poultry Federation of India continued its 35th Annual General Meeting (AGM) on Day 2, December 28, 2024, at The Leela Ambience, Gurugram, Haryana. The day featured a series of insightful technical sessions, engaging presentations, and discussions aimed at driving progress in the poultry industry. The proceedings began with a technical session by Mr S.K. Malhotra, followed by a session by Mr Nemanja Todorovic. Afterwards, Dr Lipi Sairiwal, Deputy Commissioner, Department of Animal Husbandry & Dairying, GOI, delivered an informative presentation related to various initiatives introduced by Government of India which benefited numerous farmers attend-



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A nutrigenomic & transcriptomic evaluation at Department of Poultry Science, University of Georgia Athens, USA, 2018



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Honouring Sponsors on the Occasion

ing the AGM. Further sessions focused on innovations in poultry nutrition and management. Representatives from Poultry Farmers Regulatory Committee, Tamilnado on the topic “Broiler Chicken Promotion Initiatives” followed by Dr Javed Mulani presented on “How to Increase the Share of Processed Chicken Meat,” followed by a presentation by Dr N.K. Mahajan, on “Advancement in Poultry Vaccination & Biosecurity”. A key highlight of the event was the distribution of mementos to the Super Platinum, Platinum, Diamond, Gold, and Silver sponsors, recognizing their vital contributions. The attendees celebrated the sponsors’ significant role in the industry’s ongoing success and the event’s overall impact. Strategies to Grow Egg Demand

The afternoon session focused on boosting egg demand in India, with Mr Suresh Chitturi’s presentation on “Strategies to Grow the Demand of Eggs in India,” which was highly

appreciated by delegates. A panel discussion moderated by Mr Nasir from India Today Kisan Tak followed, addressing trends and strategies for poultry growth. Ministerial Insights:

Mr Ranpal Dhanda, President, PFI, extended a warm welcome to the Hon’ble Minister during the 35th Annual General Meeting of PFI. In his address, Mr Dhanda acknowledged the Hon’ble Minister’s unwavering support and responsiveness, noting that the Hon’ble Minister has always been available for discussions and has attentively considered the concerns of the poultry sector. He outlined a significant challenge currently faced by the industry— rising maize prices, driven by increased demand from the ethanol industry. He emphasized that with the growing requirements of both the poultry and ethanol sectors, the demand for maize will continue to escalate in the future. To address this pressing issue, Mr Dhanda proposed a two-pronged approach:

1. Short-term Measures:
 - o Bringing maize under open procurement policies to ensure fair access for



both the ethanol and poultry industries.

- o Allowing the import of genetically modified (GM) maize to alleviate the immediate supply shortfall.
2. Long-term Strategy:
 - o Implementing measures to enhance domestic maize production by introducing advanced seed varieties and increasing per-hectare yield. He stressed that this approach would ensure a steady maize supply for the poultry industry while improving farmers’ livelihoods.

Additionally, Mr Dhanda urged the Hon’ble Minister to consider establishing cold storage facilities at key locations for storing eggs and chicken during periods of low prices, thereby ensuring price stability and minimizing wastage. He further recommended the formation of a Poultry Development Board with representation from PFI, aimed at facilitating policy-making and fostering sustainable growth of the

poultry sector. Concluding his remarks, Mr Dhanda reiterated the urgency of resolving the maize pricing issue, emphasizing that a timely and effective solution is essential for the sustained development of the poultry industry.

The day’s highlights included the address by the Hon’ble Minister of State for Animal Husbandry, Fisheries, and Dairying, Shri (Prof.) S.P. Singh Baghel. He emphasized the government’s commitment to enhancing the poultry sector through focused policies and initiatives. The Hon’ble Minister acknowledged concerns over maize shortages due to ethanol production and assured collaboration across ministries to balance industry needs. “True progress lifts all hands, honors all roots, and sustains every branch of the tree,” he stated, pledging to seek intervention from the hon’ble Prime Minister if required. He also highlighted the need to promote poultry consumption and educate the public about protein requirements and the misconceptions surrounding eggs and chicken. He further appreciated the efforts made by PFI for promotion of protein intake by Egg and Chicken through various TV Commercials. The day’s milestones



A view of Participants in PFI meeting



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included the launch of PFI's State Committee. At the end the formal proceedings concluded with a vote of thanks by Mr Ricky Thaper, Joint Secretary, PFI, who appreciated the invaluable support of poultry farmers, sponsoring companies, special guests, farmers associations, media and participants.



Ranpal Dhanda, President, Poultry Federation of India



Poultry: Trucks full of chickens stopped on the road in Uttarakhand, PFI approaches Govt



Poultry Federation of India alleges that poultry farmers are being harassed in Uttarakhand. The entire order of the High Court is not being followed. Farmers are being prevented from earning their livelihood. Due to this, PFI has written a letter to the Union Minister and the CM of Uttarakhand in this matter and has demanded to stop the exploitation of poultry farmers. Trucks full of chickens are being stopped on the road. There is a danger of chickens dying due to trucks being stopped under the open sky in this winter season. Poultry Federation of India (PFI) has called it arbitrary action of the administration. It has also alleged non-compliance of the High Court order. This case of stopping chicken trucks is from Uttarakhand. PFI alleges that stopping chicken trucks without fully complying with the High Court order is like kicking the stomach of poultry farmers.

In this regard, PFI has also written a letter to the Union Minister of Dairy and Animal Husbandry, Secretary, CM Uttarakhand. PFI has demanded that the entire order of the High Court should be followed first, only then action should be taken to stop the chicken vehicle. If the vehicle is stopped before that and the chickens die, then the state government will have to pay compensation for it.

Also read- Poultry Egg: Now the hen will give special egg for children in poultry farm, this will be beneficial for health This is the High Court's order for poultry

PFI President Ranpal Dahanda told Kisan Tak that the High Court had ordered that the activities of slaughtering chickens in the open on the roadside and in the streets should be stopped. This spreads dirt. People passing by also face problems. Along with this, the court had also ordered that before stopping all this, small slaughter houses should be built, where the work of slaughtering chickens can

be done. And the people associated with this business should not have to suffer losses. But the Uttarakhand Police-Administration is taking steps contrary to this. Slaughter houses have not been opened before, but action has been started to stop slaughtering of chickens. Due to this, chicken vehicles are being stopped on the road to stop the supply of chickens.

PFI has made these demands including compensation PFI has written a letter to Union Dairy and Animal Husbandry Minister Rajiv Ranjan, Uttarakhand CM Pushkar Singh Dhama and Dairy Secretary Alka Upadhyay and appealed to stop the exploitation of poultry farmers. Along with this, demands related to this have also been raised.

Also read- Poultry Egg: Union Minister said, 'Chicken's egg is like potato', you will be surprised to hear the reason






- Slaughter houses should be built following the High Court order so that poultry farmers can continue their business.
- Until the government prepares the slaughter house, poultry farmers should not be stopped from doing their business.
- Until slaughter houses are built, no policeman, NGO or any organization should be allowed to stop the poultry business.
- Guidelines should be issued on who can stop vehicles loaded with chickens and how to keep the birds in the detained vehicles.
- If chickens die while chicken vehicles are being stopped, then compensation should be given at the rate of Rs 100 per kilogram on the basis of live chicken.
- Guidelines should be issued regarding the layout and design of all meat shops so that the court orders can be followed.



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Ravioza Biotech organizes Seminar at Lucknow

Current poultry industry scenario, challenges, Future opportunities, AMR issue and its scenario in India, Govt. Initiatives around AMR, Alternatives to Antibiotics, Govt initiatives and support to help farmers discussed



Dr Jeetendra Varma

Ravioza Biotech conducted an interactive seminar in Lucknow on 20 December 2024 at Hotel The Centrum, Golf City Lucknow. The speaker was Dr Jeetendra Varma, President, World Veterinary Poultry Association (India) and Country Lead, International Poultry Council (USA). He spoke about current poultry industry scenario, challenges and the future opportunities. He emphasised on AMR issue, its scenario in India, Govt. initiatives around AMR and One Health, Alternatives to antibiotics, Govt initiatives and support to help the farmers etc. He also elaborated the Govt schemes available to farmers to scale up their operations like NLM, AHIDF etc.

Zonal Manager, Dr Prakash Singh welcomed the participants and Dr Jeetendra Varma. He introduced the Ravioza team supporting the event, Pankaj Gawali, Komal Singh and Satendra Bahadur Singh.

The response to the seminar was excellent and was very well attended by 65 leading

entrepreneurs, feed millers, integrators, large farmers, consultants, nutritionists and industry stalwarts. The guests came from different parts of the area, specially from Lucknow, Jagdishpur, Akbarpur, Barabanki, Bahraich, Sitapur, Pratapgarh, Ayodhya, Hardoi, Unnao and surrounding areas of Lucknow.



Major integrators of U.P like Salva Agro, RK Agro, KS Agro, SBF Group, GT Krishak, KP farms, SMD group, Must keem Poultry, Murga hub and many more attended the seminar.

Leading breeders of Uttar Pradesh like Sweeta Breeding Farms (Dr Pawan Singh), Pratap Breeding Farm (Mr Abhimanyu Pratap Singh), Krishna Breeding Farm (Mr Shekhar Singh), HF Breeding Farm (Moh.



Mahfooz), Salva Breeding Farm (Moh. Mahboob) graced the occasion. Leading veterinarians from different groups and Nutritionist Dr Praveen Singh, Dr Jaiswal, Dr Rakesh Verma also shared their thoughts on current scenario of poultry industry.

Dr Arvind Singh proposed words of thanks to all the guests, consultants, nutritionist and local participants for sparing their valuable time and making the event a grand success. Special thanks are due to Dr Pawan Singh for supporting the local team and assuring the success of the event. Dr Badal Singh came from Chandigarh to attend the event.





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Poultry Federation of India expresses concern over increasing production cost



New Delhi: The team of Poultry Federation of India (PFI) held a meeting today to discuss the important issues related to the poultry industry. The meeting was chaired by Secretary Mrs Alka Upadhyay (IAS) and co-chaired by Mrs Varsha Joshi (IAS) and Animal Husbandry Commissioner Dr Abhijit Mitra at Krishi Bhawan. PFI President Mr Ranpal (Bittu) Dhanda, Vice President Mr Sanjeev Gupta, Secretary Mr Ravinder Sandhu, Joint Secretary Mr Ricky Thapar, and Office Manager Mr Jagdish were present in the meeting. Senior officials of Animal Husbandry Department including Dr SK Dutta and Dr Gagan Garg also attended the meeting.

In the meeting, the PFI team discussed the reasons for the increase in the production cost of eggs and chicken. The team said that the rising prices of corn are the main reason for this increase. PFI demanded that the Animal Husbandry Department should allow the import of duty-free GM corn, especially before the new crop arrives. The team demanded enforcement of BIS standards for corn DDGS (Distillers

Dried Grains with Solubles) and strict regulations to control the quality of aflatoxin in soybean meal. In addition, the team suggested that the ethanol industry be given a 10% rate withdrawal so that rice can be used instead of corn. PFI also suggested that poultry farmers should be allowed to import duty-free corn if corn prices rise 10% above the MSP (minimum support price). Also, it stressed the need to strictly curb hoarding. The PFI team reiterated its dedication towards the development of the poultry industry and solving its challenges and said that it is committed to taking the industry to new heights.

1. Role of GM corn in the poultry industry

Genetically modified (GM) corn is an important component of poultry feed, popular due to its high nutritional value, improved pest resistance, and higher yields. It reduces feed costs and improves poultry health. However, regulatory restrictions apply to the import and use of GM crops in many countries, including India.

2. Impact of corn prices on poultry production

Corn constitutes 60-70% of poultry feed. Fluctuations in its prices directly impact the cost of poultry production. A sharp increase in corn prices increases the cost of eggs and chicken, affecting the entire supply chain from farmers to consumers.

3. DDGS and its role in poultry feed

Distillers Dried Grains with Solubles (DDGS) is a by-product of ethanol production, which is incorporated in poultry feed for protein and nutrients. Adherence to strict BIS (Bureau of Indian Standards) standards ensures the quality of DDGS, thereby safeguarding the health of poultry.



4. Danger of aflatoxin in poultry feed

Aflatoxin is a toxic compound produced by certain fungi found in cereals such as corn and soybean. It can reduce the immunity of poultry, slow down growth and affect egg production. There is a need for strict standards and regular checks on feed quality.

5. Ethanol industry and its impact on agriculture

The ethanol industry is heavily dependent on corn. Producing ethanol from corn provides additional income to farmers, but it can reduce the supply of corn for feed, leading to higher prices. It is important to maintain a balance between the ethanol and poultry industries.



Report: Lalit Lanjewar

6. Hoarding and its effects

Hoarding of essential grains like corn can artificially inflate prices, causing hardship to poultry farmers. Enforcing strict regulations on hoarding can maintain market stability and ensure farmers get feed at affordable rates.



7. The importance of duty-free imports

Duty-free GM corn imports can reduce feed costs during periods of high domestic prices or low supply. This can help poultry farmers keep production costs stable and stabilize egg and chicken prices.

8. Role of Poultry Federation of India

PFI acts as a bridge between poultry farmers and government authorities. It recommends policy measures on issues related to easing import restrictions, controlling feed quality and production costs. It aims to ensure sustainability and growth of the industry. India is one of the largest producers of eggs and chicken in the world. The poultry industry contributes significantly to the country's economy and food security. A collective effort by the government, industry organizations, and farmers is needed to address challenges such as rising corn prices, quality



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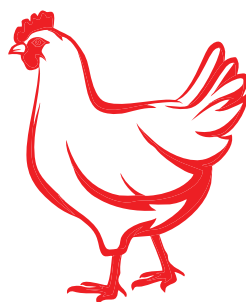
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JK Breeders aims at 15 to 20% layer market for LSL Ultra Lite by 2027 in India

Lohmaan LSL Ultra Lite was developed keeping in mind the Indian market and climatic conditions



Amit Kharb, Layer Business Head, JK Breeders Pvt Ltd and Dr Surendra K. Jangir, MD during the interview by Poultry Fortune

Hyderabad: JK Breeders Pvt Ltd has targeted to have its presence with its Lohmann LSL Ultra Lite layer breed in all the states in India and capture 15 to 20 per cent layer market share in India within three years period, said Mr Sumit Kharb, Managing Director and Dr Surendra K. Jangir, Layer Business Head in an interview with Poultry Fortune Editor M.A. Nazeer. We are planning to have

upto 3 crore LSL Ultra Lite layer chicks supply annually in the country, they stated. JK Breeders Pvt Ltd are the franchisees of Lohmann Breeders GmbH, Germany, for the supply of Lohmann Layer chicks at Pan India. Lohmaan LSL Ultra Lite was developed keeping in mind the Indian market and climatic conditions and it gives medium size eggs, better FCR, livability and egg shell quality. Current

generation of LSL Lite will give 482 eggs in 100 weeks age.

Over the past generation, the present generation Lohmann breed has been further improved to give 7 to 8 extra eggs in hundred weeks, feed consumption for bird is reduce by 5 grams in laying stage, informed Dr Surendra Jangir. Dr Surendra K. Jangir informed that Lohmann Breeders GmbH, Germany has setup its Lohmann Grand Parents breeding farm in Tamil Nadu in India and supplying Lohmann Layer Parents to JK Breeders since 2020. JK Breeders is supplying LSL Ultra Lite chicks majorly in North, South and Central India. In March 2025 the company will start chick supply in Eastern market also, he added.

JK Breeders is having its office and parents farms in Safidon, Jind district, Haryana and head office in Chandigarh.



*Dr Surendra K. Jangir, MD
JK Breeders Pvt Ltd*

The company has hatching facilities in four places like Haryana, Tamil Nadu, Telangana and Jharkhand. Dr Surendra Jangir informed that their prime focus is to provide customers after sale service with the help of 60 Veterinary and Sales professionals all over India. The LSL Ultra Lite layer chicks supplies are dealt by JK Breeders. Dr Surendra Jangir is the operations head of JK Breeders. JK Group consists of JK Feeds, JK Industries (poultry equipment) and JK Hatcheries (commercial broiler chicks production and supply).

Key persons in JK Breeders & JK Group

Mr Sumit Kharb,
Managing Director.

Mr Amit Kharb,
Managing Director.

Dr Surendra K. Jangir,
Layer Business Head.

Dr M. Muthu Rama Krishnan,
GM - South Zone.

Dr Gulab Narwada,
GM - AP, TS and Odisha.



A view of JK Breeders team



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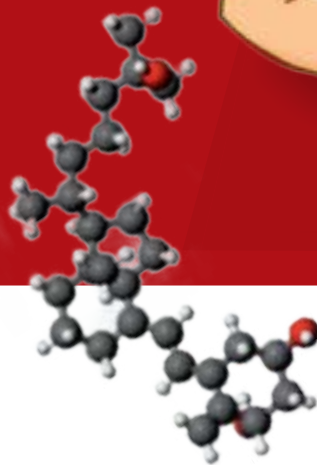
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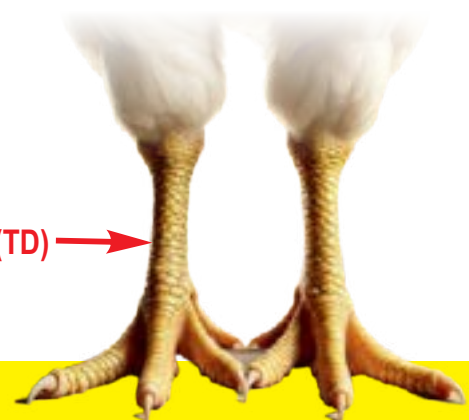


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Venkateshwara B. V Biocorp conducts technical seminars on Pumipro, “a unique probiotic for commercial broilers”

Pune: Venkateshwara B. V Biocorp Pvt. Ltd conducted 4 technical seminars on Pumipro for broiler integrators at Nashik, Hyderabad, Kolkata and Karnal in December 2024.

On 16 December 2024 at Nashik, Maharashtra The seminar opened with an impactful presentation by Dr Ivan Rychlik on addressing understanding the gut micro-biota in chickens. Then Dr C. B Pande, technical consultant, Lallemand Animal Nutrition, France, shared insightful information on Pumipro product, discussed about unique strain of Bacillus Pumilus as a ideal probiotics enzymatic activity in commercial broilers for improving gut health and performance. Afterwards, Dr Sunil Nadgauda, Venkateshwara B. V Biocorp Pvt. Ltd discussed about field trials report on Pumipro and its beneficial effect as compared to Bacillus Subtilison broiler growth performance and feed conversion.



On December 17 at Hyderabad

The seminar kicked off with opening remarks by Mr Deepak Khosla, GM-Marketing, Venworld. His wise words and insightful advice on the emerging diseases, antibiotics awareness that pushing the Indian poultry into greater economic depression were invaluable. He shared his thoughts on how poultry industry is shifting towards use of probiotics for improving gut health of chickens as well as considering food safety measures. The seminar started with an impressive presentation by Dr Ivan Rychlik on addressing the gut microbiota in chickens. Then Dr C. B Pande, technical consultant, Lallemand Animal Nutrition, France, discussed importance of probiotics and how Pumipro product helps to enhance profit and diminish the losses in commercial broilers. Dr Datta Kulkarni, Venkateshwara B. V Biocorp Pvt. Ltd addressed regional field trials on Pumipro product, discussed significant impact of Bacillus Pumillus on broiler average body weight gain and FCR as compared to Bacillus Subtilis.



On December 18 at Kolkata

The programme began with warm welcome and opening speech by Mr Deepak Khosla, GM-Marketing, Venworld provided invaluable insights into the challenges and solutions for optimizing birds performance and tackling antimicrobial resistance issues of paramount importance in today's poultry industry. After opening remarks, Dr Ivan Rychlik addressed the importance of gut micro-biota in chickens. Dr C. B Pande, technical consultant, Lallemand Animal Nutrition, France, discussed regarding how Bacillus Pumillus strain helps to modulate the gut microbiota balance by enhancing beneficial bacteria and limiting undesirable bacteria. Dr Datta Kulkarni, Venkateshwara B. V Biocorp addressed regional field trials on Pumipro product, discussed beneficial effect on growth performance of

Bacillus Pumillus compared to Bacillus Subtilis.



On December 20 at Karnal, Haryana

The program was meticulously orchestrated. The seminar started with presentation by Dr Ivan Rychlik discussed how gut micro-flora is important for healthy chicken. Dr C. B Pande, technical consultant, Lallemand Animal Nutrition, France, shared powerful presentation on Pumipro product, discussed how Pumipro makes an exclusive probiotics globally that has both probiotic as well as enzymatic activity (protease and lipase) which have dual benefits in commercial broilers. Dr Sunil Jadhav addressed zootechnical performance of Pumipro showing better growth performance of Bacillus Pumillus vs. Bacillus Subtilis. The technical seminars were very insightful for broiler integrators.



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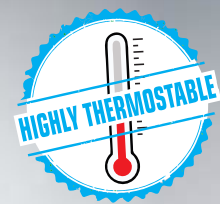
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Memorandum of Understanding (MoU) signed between TERI and Poultry Federation of India (PFI)



Delhi: During the 35th Annual Meeting of the Poultry Federation of India (PFI) held recently in Gurgaon, an important Memorandum of Understanding (MoU) was signed between TERI (The Energy and Resources Institute) and Poultry Federation of India.

The MoU was signed in the presence of TERI Director General Dr Vibha Dhawan and PFI President Mr Ranpal Dhanda. The objective of this MoU is to promote national food security, health care and recycling of waste.



Innovative initiatives for robust poultry farming

Under this agreement, both organizations will develop research and technological solutions for the production of algae-based poultry feed. This type of feed will not only improve the nutritional level in poultry products, but will also increase the production of omega-3 rich eggs. Experts believe that algae-based feed can prove to be a revolutionary step for the

poultry industry, as it will have a positive impact on the environment and promote sustainable agriculture in the country.



Environmental protection and health improvement

This initiative will not only strengthen the poultry industry but will also add new dimensions to the field of environmental protection. Better nutrition through algae-based feed as well as advanced technology for reuse of waste will be developed. Apart from this, it will promote better healthcare in the country as consumption of omega-3 rich eggs will help in reducing heart disease, high blood pressure and other diseases.



poultry industry, as it will have a positive impact on the environment and promote sustainable agriculture in the country.

Economic benefits for farmers and industry

The cost of algae-based feed may be lower than that of conventional poultry feed, thereby benefiting poultry farmers financially. Also, this initiative will generate employment opportunities in rural areas, as new units can be set up locally for algae production. This will not only increase the income of farmers but will also strengthen the rural economy.

New possibilities in the coming times

This agreement is considered an important step towards revolutionizing poultry nutrition and strengthening the country's food security. This will not only increase the production of omega-3 rich eggs, but will also make environmentally friendly agriculture and advanced waste recycling solutions possible. Apart from this, improving the quality of the country's poultry products can also increase export opportunities globally.

Algae-based nutrition will revolutionize poultry feed

The use of macroalgae and microalgae in poultry nutrition is being seen as a significant advancement. The rich nutritional profile of algae, which is rich in proteins, lipids, vitamins and minerals, will not only improve the health of broilers and chickens but also enhance the quality of eggs and meat.



One of the most important aspects of algae-based feed is its ability to improve the microbiome of the digestive tract, allowing for better nutrient absorption. In addition, algae could emerge as an alternative growth stimulant to antibiotics, reducing reliance on antibiotics in poultry production.

However, its effective use will require intensive research to determine the optimum dosage and combination at different stages. This initiative can prove helpful in promoting sustainable and health-conscious practices in poultry production.



Experts say that this initiative will give a new identity to India's poultry industry towards self-reliance and will also strengthen the goals of 'Make in India' and 'Sustainable Development'.



Report: Lalit Lanjewar



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Poultry Feed: DDGS produced from ethanol plant can also become poultry feed, these tasks will have to be done



The President of the Poultry Federation of India (PFI) says that waste from ethanol plants can be included in poultry feed, but certain standards have to be met to maintain the health of the chickens and the quality of eggs and chicken. If the standards are not met, then losses may also have to be incurred.

The voice of maize that arose from the poultry sector has now started reaching the corridors of the ministry. Be it the Dairy-Animal Husbandry Ministry or Agriculture, the maize included in poultry feed is being discussed. The reason is the high cost of maize. Due to which the cost of poultry products like eggs and chicken is increasing. Poultry farmers allege that today maize is being sold at prices higher than the minimum support price (MSP). The reason for which is the use of maize in ethanol. But the good thing is that now the solution to the problem of maize is being sought from the ethanol plant itself. Due to

this, a meeting was held in Delhi recently. Officials of Poultry Federation of India (PFI), UP Distillers Association and US Grain Council attended the meeting. It was discussed that the corn waste after use from the ethanol plant can also be used in poultry feed. But standards will have to be set for this. It is worth noting that this waste is known as DDGF (Distillers Dried Grains with Solubles).

Also read- Poultry Egg: Now the hen will give special egg for children in poultry farm, this will be beneficial for health PFI told these standards for DDGS

PFI President Ranpal Dahananda says that maize is an important part of poultry feed. If DDGS is included in poultry feed, then there are some standards for it. Its use will be beneficial only if those standards are met. For example, the level of aflatoxin should be less than 20 ppb. The moisture level should also be less than 12. If these standards

are met, then there is no harm in using DDGS. Because it is also our job to maintain the quality of poultry products like eggs and chicken.

Farmers can visit ethanol plants Rajneesh Agarwal, general secretary of UP Distillers Association, also attended the meeting. On this occasion, along with presenting his views, he also invited the PFI team to visit the ethanol making plant. He also appreciated the suggestions of PFI. In the end, it was also decided that if DDGS manufacturers provide and maintain consistent quality, then there is still scope for the use of DDGS in poultry feed.

PFI'S appeal to Union Minister Of FAHD

Shri Rajiv Ranjan Singh Ji,
Hon'ble Union Cabinet Minister,
Ministry of Fisheries, Animal Husbandry and Dairying,
Government of India,
New Delhi

Subject:

1. Without complying High Court Order, it is illegal to stop livelihood of the poultry farmers
2. Without complying High Court Order, detention of poultry transport vehicles and closure of meat shops should be stopped

Respected Sir,

The Orders of Hon'ble High Court:

The order passed by the Division Bench in WPIL No.152 of 2018 dated 20.09.2018, but also the earlier order of the Division Bench in WPIL No.77 of 2010 dated 19.12.2011, whereby the State and its agencies were required to ensure that adequate number of slaughter houses were available in the areas coming under Municipalities, and other local authorities, within a period of three years.

In the case of Mehboob Qureshi And Others vs State Of Uttarakhand Through Secretary on 16 November, 2019, the Hon'ble High court observed that the State and its agencies have not only violated the order passed by the Division Bench but also failed to appear in courts during hearings. Let notices be issued to the Secretary, Urban Development, State of Uttarakhand; the District Magistrate, Nainital; the Executive Officer, Nagar Palika Parishad, Nainital; the Nagar Nigam, Haldwani, represented by its Nagar Ayukth; and the Designated Officer, Food Safety and Standard, District Nainital, by the Registry, through personal messenger; and proof of service be filed latest by 22.11.2019. These officials shall be personally present in Court on 25.11.2019 at 10:15 A.M., and shall file an affidavit by that date showing cause why action should not be initiated against them, under the Contempt of Courts Act, for what appears to us, prima facie, to be willful and deliberate

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violation of the orders passed by this Court in WPIL Nos. 77 and 73 of 2011 dated 19.12.2011, and in WPIL No. 152 of 2018 dated 20.09.2018. In the above background, when the state government failed to comply with the court orders it is unfair to stop the livelihood of the poultry farmers by stopping the movement of their trucks carrying poultry birds to the consumption centers and also stopping the meat shops. The failure of the state administration in complying with court orders to create proper slaughter houses in municipal areas is creating serious livelihood issues for the poultry farmers.

Request to the authorities to save livelihood of poultry farmers:

Poultry Federation of India has following request to the union government and to the state governments:

1. High Court Order says create proper slaughter houses

: All state governments should comply with the Hon'ble High Court order and create proper slaughter houses so that farmers can supply birds to the buyers using slaughter houses.

2. Livelihood of the poultry farmers should be protected:

During this time, till state governments are ready with slaughterhouses, the poultry farmers should not be stopped from doing their routine activities for their livelihood.

3. Prevent illegal detention: In the interim till the slaughter houses are ready by the state agencies as per court order, no police personnel or NGO or any other body should be allowed to stop the poultry business which is vital for the livelihood of the small poultry farmers. There should be clear guidelines who can detain the vehicles and how to keep the birds of the detained vehicles.

4. Compensation: In case there is mortality of the birds during the detention of the vehicles, the agency detailing the trucks must be ensured to pay the compensation of all the dead birds based on market rates or at least Rs. 100 (hundred) per kilogram on the live weight basis.

5. Issue guidelines: Please request all the state governments to issue guidelines for all the meat shops regarding their layout and designs so that High court guidelines can be met. The state government can issue the guidelines for the meat shop and transporters of poultry as per the laws so that consumers also continue to get the adequate hygienic meat as per their requirements. On behalf of small poultry farmers, Poultry Federation of India requests the concerned union government and state government authorities to take swift action in these matters and permit the movement of the trucks and operations of the shops so that millions of farmers' livelihood can be saved.

With best regards,

Sincerely yours'

Ranpal Dhanda

President

Poultry Federation of India

PFI'S appeal to Govt of Uttarakhand

Mr Pushkar Singh
Dhami Ji,
Hon'ble Chief Minister,
Government of Uttara-
khand
Dehradun.

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With best regards,

Sincerely yours'
Ranpal Dhanda
President
Poultry Federation of
India

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National Chicken Day held on November 16

We are glad to inform you that we had planned National Chicken Day on 16 November 2024 in memory of Padma Shree Dr B. V. Rao for the fourth consecutive year.

We are glad to inform you that all over India about 900 shops displayed banners of National Chicken Day by giving discounts and free eggs supply along with chicken.

There was a good response from the customers for the activity, informed Mr Vasanth Kumar C. Setty, Convenor, Pan India Broiler Coordination Committee. This could happen with the support of West Bengal, Chhattisgarh, Maharashtra and Karnataka, he added.

This year Assam Association and North India Broiler stakeholders with Venkys India also joined in the celebrations of the day.



Dr Amit Kumar Patra, Business Head, Poultry, Pvs Group with PFI office bearers during PFI AGM held on 27 & 28 December at Gurugram.

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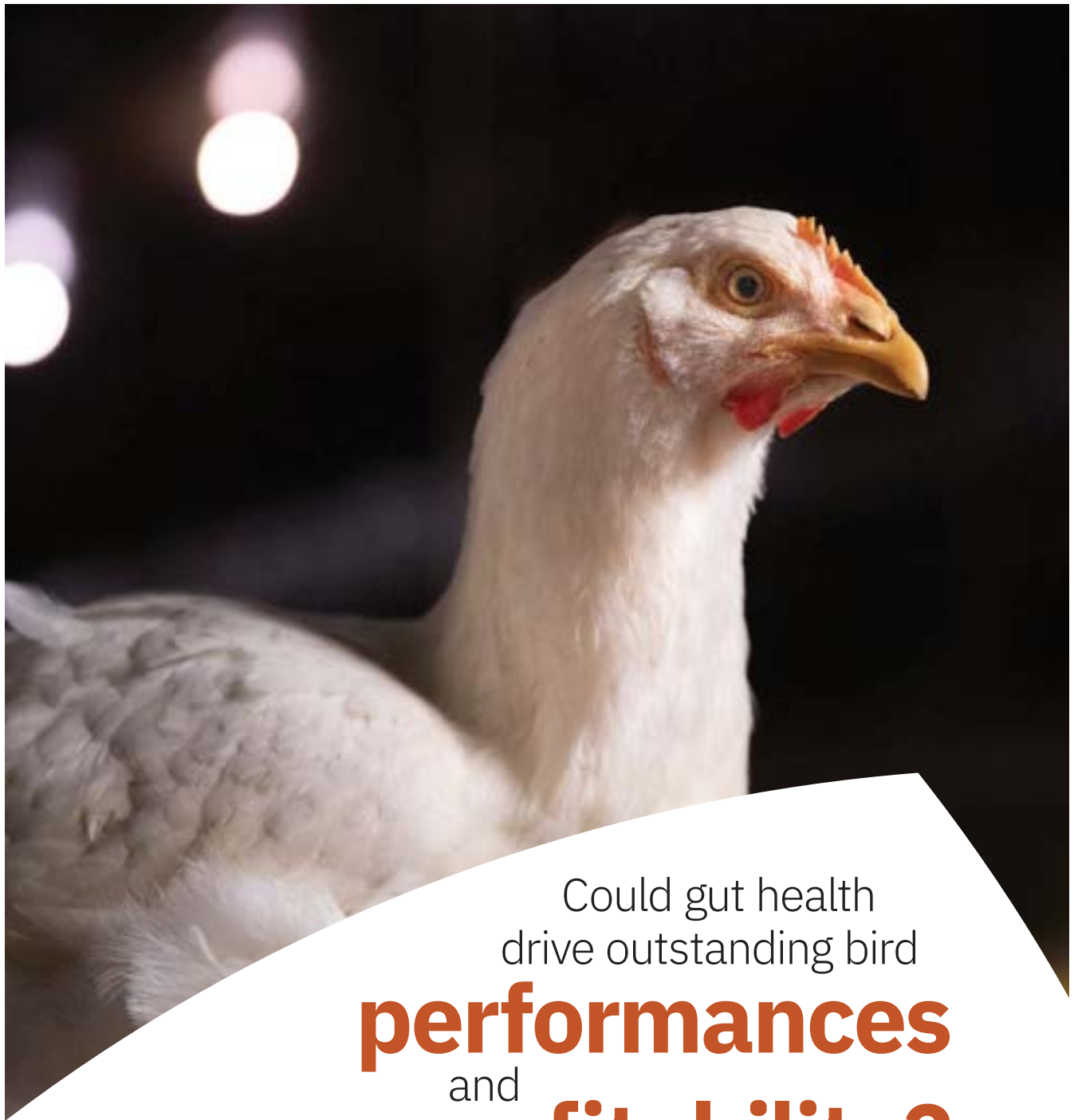


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Dietary Lysozyme supplementation improves performance and egg production in Poultry

Dwipen Bhagawati, Bishwapriya Mukherjee Anthem Biosciences Pvt Ltd, Bangalore, India

Background & Objective: Lysozyme plays a crucial role in poultry health by supporting the immune system and promoting overall wellbeing. Found in various bodily fluids such as tears and also in egg whites, lysozyme acts as a potent antimicrobial agent, effect combating harmful bacteria (1).

Lysozyme works by breaking down bacterial cell walls, thereby inhibiting their growth and reducing the burden of pathogens in the digestive tract and beyond. (2). Use of lysozyme not only enhances disease resistance but also contributes to sustainable poultry farming practices. The introduction of lysozyme represents promising advancements in the quest to address antibiotic resistance offering new hope in the fight against bacterial infections while promoting prudent antibiotic stewardship practices globally (3). The objective of the feeding trial was to evaluate the effect of Lysozyme on growth performance in broilers and egg production in layers.

MATERIALS & METHODS:

Broilers: In the straight run, 180 (one hundred and eighty) broiler chicks with mean body weight of 50±2gm were selected and randomly divided into four treatment groups of 45 chicks each. The shed was thoroughly cleaned and disinfected as per stan-

dard conditions of management. The temperature was maintained at 32.2 -35° C for 1st week and then lowered by 2.8° C each week till it reached 23.9 ± 2.8 °C, the same temperature was maintained throughout the trial period. The average body weight (BW), feed intake (FI) and feed conversion ratio (FCR) in g feed/g gain were calculated. Fresh water and feed were offered ad libitum during the trial period.

Treatment	Specification
T1	Negative Control
T2	Lincomycin @ 80g/ton
T3	BMD @350g/ton
T4	Lysozyme@250g/ton

Layers: 6800 layer birds at the age of 21 week old birds were randomly divided into 2 groups control & treatment -3400 each. Trial was conducted till 41 weeks. FEED/BIRD WAS 112g and 113g respectively). Fresh water and feed were offered ad libitum during the trial period. Birds were reared under standard conditions of managements.

Specification	Control	Treatment
Birds	3400	3400
Feed	Control feed	250 gram of Lysozyme/ MT in control feed

Dosage Recommendation:

Lysozyme-FG* For Broiler/Layer: 250g/ton of feed(4). For Breeder: 500-1000g/ton of feed It can also be used

through water instead of feed as per the dosage given below: Lysozyme WS*;Prophylaxis 1st week – 1g/L of water 2nd week onwards – 1g/3L of water *FG –Feed grade, *WS- Water soluble.

RESULTS & DISCUSSION:

Broiler data: From age 1 to 38d, average weight of negative control was 2226.5 gr, T2 was 2222.8 g, T3 was 2229.4g. Whereas treatment group average weight was 2258.7g. From age 7 to 38 feed intake was 3407.2 g in-group T1, T2 was 3376.43, T3 was 3386.6 and T4 group’s feed - intake was 3406.6g. FCR of negative control was 1.530, T2 & T3 – 1.519 and FCR of T4 was 1.508.

Parameter	T1	T2	T3	T4
Body weight	2226.5	2222.8	2229.4	2258.7
Feed intake	3407.2	3376.43	3386.6	3406.6
FCR	1.530	1.519	1.519	1.508

Layer data: In the control group, the egg production % during the period of 26th week to 36th week was 76.7.03% and treatment group was 77.1%. In control group mortality was 5birds, whereas in treatment group mortality was 2 during the week as shown in the table below. There was no mortality during remaining trial period



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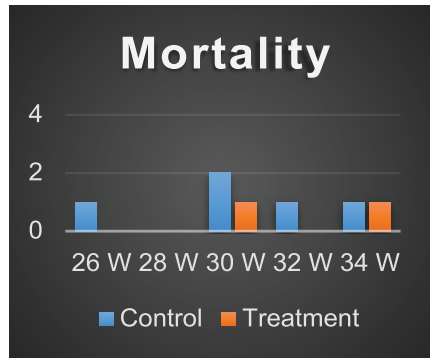
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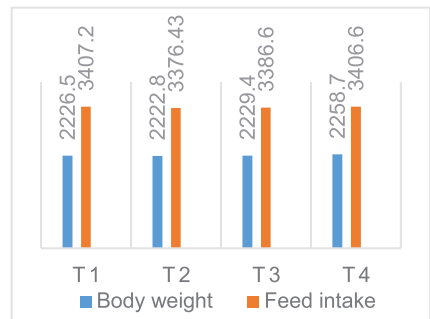


Age-36 weeks	Feed /Bird(g)	Egg %	Mortality
Control	113	76.7	2 Birds
Treatment	112	77.1	5 Birds

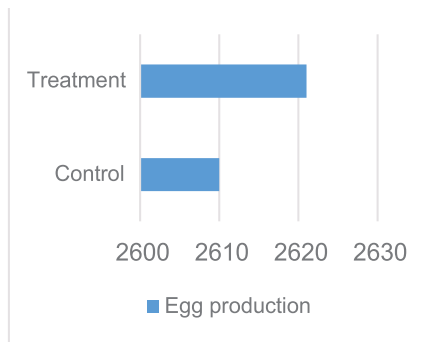


CONCLUSION:

Broiler trial report: This study clearly demonstrated that supplying lysozyme to broilers in their diets exerted positive effects on body weight, feed intake and FCR when compared to other antibiotics.



Layer trial report: It can be concluded that the supplementation of 250g/ton of lysozyme feed exerted positive effect on egg production and mortality.



Anthem Biosciences Pvt Ltd would be keen to share more information about Lysozyme.

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Managing Mold in Animal Feed: Strategies for Risk Reduction and Quality Assurance



Dr Sushanth Mhatre, Assistant General Manager - Techno Commercial, Bentoli AgriNutrition India Pvt Ltd



Yamini Sripal, Assistant Manager - Technical Services, Bentoli AgriNutrition India Pvt Ltd

- Mold contamination in animal feed poses significant risks to livestock health, productivity, and operational efficiency, leading to economic losses globally.
- It affects feed quality through spoilage and nutritional degradation, while mycotoxins produced by molds harm animals, causing immune suppression, organ damage, and reproductive issues.
- Factors like humidity, poor storage, and improper handling contribute to mold growth.
- Mitigation strategies include maintaining proper storage conditions, controlling feed moisture, ensuring cleanliness, optimizing housing environments, and using mold inhibitors and mycotoxin binders.
- A multifaceted approach is essential to safeguard animal health, enhance feed quality, and sustain agricultural productivity.

The quality and safety of animal feed are critical to the health and productivity of livestock, which directly impact the profitability of the agricultural and food industries. Feed contamination, particularly by molds, is one of the most significant challenges faced by livestock producers globally. Mold contamination poses significant risks to animal health, productivity, operational efficiency and the overall sustainability of the livestock industry. They not only spoil the feed but also pose serious health risks through the production of mycotoxins, which are toxic secondary metabolites (Bryden, 2012; Marin et al., 2013).

Mold contamination in feed is a global issue that affects both developed and developing countries. According to

the Food and Agriculture Organization (FAO), approximately 25% of the world's crops are affected by mycotoxins annually, leading to significant economic losses (Bryden, 2012). These losses stem from reduced feed quality, diminished livestock productivity, increased healthcare costs for affected animals, and the potential rejection of contaminated products in international markets (Gallo et al., 2015). Animals exposed to mold-contaminated feed may suffer from a range of health issues, including digestive problems, immune suppression, liver and kidney damage, reproductive disorders, and in severe cases, death (Marin et al., 2013). The *Aspergillus*, *Fusarium* and *Penicillium* molds are among the most important in producing mycotoxins which are




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Impact of Mold Contamination

detrimental to the animals. The economic impacts of mold damage can be substantial, including yield losses, increased production costs, and increased marketing risks and costs.

Factor influencing The growth of mold in animal feed is influenced by a combination of environmental, storage, compositional factors and others. Understanding these factors is crucial for developing effective preventive measures to mitigate mold contamination and reduce associated risks.



Key Areas affected by Moisture and Mold Growth

1. Animal Health

Respiratory Issues: Mold spores can harm animals by causing respiratory problems like brooder pneumonia in poultry, allergic reactions, and weakening their immune systems.

Gastrointestinal Problems: Consuming mold-contaminated feed can lead to diarrhea, vomiting, and abdominal pain in livestock.

Toxicity from Mycotoxins: Molds produce harmful mycotoxins that, when ingested, can reduce feed intake, cause reproductive problems, and, in severe cases, lead to death.

2. Feed Quality

Nutritional Degradation: Moisture promotes feed spoilage, resulting in significant nutrient loss.

Economic Losses: Spoiled feed requires replacement, increasing expenses. It can also negatively affect feed conversion ratios, leading to slower animal growth and decreased productivity.

3. Operational Efficiency

Increased Management Costs: Dealing with contaminated feed and bedding requires additional resources, such as replacements, enhanced hygiene practices, and veterinary care, driving up operational expenses.

Facility Damage: High moisture levels can deteriorate structures within barns and storage facilities, escalating maintenance costs and impacting productivity.

Steps to mitigate the impacts of moisture and mold growth:

Mitigating the impacts of moisture and mold growth in animal feed is crucial for maintaining animal health, optimizing feed quality, and ensuring operational efficiency. Below are key steps to prevent and manage moisture and mold growth effectively:

1. Proper Storage Conditions

Control Humidity: Keep storage areas dry by controlling humidity levels.

Aim for a humidity level of around 50-60% to prevent mold growth. Use dehumidifiers in enclosed spaces or ensure proper ventilation to reduce moisture buildup.

Ensure Ventilation: Adequate airflow is essential to prevent moisture accumulation. Ensure barns, silos, and

storage rooms are well-ventilated, especially in areas prone to high humidity or moisture. Consider installing fans, vents, or air ducts to improve airflow.

Use Water-Resistant Containers:

Store feed in water-resistant, sealed containers or silos to prevent external moisture from affecting the feed. Make sure these containers are elevated off the floor to avoid contact with damp surfaces.

2. Monitor and Control Feed Moisture Content:

Regular Moisture Testing: Conduct regular moisture content tests on feed, especially if it has been stored for an extended period. Excess moisture content in feed can lead to mold growth and spoilage.

Dry Feed Appropriately: If the feed becomes moist during storage or transportation, dry it immediately to an appropriate moisture level, usually around 12-13%, depending on the type of feed. Use commercial drying equipment to ensure feed is thoroughly dried.

Avoid Storing Wet Feed: Never store feed that is already damp or wet, as this provides an ideal environment for mold growth. Ensure all feed is adequately dried before storage.

3. Maintain Cleanliness and Hygiene

Clean Feed Storage Areas Regularly: Ensure that feed storage areas are regularly cleaned and disinfected.

Remove any old feed or debris that could harbor moisture and mold spores.

Remove Spilled Feed Immediately:

Clean up any spilled or scattered feed as soon as possible to avoid attracting mold growth.

Sanitize Feed Equipment: Wash and sanitize equipment such as feeders, troughs, and mixers to prevent mold spores from contaminating fresh feed.

4. Optimize Environmental Conditions in Animal Housing

Control Temperature and Humidity: Maintain optimal temperature and humidity levels in animal housing areas. This will reduce the risk of moisture accumulation in bedding or feed that could support mold growth.

Use Dry Bedding: Keep animal bedding dry and free from moisture, as

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damp bedding can become a source of mold and moisture. Regularly replace bedding material to maintain a dry environment.

Implement Effective Drainage: Ensure good drainage in barns and feed storage areas to prevent water buildup from spills or rain. Standing water is a major contributor to mold growth.

5. Improve Feed Handling and Processing

Keep Feed Clean: Contaminated feed or feed contact surfaces are a breeding ground for mold. Keep all equipment used in handling, processing, and storing feed clean and disinfected.

Proper Loading and Unloading Practices: When transporting or moving feed, avoid excessive handling or exposure to moisture. Ensure that feed is protected from rain or wet conditions during transportation.

Use Feed Additives: Certain feed additives or preservatives can help prevent mold growth and spoilage. These include mold inhibitors or anti-fungal agents that can extend the shelf life of feed. Mycotoxin binders can be added to animal feed to minimize the toxic effects of mycotoxins produced by molds.

Conclusion

Mold contamination in animal feed remains a significant challenge for the livestock industry, with far-reaching consequences for animal health, agricultural productivity, and food safety. Addressing moisture and mold growth in the animal industry is crucial for ensuring animal welfare, maintaining product quality, and enhancing economic efficiency. The mold contamination stems from a combination of environmental factors, inadequate storage practices, and vulnerabilities in feed composition, making it a complex problem that demands a multifaceted approach. Effective management of moisture and mold growth in animal feed is crucial for ensuring animal health, productivity, and food safety. Implementing preventive measures and monitoring strategies can mitigate risks.

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Nextgen Innovations to Support On-Site Challenges

By Dr Shiva Kumar, Technical Director, Trouw Nutrition, South Asia

Sustainable farming is based on three pillars: environmentally sound, socially responsible and economically viable. For all these pillars, innovation will be key and hence, advances in animal nutrition will play an important role, where we have concrete challenges in economical optimization of the value chain and meeting product quality demands, whilst safeguarding animal wellbeing and human health.

Creating the perfect ration can help propel food-producing animals towards optimal nutrition, health and production, contributing to better usage of resources and sustainability. Origin and seasonality of raw materials can have a significant impact on nutritional profiles, making it challenging to know the actual quality of the product at the moment of feeding it to the animals. This can impact the performance of the animals and/or production costs putting at risk the business objectives of the farm or unit. Meanwhile, farmers and feed producers are dealing with price fluctuations of feed ingredients, due to market demands, increasing the pressure on profit margins as well.

Feed quality is key

We also see that farm sizes have gone up in the past years. This gives the opportunity for direct purchase/ access to raw material to farms which introduces new challenges: farmers need to know what they buy from a nutritional value point of view in order to optimise feed cost and perfor-

mance. Overall, the diets have not changed so much, but the inclusion of new raw materials like by-products, has introduced new opportunities as well as challenges; as their quality is also variable. All of these changes in how and where the feed is produced demands that raw materials quality has to be monitored upon arrival in an easy way and everywhere you are. Lab testing, including wet chemistry, is often accepted as one of the most accurate ways of analysing the chemical composition of raw materials. Feed mills often favour lab testing. This testing process, however, is rigorous and lengthy which doesn't make it an accessible or viable option for many farmers.

New portable innovations with NIR

The development of new technologies in the area of raw material feed quality evaluation allows for monitoring at farm level to streamline this process and make it cost-efficient. Therefore, an increasing number of farmers are moving towards mobile precision feeding solutions, such as near infrared technology (NIR). NIR technology has already been identified by feed producers as an accurate and quick solution for feed and raw material analysis, providing cost-effective and heasy access to real nutrient values in their purchased raw materials.

The technology can be used to scan raw materials or silage and provide detailed information, comparable to traditional lab analysis. Although this NIR technique has been used on a large scale at feed producers and large size integrators, until recently

the application has not been available for professional farmers. The technology is now accessible for farms of every size with the introduction of the NutriOpt On-site Adviser from Trouw Nutrition. It can analyse feed samples in minutes and, through its powerful nutritional database, provide practical solutions for farmers to optimise their ration and their business.

How does it work?

The NutriOpt On-site Adviser is a handheld scanner, combined with a mobile app. Once both devices are connected, which takes a matter minutes, anyone, can have the nutritional report (energy and protein, fat, fibre, amino acids, etc) of a defined raw material displayed on their smartphone. With the information of the report, the farmer can already assess how the different nutrients deviate from the targets set by their



bar placed next to the actual nutritional value. The bar represents a target range (minimum and maximum levels) of the defined nutrient, and the measured value is also placed inside of the bar helping the farmer to, on the spot, evaluate in a quick and accurate way what to do. When measured values are outside of the recommended range, an attention dot is displayed, so action can be taken immediately. With a simple click, the report can be shared with



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any person, to request further advise helping in a close contact between the farmer and the consultant/nutritionist. This means that farmers and suppliers, as well as their consultants, can scan samples onsite on every batch, giving them more control over quality consistency, performance and costs using good quality data.



Know what's in the feed - Mitigating mycotoxin risk

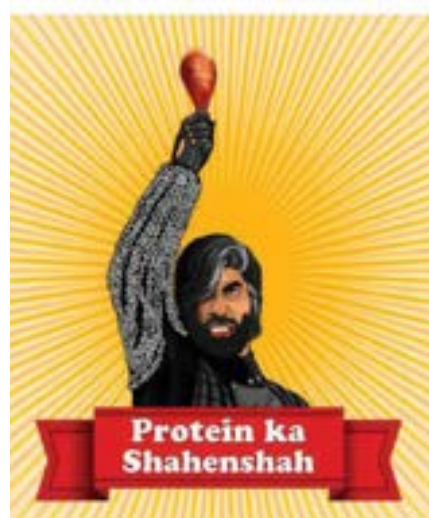
Feed safety can only be guaranteed when we have accurate information on what is in the feed (or not). Mitigating mycotoxins is a key topic along the feed production chain, from raw material procurement to homemixing at farm level. Testing of mycotoxins in raw materials and finished feed has become more important, as these toxins pose a serious risk to animal health, milk quality and overall animal performance.

Having accurate data on contamination levels can be used to monitor trends of raw materials per region and to adjust purchasing decisions of raw materials and feed by farmers and feed mills (better risk assessment). This is where Mycomaster plays an important role. This on-site rapid analysis reader gives a reliable indication of mycotoxin contamination in both raw materials and complete feeds

Mycomaster provides rapid, cost-effective and quantitative mycotoxin analyses of over 40 validated feed raw materials and final feed. And it works on-site, bringing flexibility to testing frequency, in support to quality control, formulation decisions and remediation strategies.

Trouw Nutrition is an organisation that deeply cares about building a

more sustainable future – both for our industry and for consumers. We are committed to transform science into actionable, practical nutrition and farm management solutions to help customers produce quality poultry meat and eggs. We support food producers with the technology that puts advice and data at their fingertips. NextGen technologies ensure that farmers can get control over the diets fed to their animals on a daily basis in order to make informed decisions that will impact their business.





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