

Poultry Fortune

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December 2018

Inside...



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Order against Caging of Birds Upsets Poultry Farmers in India

AAHP Organises 4th Biennial Poultry Health Conference & National Symposium at Chandigarh

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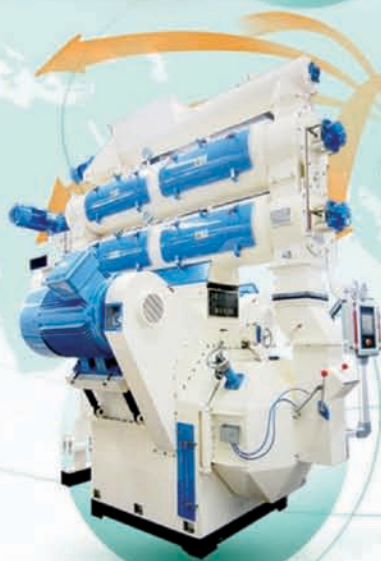
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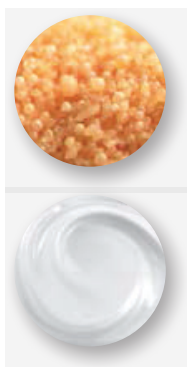
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Tel: 040 - 2330 3989, 96666 89554

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- Editor



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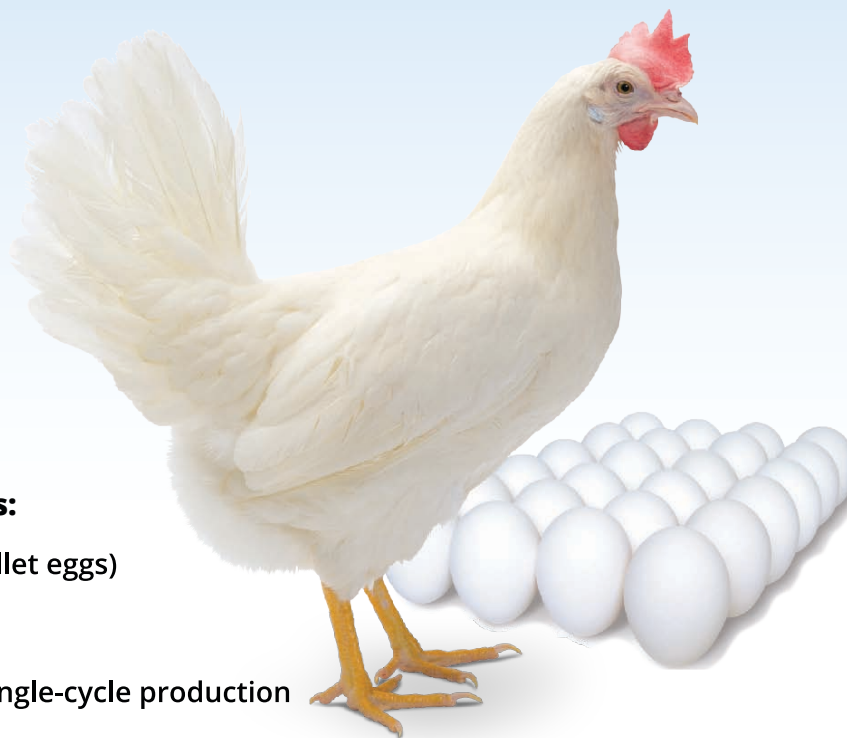
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Regd. Office:

Plot No.82, Kavuri Hills, Phase II,
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Andhra Pradesh

Dr. S. S. Prasad
E: prasad.surapaneni@srinivasa.co
M: +91 99634 54111

Telangana & Rest of India

Dr. Balaji Chate
E: balaji.chate@srinivasa.co
M: +91 91210 20298

Tamil Nadu

Dr. Muthuramakrishnan M
E: muthuramakrishnan.muthusamy@srinivasa.co
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Haryana & Punjab

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AAHP Conference Urges Poultry Health to Ensure Food Safety



Dear Readers,

The December 2018 issue of *Poultry Fortune* is in your hands.

In the News section, you may find news about: Alltech, a leader in animal nutrition, has officially opened its

state of the art manufacturing plant in Pune, India on 27 October 2018. According to the company, this plant is designed to satisfy the needs of Alltech's customers in the region and will be the largest organic trace mineral plant in Asia.

Perstorp Group is investing in the Feed & Food Business Area with the goal of boosting next generation solutions for gut health and preservation.

Association of Avian Health Professionals organized its 4th biennial conference and national symposium on 'Poultry Health: The way forward to ensure food security and food safety'. This conference was jointly organized by Central Poultry Development Organization (Northern Region), Chandigarh and DRDO-Defense Institute of High Altitude Research, Leh-Ladakh.

Pas Reform Hatchery Technologies has appointed Mumbai-based Kishore Farms Equipment Pvt Ltd as its second sales and support centre in India to service hatcheries in the central and northern part of the country.

In order to promote poultry farming and improve the livelihood of women from poor socio-economic backgrounds in Trichy district, the animal husbandry department is set to identify 2,800 beneficiaries and provide them country chicken breed 'aseel' and train them. Animal Husbandry Department said that they had chosen aseel rooster and hen varieties as people in the district have started preferring country chicken over broiler chicken for consumption.

Expressing concern over the recent interim order of the Supreme Court against the rearing of birds in cages, poultry farmers in the Namakkal district of the state of Tamil Nadu have said that this will affect

the industry in a big way. Poultry industry leaders urged both the Centre and the State governments to file a review petition for the withdrawal of the interim order. Namakkal is a major poultry centre of the country. The Namakkal zone of National Egg Coordination Committee accounts for about 1,100 poultry farmers who own more than 4.5 crore (45 million) egg laying birds.

International Finance Corporation plans to make an equity investment of \$23 million (Rs 158 crore) in Srinivasa Farms Pvt Ltd to help the Hyderabad-based poultry breeding company to expand its operations. The fresh capital will help Srinivasa expand its layer, broiler and breeding operations by setting up additional farms and hatcheries, the World Bank's private-sector investment said in a disclosure.

The government has proposed a ban on the use of antibiotic colistin that is widely used in the meat and poultry industry in India to make animals grow faster. The usage of colistin, an antibiotic of last resort, and other such drugs in livestock has been linked to antibiotic resistance in humans. Public health experts say that continued use of such antibiotics in farming renders them useless when treating patients.

In the Articles section, article titled "An Alternative Way to Boost Egg Production in Layers" by Dr Christine Hunger & Dr Gangga Widyanugraha discussed: The top three issues in the layer industry are disease, suboptimal management practices and decreased egg production, all of which can result in lower profits for producers. Preventing these factors will improve egg production and profitability in layer units

Readers are invited to send their views and comments on the news and articles published in the magazine and they would be published under "Readers Column". Time to time, we shall try to update you on various aspects of poultry industry. Keep reading the magazine regularly and update yourself.

M.A.Nazeer
Editor & Publisher
Poultry Fortune



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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Alltech Expands Its Base by Opening New Manufacturing Facility in Pune

Will also be home to Asia's largest organic trace mineral manufacturing

Pune: Alltech, the global leader in animal nutrition, has officially opened its state of the art manufacturing plant in Pune, India on 27 October 2018. The opening ceremony was joined by more than 150 stakeholders from animal industry. This plant is designed to satisfy the needs of Alltech's customers in the region and will be the largest organic trace mineral plant in Asia.



Alltech India started its office in 2001 and its production operations in India in 2004 in Bengaluru. Over the years, the company has grown twenty-fold, serving poultry, dairy, aqua feed millers and farmers to improve their efficiency and profitability.



"When we outgrew our plant capacity in 2016 and decided to expand our business and invest in a bigger plant, Pune was the first choice", said Dr Mark Lyons, President and CEO Alltech. "Pune is one of India's fastest-growing



Dr Mark Lyons, President & CEO Alltech Inc, along with his team during its Pune facilities opening in Pune on October 27.

cities. With a cosmopolitan population of over proximity to the port and speedy development this was an ideal place for us to be able to cater to our customers in a faster and more effective way".



The Pune facility was designed to cater not only to the local market, but to South and Southeast Asia, Australia and Europe as well. The plant spreads over a total area of 132,000 square feet, this will be 101 manufacturing facility for Alltech globally.

The plant is equipped with features such as natural gas as its energy source for reducing carbon emissions, fire hydrant systems ensuring safety,

and segregated docks for raw material and finished products, enabling free movement of vehicles and clear demarcation and traceability of material in and out of the facility. "The dream of Make in India is now a reality", said Dr Aman Sayed, Managing Director of Alltech India and Regional Director of South Asia. Along with these notable features, the Pune facility is also scientifically equipped and advanced.

"We have a full-fledged lab for testing our raw materials and finished



goods internally, ensuring that they meet the quality standards and guarantees before being shipped out to customers", said Mr

Raghu Sarakki, Quality Manager, South Asia. "We are required to follow the Alltech Quality System and our Alltech Q+™ (Quality Plus) program, ensuring the quality, safety and traceability of every batch of product manufactured here." The facility will soon obtain certifications such as ISO22000:2005 (for food safety management), FAMI-QS certification (for European food standards) and ISO14000:2015 (for environmental management).



"The Chakan industrial area is considered as one of the best," added Dr Aman Sayed "MIDC has developed this area, which stretches 246 hectares with basic as well as high grade-quality facilities. Over 750 large and small industries, including a number of automobile

component manufacturers are based in the area."

While addressing the audience, Dr Mark said Alltech intends to continue investment, follow its ACE Principle and job creation in the future while contributing to development as part of its efforts to strengthen its business foundation in this emerging market.





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Alltech concludes South Asia One Ideas Forum in Pune, Maharashtra

Pune: The Alltech ONE Ideas Forum is making its way around the globe to provide an opportunity for more people to experience



Dr Aman Sayed

the power of ONE: The Alltech Ideas Conference and to hear from industry experts on trending topics in the agriculture industry. The global forum provides a local perspective of Alltech's renowned and highly acclaimed annual international conference.



Dr Mark Lyons

The Alltech ONE Ideas Forum has already made

several stops across Europe, Asia and North America, bringing industry leaders and animal feed manufacturers together. The South Asia leg of the forum alone has drawn in 450 people, with 150 attendees at the stop on Oct. 24 in Dhaka, Bangladesh, 100 participants in Kathmandu, Nepal, on Oct. 25 and 200 attendees in Pune, Maharashtra, on Oct. 26.

Dr Aman Sayed welcomed Alltech CEO and President Dr Mark Lyons at the forum in Pune.

"Mark Lyons grew up in the Alltech business", Sayed said. "With experience working across the globe, he has a deep and uniquely personal knowledge of the company. Today, Mark is based at Alltech's headquarters in Lexington, Kentucky. He received his master's degree in brewing and distilling in 2001, followed by a Ph.D. in solid-state fermentation, at Heriot-Watt University in Edinburgh. He has served as a board member of the American Feed Industry Association and active member of International Poultry Council, National

Turkey Federation, National Chicken Council and the National Pork Producers Council. Before moving to headquarters, Dr Lyons



worked in China from 2011 to 2017."

Lyons himself then took the stage to discuss Alltech's



founder, foundation and future.

"Dr Pearse Lyons, an Irish entrepreneur, started Alltech in 1980 and built the company into a multibillion-dollar business

with more than 6,000 employees worldwide", he said. "Alltech is one of the biggest [companies] in its sector, which has its operations in more than 120 countries. Alltech has significantly served the Indian agriculture industry for the last 18 years".

Dr Tugrul Durali, a leading veterinary consultant and expert in antibiotic-free chicken raising and mycotoxin management, explained that feed management is a key factor of gut health management. Durali also discussed how Alltech products nurture good gut health through management solutions like Bio-Mos, Actigen.

Alltech took opportunity to introduce recently launched innovation solution, Viligen Mathew Smith, vice president Alltech Asia-Pacific, spoke on the topic of "Milking the opportunity." Attending dairy customers were engaged with his



A view of participants



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discussion, which included updates on global dairy and global IFM, Keenan and in touch system as well as his thoughts about redefining dairy nutrition with sustainable energy by linking the animal industry



with the biogas industry.

Steve Elliott, global director of Alltech's Mineral Management team, revealed the myths of minerals and presented comparative information about the different chelates available in the market. Elliott emphasized Alltech's analysis of more than 1,000 feed and raw material samples before completing the mineral formulations found in Bioplex products like Bioplex Premium Pak, Bioplex Shrimp I and Bioplex Dairy Max.

There were celebrations held at the other South Asian stops on the Alltech ONE Ideas Forum, including recognition of Alltech India's 18 years of operation and the 15 years Alltech has had a presence in Bangladesh

and Nepal.

Post session cultural activities, Sand art in Bangladesh, Kutumba in Nepal and True Blue in India coloured evenings.

All in all, the South Asia leg

of the Alltech ONE Ideas Forum proved to be a most interactive week, with discussions of revolutionary ideas, disrupting technologies and recently launched innovative solutions as the highlights of the tour.

About Alltech

Founded in 1980 by Irish entrepreneur and scientist Dr Pearse Lyons, Alltech discovers and delivers solutions for the sustainable nutrition of plants, animals and people. With expertise in yeast fermentation, solid state fermentation and the science of nutrigenomics, Alltech is a leading producer and processor of yeast additives, organic trace minerals, feed ingredients, premix and feed.

(Contnd. on page 34)



Perstorp to Invest €14+ Million in Feed & Food

Sweden: Establishing satellite production units in Asia and the Americas to be closer to these markets and customers. Significantly increasing, manpower resources in R&D, regulatory affairs, supply chain, operations, marketing and sales. Expanding the plant in the Netherlands... Perstorp Group firmly invests in the Feed & Food Business Area. The goal: boosting next generation solutions for gut health and preservation. Executive Vice president Roger Mann: 'Consumer demands favor next generation solutions such as the ones we provide. Perstorp has seen this potential. Enlarging our presence allows us to meet these demands.'

Growing consciousness

Investing in Feed & Food was a society driven decision, explains Mann. 'Growing world population and increasing protein consumption require next generation solutions. Taking ownership of your health is a trend we see worldwide. People want to know what is on their plate, how their food is made, how the animals were treated and if they were raised antibiotic free. By investing in Feed & Food we want to contribute to a sustainable world for future generations.'

Next generation solutions

To ensure global availability Perstorp Feed & Food will establish new production units in Asia and the Americas. Mann: 'This way we can offer a faster, more robust and

flexible supply chain. By strategically strengthening and expanding Feed & Food we can keep offering next generation solutions all around the world.' Feed & Food is doubling the number of employees in R&D, regulatory affairs, supply chain, operations, marketing and sales.

The plant in Waspik, the Netherlands will be the beating heart of the Business Area and home to many of the new colleagues. An ambitious investment program has been greenlit for the site to increase office space, laboratories and production capacity.

Lifeline in Agrifood

The key to a smooth organization? Putting the right people in the right place, according to Mann. 'Perstorp Feed & Food combines a lifeline in agriculture with excellent research.'

In the process of recruiting, Mann underlines the importance of hiring people with a passion for agri-food and outstanding skills. 'We want our people to have a deep understanding of farmers', veterinarians' and nutritionists' needs. In this ever changing world with its constantly shifting demands, we have to keep pace with the customer's demands.'



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AAHP – 2018, 4th Biennial Poultry Health Conference and National Symposium Organised at Chandigarh

Chandigarh: Association of Avian health Professionals (AAHP) organized its 4 biennial conference and national symposium on 'Poultry Health: The way forward to ensure food security and food



safety' on October 26 - 27, 2018 at Chandigarh. This conference was jointly organized by Central Poultry Development Organization (Northern Region), Chandigarh and DRDO-Defense Institute of High Altitude Research, Leh-Ladakh. The seminar received an overwhelming response from the poultry industry and witnessed the participation of over 205 distinguished personalities viz., avian health scientists, veterinarians, diagnosticians, industry professionals and research scholars. AAHP is promoting interdisciplinary research in the field of avian health and organizing conference and national symposium on poultry health once in every two year to exchange and disseminate new knowledge and technologies on poultry health and disease management.

The grand inaugural function on 26.10.2018 had marked the binning

of two days conference. Dr Bhuvnesh Kumar, Outstanding Scientist & Director, Defense Institute of Physiology & Allied Science (DIPAS), New Delhi was the Chief Guest, while Dr J.M. Kataria, President AAHP presided over the function. Shri J P S Bindra, CGM, NABARD was the Guest of Honor. In his welcome speech Dr O.P. Chaurasia, Director, DIHAR welcomed the dignitaries and the august the gathering. He stressed challenges of poultry production in high altitude

recommended level of consumption (180 eggs and 10.8 kg poultry meat per person per annum). He narrated various poultry health challenges experienced by poultry industry. He stressed that poultry industry and academia should work together to face these pressing challenges and drive forward to make the industry more sustainable and internationally competitive. The Guest of Honor Mr J.P.S Bindra said the NABARD support to this vibrant and promising



Inauguration of conference-min

areas. In his inaugural address the Chief Guest Dr Bhuvnesh Kumar, said that the fast growth of Indian poultry industry has helped in nutritional security to the growing population. He highlighted the importance of production of clean, safe and hygienic food like poultry meat & egg. In his presidential speech Dr J.M. Kataria stressed that in spite of rapid and persistent growth of poultry production in India, the per capita consumption of chicken eggs and meat is far below the ICMR

industry come in the form of more schemes. He stressed on the low per capita consumption of egg and broiler meat and wished it could augment still further. Dr M.R. Reddy, General

Secretary, briefed about AAHP activities. Inaugural function was concluded with vote of thanks by Dr S. Ganesan, Organizing Secretary & Director, CPDO, Chandigarh.

The two day conference was scheduled in three technical sessions for lead paper presentation, two technical sessions for oral presentations and two technical sessions for poster presentations. A total of 11 lead papers were presented by scientists from overseas and India. These include, LPAI H9N2 - An ubiquitous and aggravating problem for the poultry industry by Dr Gwenaëlle Dauphin, France; Food security, welfare and egg production: are we in the same page globally? by Dr Fernando Cisneros-Gonzalez, Switzerland; Diminishing control of avian mycoplasmas by Dr Robin Achari, Australia; Avian metapneumovirus infection in chickens: Current scenarios and control practices by Dr Kannan Ganapathy, UK; Marek's Disease - A continuing challenge and new tools for prevention by Dr A. Malo, Germany, Changing Pathogens - Major challenge in disease management by K.S. Prajapati, India; Bacterial respiratory diseases with special reference



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to Ornithobacterium rhinotracheale in poultry by T. R. Gopala Krishna Murthy, India; Newcastle disease virus – A constant threat by N.R. Bulbule, India; Respiratory Disease Complex in poultry: unending agony of farmers by N.K. Mahajan, India; Current status of fowl adenoviral diseases: Pathogenesis and diagnosis by Dr Amarjit Singh, India; Avian influenza vaccination: How to time it? by S. Nagarajan, India

On second day, two eminent scientists Dr K.S. Prajapati, Rtd Professor of Pathology, Anand, and Dr Satish Tongaonkar, Vaccinologist, Pune were honored with AAHP Lifetime Achievement Award for their outstanding contributions in the field of poultry health. The awards were presented by Dr Ashok Kumar the chief guest of Valedictory function and Dr J.M. Kataria the President AAHP.

Altogether 20 oral presentations were made in two technical sessions by scientists/students from academia and industry on various topics viz., TLR2 and TLR3 agonists administered in combination derepress infectious bursal disease virus vaccine-induced immunosuppression in chickens, Pathogenesis, tissue tropism and antibody response of nephropathogenic Infectious Bronchitis virus (IBV) Indian isolate in experimentally infected chicken, Grower depletion in commercial layers: A case Study, Epidemiology of chicken infectious anemia in broiler chicken in Haryana, A comprehensive survey of mycotoxins prevalence in feed ingredients in



Releasing of AAHP 2018 souvenir-min

India, Antimicrobial sensitivity pattern of enterobacterial isolates in poultry, Occurrence and aetio-pathological studies on chicken proventricular thickening, Pathology and molecular characterization of important respiratory pathogens of poultry, Efficacy of Animunin on Immunity and Microhistology in CRD Infected Chicken, Evaluation of phytogenic feed additive on gut enrichment in broilers infected with Salmonella gallinarum, Genotyping and Phylogenetic analysis of avian infectious bronchitis strain isolated from different region of India during 2017-18, Clinico-pathological observation, epidemiology and characterization Fowl adenovirus associated with immune-suppression in commercial layer growers in India during 2016–2018, Comparative Antimicrobial Activity of Herbal and Conventional Antimicrobials on Enteric Bacteria Isolated from Intestinal Contents of Dead Domesticated and Non-domesticated Birds, Pathogenicity of field isolate of Fowl Adenovirus type 8b in SPF chicks, Studies on

Serosurveillance and Molecular characterization of Newcastle disease virus in high altitude region of Ladakh, India, Isolation and molecular characterization of Avian Infectious Laryngotracheitis virus in India, Molecular characterization of Hexon gene in recent Fowl Adenovirus (FAdV) isolates from Southern India, Diversity of New Castle Disease Virus Genotypes in India between 2013 and 2015. In poster sessions scientists and students displayed their research findings and interacted with delegates.

In the 2nd day afternoon, an Academia-Industry-farmer Interface session was organised. This session was chaired by Dr R.N. Chatterjee, Director, ICAR-DPR, Hyderabad and Dr J.M. Kataria, President of AAHP, Dr Ashok Kumar, ADG (Animal Health), Dr Sujit Dutta, Dy. Commissioner (Poultry), Dr D.K. Dey CEO, Globion Pvt Ltd, Dr S.K. Gavkare, GM Ventri Biologicals, Shri Sushil Aggarwal, Chairman, Indian Herbs, and Dr P. Mahesh, Director, CPDO & TI, Bangalore. Discussions were held on various issues related to

Alternatives to Antibiotic growth promoters, welfare, regulatory and reporting of new diseases. The session ended with question and answer round, wherein the assembled lot of scientists, industrialists and farmers interacted with technical experts to dispel their confusion.

The Valedictory function had chief guest, Dr Ashok Kumar, ADG (AH), ICAR, New Delhi, The function was presided over by Dr J.M. Kataria, President AAHP. Awards for best oral and poster presentation were announced by Dr M R Reddy, General Secretary, AAHP. These awards were presented by Chief guest. AAHP conveyed thanks and presented mementos to Dr S. Ganesan, Organizing Secretary, and Dr O.P. Chaurasia, Vice chairman for organizing this 4th biennial conference of AAHP in a befitting manner. In the concluding remarks, the President thanked the delegates, sponsors, officials students for extending their cooperation and successful conduct of conference. The two day grand and successful event ended with vote of thanks by Secretary, AAHP.



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Kishore Farm Equipment Boosts Sales and Service Capacity for Pas Reform in Central and Northern India

Mumbai: Pas Reform Hatchery Technologies has appointed Mumbai-based Kishore Farms Equipment Pvt Ltd (KFEPL) as its second sales and support centre in India, to service hatcheries in the central and northern part of the country.

Pas Reform already has a long-established sales and service centre in Udumalpet, in Tamil Nadu. The new centre is headed by KFEPL's CEO Mr Rajesh Rosia, who is a well-known figure in India's poultry industry. KFEPL has been developing and supplying innovative farm equipment for customers across the sub-continent for many years.

Rajesh comments: "We have seen a steady growth in our business, especially in the last couple of years. We have been looking to team up with a group that, like Pas Reform, has a strong reputation in the Indian market. Pas Reform's innovative hatchery technologies complement our product portfolio, so we can now deliver truly integrated poultry projects."

Venkitakrishnan Natarajan, Pas Reform's Sales Director in India, says: "In view of what we have seen in the

last year, we feel that the poultry business in India is really on its way to a sustained growth, with healthy profits for the companies operating in it. "Being able to supply fully integrated projects, with proper service and



Rajesh Rosia, CEO, KFEPL

engineering capabilities, is a must for every company that wants to succeed in the Indian market. Over the past ten years we have also seen that being close to your customer is essential for planning and delivering successful projects. As we foresee a serious growth in India in the next years, we felt the need to enlarge our local presence and get closer to the market. We have known Rajesh and Kishore Farm Equipment for over a decade now and we know that his dedication to customer service fits with our philosophy. We are very proud to have him on our team."

Government to Promote Country Chicken Farming

Trichy: In order to promote poultry farming and improve the livelihood of women from poor socio-economic backgrounds in Trichy district, the animal husbandry department is set to identify 2,800 beneficiaries and provide them country chicken breed 'aseel' and train them.

Animal Husbandry Department said that they had chosen aseel rooster and hen varieties, as people in the district have started preferring country chicken over broiler chicken for consumption.

A total of 200 women would be chosen from each of the 14 panchayat unions in the district under the Tamil Nadu State Rural Livelihood Mission (TNSRLM). Every chosen beneficiary would be provided with 54 week old aseel breeds totally worth

Rs 3,750 and would further be provided Rs 2,500 to set up a necessary shelter for the poultry. "Apart from providing them with the aseel breeds, we would also conduct extensive training for the women regarding poultry farming, when to vaccinate and more," said Regional Joint Director (RJD) of animal husbandry department S. Murugesan. Out of 50, each beneficiary would get around 45 aseel hens and 5 aseel roosters. The RJD also added that raising a country chicken would also indirectly help the families of the beneficiaries gain good nutrition. "Country chicken eggs are healthier and from what we have seen, the families which raise country chicken have their nutritional needs easily met," he said.

NECC Day Celebrated

"My Egg, My Price, My Life"

Hyderabad: The poultry farmers celebrated 'NECC Day' on the occasion of late Dr B.V. Rao's (1935-1996) 83rd Birth Anniversary here on November 6. B.V. Rao is known as the Father of Indian poultry industry. Padmashree Dr B.V. Rao restructured the Indian poultry industry as a modern, scientific driven by technology. On this occasion, we rededicate ourselves to his dream – making India the No. 1 country in the world of Poultry, said an advertisement from NECC. National Egg Co-Ordination

Committee and its members still recollect B.V. Rao's slogan of "My Egg, My Price, My Life". Dr B.V. Rao's Birth Day November 6 is celebrated as NECC Day in the country.





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Order against Caging of Birds Upsets Poultry Farmers in India

Namakkal: Expressing concern over the recent interim order of the Supreme Court against the rearing of birds in cages, poultry farmers in the Namakkal district of the state of Tamil Nadu have said that this will affect the industry in a big way.

According to report poultry industry leaders urged both the Centre and the State governments to file a review petition for the withdrawal of the interim order.

Namakkal is a major poultry centre of the country. The Namakkal zone of the National Egg Coordination Committee (NECC) accounts for about 1,100 poultry farmers who own more than 4.5 crore (45 million) egg laying birds.

The district alone has about 75 per cent of these farmers and more than 80 percent of the total number of the birds. With a production of 3.5 crore (35 million) eggs a day, the zone is second after the Hyderabad zone in egg production.

While the Supreme Court order was only for the new players in the poultry industry, president of the Tamil Nadu Poultry Farmers' Association A.K.P. Chinraj said farmers feared that the order would be extended to the existing poultry farms too.

It would also dissuade new entrepreneurs from entering the industry, he said.

"The Namakkal poultry industry was adopting international standards in the maintenance of cages as well as birds. The birds feel safe in the cages and can move freely. They are being kept in hygienic surroundings," he said.

The birds are kept in elevated cages and this protects them from infectious diseases. The Andhra Pradesh government has already approached the Supreme Court against the order. The Centre and the State Government should also file review petition, he said.

IFC to Invest \$23 Million in Srinivasa Farms

Hyderabad: International Finance Corporation plans to make an equity investment of \$23 million (Rs 158 crore) in Srinivasa Farms Pvt. Ltd to help the Hyderabad-based poultry company expand its operations.

The fresh capital will help Srinivasa expand its layer, broiler and breeding operations by setting up additional farms and hatcheries, the World Bank's private-sector investment said in a disclosure.

It will also the company expand its feed mills and add soya refineries, set up a food park and set up chicken and egg processing businesses, IFC said.

Srinivasa Farms was founded by chairman Jagapati Rao Chitturi in 1965. The Chitturi family collectively owns about 80.04% of the company, the disclosure showed.

The company operates an integrated layer and broiler breeding business and has presence in soya, feed, layer and broiler breeding and contract farming.

IFC said the company's total expansion project cost is estimated at \$83 million and likely to create over 5,000 jobs.

The World Bank arm said its own global expertise in the poultry sector, technical advice on best operating practices and improvement of food safety standards will help Srinivasa Farms grow its operations.

Globally, IFC has invested in some other poultry companies. In 2013, it had provided a convertible loan of \$25 million to poultry producer Country Bird for its expansion in Africa.

In 2014, IFC had invested in Nepalese feed manufacturer Probiotech Industries for sourcing value-added products like soy flour, nuggets and refined oil.

In 2003, IFC had loaned \$30 million to Ukrainian poultry firm MHP to fund investments in infrastructure required to introduce chilled poultry distribution. In recent years, it has also invested in Bangladesh's poultry farm businesses.

Broiler Poultry Farmers Welfare Federation formed

F.M. Sheikh Acting President

Hyderabad: A new national broiler farmers body titled "Poultry Farmers (Broiler) Welfare Federation" was launched on 29 November 2018 at Hyderabad during Poultry India exhibition.

Mr Harish Garware and Mr Chakradhar Rao were the special invitees on the occasion. Federation Acting President Mr FM

Sheikh explained about the federation, its Founder members and the purpose of Federation. He appealed to farmers and industry to join and strengthen the Federation with unity. Dr Manoj Shukla organized the programme while Mr Ajay Tiwari, Mr Shyam Singh Jat, Mr Gulam Bhat, Mr Kamal Arora and Mr Shailendra Kapoor gave their views >>

>>on the need of Federation and assured dedicated efforts for the welfare of farmers. Mr Anvesh Patel gave vote of thanks.

Agreed members please join the Federation and contribute for the voice of Broilers farmers.



From left: Shyam Singh Jat, Suresh Patel, Gulam Bhat, Anvesh Patel, FM Sheikh and Kamal Arora

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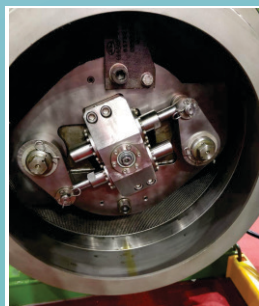


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Proposed Ban on Cage Farming biggest threat to Poultry Industry

New Delhi: The government has proposed a ban on the use of antibiotic colistin that is widely used in the meat and poultry industry in India to make animals grow faster. The usage of colistin, an antibiotic of last resort, and other such drugs in livestock has been linked to antibiotic resistance in humans. Continued use of such antibiotics in farming renders them useless when treating patients, according to public health experts.

An investigation carried out by London-based Bureau of Investigative Journalism had earlier this year found that chickens raised in India were dosed with some of the strongest antibiotics available. It revealed the use of colistin by companies such as Venky's, the biggest supplier of chicken products to fast-food outlets such as McDonald's, Pizza Hut and KFC. Venky's has said that it uses antibiotics only for therapeutic reasons, according to a story in Scroll.in on 2 February.

Government agencies including the department of animal husbandry, dairying and fisheries, Food Safety and Standards Authority of India, ministry of agriculture and farmers' welfare, ministry of health and family welfare and the drug controller general of India have examined the issue and recommended that colistin cannot be used. Further, India's top drug advisory body at its meeting held on 29 November decided that the drug should be banned for use in animals. Doctors call colistin a "last hope" antibiotic because it is used to treat

patients with infections resistant to most drugs.

The Drugs Technical Advisory Board deliberated on the issue and recommended a ban on the use of colistin in an attempt to stem the rising threat of antimicrobial resistance, said two people aware of the matter, requesting anonymity. India's drug regulator has received representation from Dr Abdul Ghafur, coordinator, Chennai declaration on antimicrobial resistance, and technical advisory member, national antibiotic policy, regarding the urgent ban of growth promotional use of colistin in poultry and aqua farming.

The drug in question helps chickens gain weight faster. During its investigation, the Bureau of Investigative Journalism was able to buy Venky's colistin in India without a prescription. It found that growth-promoting antibiotics, including colistin, remain widely available to Indian farmers through a number of international and domestic pharmaceutical companies. "The Bureau found multiple examples of Indian drug manufacturers selling colistin as a growth promoter for chickens," said its report.

Significantly, the World Health Organization has said that the use of such antibiotics, which it terms critically important to human medicine, should be restricted in animals and banned as growth promoters.

Thousands of tonnes of veterinary colistin were

shipped to countries including Vietnam, India, South Korea and Russia in 2016, the Bureau's probe revealed. It also found that Zoetis India Ltd, a former subsidiary of the drugs giant Pfizer Inc., is supplying farmers in India with antibiotics to help them artificially fatten up livestock.

The chief guest of the event Animal Husbandry Department joint secretary Dr OP Chaudhary said growth in the poultry sector in India can be attributed to several factors including rising income and a rapidly expanding middle class.

Organisers of Poultry India Expo, 2018 said that the current biggest challenge of the industry is facing is an ongoing case in court seeking a ban on the use of cages to raise birds.

Telangana Poultry Breeders Association president Dr G.

Ranjith Reddy who attended the event said if cage farming was banned, the cost of production of meat and eggs would double and consumers may bear the brunt.

Speaking on the occasion, Indian Poultry Equipment Manufacturers' Association (IPEMA) president Harish Garware, one of the organisers of the Expo, said, "After bird flu and GST, cage ban is the next biggest threat to the industry."

"Ill-informed NGOs don't understand the difference between pets and domesticated animals," Harish Garware said. He added that the industry was the backbone of agriculture as oil cakes, which are indelible proteins, and grains grown in arid lands are used by the industry.

(Source: The New Indian Express, 29 Nov 2018)

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EW Nutrition highlights Digital Marketing in “Partners in Progress”

EW Nutrition organized an event **“Partners in Progress”** in Hotel AVASA, Hyderabad on 28 November 2018 to honour its channel partners and share the learning of stalwarts of poultry industry. EW Nutrition also highlighted the importance of digital marketing in poultry business.

This exciting event was marked by the gracious presence of more than 150 farmers, consultants, entrepreneurs, feed millers, integrators and other stalwarts of poultry industry.

Mr Shyam Morada, Head - HR and Regulatory Affairs, Mr Kingshuk Chakraborty, DGM Sales, North and East, Mr Karunakar Reddy, DGM Sales - AP & Telangana and Dr Kowsigaraj, DGM Sales South 2 and Head, Technical Services welcomed the guests from various parts of the country and abroad.

Global EWN team members were also present in the event including Ms Marisabel Caballero, Global Technical Manager, Poultry and Dr Ajay Awati, Global Product Manager.

The keynote speaker of the event was Mr Ashok Lalla, a very renowned expert in digital marketing and an independent digital business advisor. Ashok is an award-winning global digital, brand and social media marketing leader with 25 years of diverse business experience. He has the unique distinction of managing worldwide digital marketing for Taj Hotels for

10 years and Infosys for 3 years.

The guest speaker of the event was Mr Narendra Pasuparthi, CEO and Founder of Nandu's Chicken, Bangalore. Mr Narendra shared his business model and his innovative ways of marketing.



Dr Shirish Nigam addressing the meet

Dr Shirish Nigam, Managing Director, South Asian subsidiary of EW Nutrition and an alumnus from IIM, Calcutta highlighted the disruptive changes in past which affected business in positive and negative ways. He also shared the vision and the offered programs of the organization. He



EWN's Launch of New Year Calender based on the Theme of "Functional Innovations of Nature"

thanked stakeholders for their association with the organization and reiterated EWN commitment for being as trusted partner in progress.

The invited channel partners included eminent guests from Bangladesh, Sri Lanka, Nepal and India. All

the key channel partners were awarded a token of appreciation from the Managing Director. The token of thanks was also extended to the guest speakers and other Partners in Progress who have contributed to accelerate the growth of EW Nutrition in South Asia.

During the event, new year calendar highlighting the theme “Functional Innovations of Nature” was



Lamp lighting during the meet

also launched.

About EW Nutrition

EW Nutrition GmbH is a dynamic company, globally active with a strong science-based product portfolio in the field of functional, innovative feed & food additives.

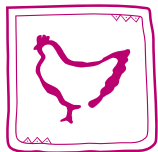
EW Nutrition is located in Germany (headquarter and subsidiaries Agrochemica and Humavet) and is present in different locations with EW Nutrition USA (Des Moines), GRASP (Curitiba, Brazil), EW Nutrition Japan (Gifu), EW Nutrition Biotechnology (Shanghai), EW Nutrition South East Asia / Pacific (Singapore), EW Nutrition Turkey (Istanbul), EW Nutrition South Africa (Johannesburg), EW Nutrition Australia (Goulburn, NSW), EW Nutrition Poland (Puszczykowo), EW

Nutrition India (Noida), EW Nutrition Thailand (Bangkok), EW Nutrition Mexico (Mexico) and EW Nutrition Vietnam (Ho Chi Minh City).

For more information, please visit www.ew-nutrition.com



A view of participants

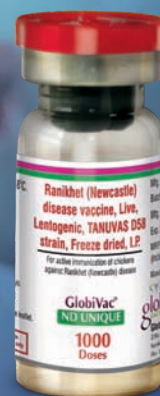


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EW Nutrition Marks Its Presence in Poultry India 2018

Hyderabad: EW Nutrition offered a warm welcome to customers and stakeholders of the industry at Poultry India expo held at Hyderabad on 28 to 30 November 2018.

Dr Shirish Nigam, Managing Director, South Asian subsidiary of EWN, welcomed the visiting guests in the booth. Entire South Asian sales and marketing team was present to address the product queries of the customers. Global Technical Manager for Poultry Ms Marisabel Caballero and Global Product Manager Dr Ajay Awati updated about the latest scientific developments across the globe.

In today's world, antibiotic reduction has become the focal discussion in poultry production which brings along many challenges for the farmers. EW Nutrition shared its global trials and experiences using ACTIVO to phase out antibiotics. Customers were also detailed about the website www.antibiotic-reduction.net which mentioned the approaches towards antibiotic reduction.

Many of the visiting customers discussed about the mycotoxin challenges. EWN team shared the details of a comprehensive mycotoxin risk management solution based on Master Risk Tool (www.masterrisktool.com)

which analyse the levels of mycotoxins in feed, their inter-relationship and categorizes the risk as Severe, Moderate, Low or no Risk. Customers were also briefed about calculating the correct dose of toxin binder in the feed to mitigate the toxin risk.

The main attraction of the EW Nutrition booth was a unique probiotic Progressive HatchPro. It is a novel approach to program the gut of chicks with the beneficial probiotic bacteria immediately after hatching. The demonstration of application of Hatchpro with 3 different types of applicators (Gel @Chick) was also displayed at the booth. Customers got very much curious about using this novel concept and were ready to use it.

A lucky draw was also organized at the end of the first and second day at the EW Nutrition booth. Three surprise gifts were distributed each day to the winning customers.

According to a note from the company, EWN booth attracted a large number of customers and became the epicentre of knowledge, innovation and passion during three days. The spirit and enthusiasm shown by EW Nutrition team in the expo was very much appreciated by the customers who are interested in EWN products and services.



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Inaugural Latin American Poultry Summit to Focus on Broiler, Layer Production and Processing

USA - Debuting at the 2019 International Production & Processing Expo (IPPE) in Atlanta, Georgia, USA, the Latin American Poultry Summit will exclusively feature leading industry experts who will address technical topics covering live production and processing issues of greatest priority to Latin American poultry and egg professionals.

Sponsored by the International Poultry Expo – part of IPPE, WATT Global Media and the Latin American Poultry Association (ALA), the summit is a one-and-a-half-day programme scheduled from 10am–5pm on Monday, 11 February 2019, and 8am–12pm on Tuesday, 12 February. The cost is \$249 for those who register in advance. Onsite registration is \$349.

Andrick Payen Diaz de la Vega, Rabobank, will be the keynote speaker at the summit on Monday and will address world poultry market trends. Dr Paul Aho, Poultry Perspective, will be the keynote speaker on Tuesday and will discuss the world grain situation.

The summit education programme sessions will cover broilers and layers, addressing topics such as Trends in Poultry Welfare; Gut Microbiome Management in Broilers and Layers; Vaccine and Health Improvements for Common Poultry Diseases;

Biosecurity for Latin America: How to Coexist with Non-Commercial Neighbors; Use of Antimicrobials for Pathogen Control; Managing Necrotic Enteritis without Antibiotics; Experiences in Alternative Egg Production Systems; Decision Making in Poultry Marketing with Data; The Use of Robotics in Poultry Production; and more.

The programme will offer translations to Spanish and Portuguese for all presentations. In addition to the educational components, there will be ample opportunities for networking. The cost of registration includes lunch, a reception and dinner on Monday evening. The dinner will feature a special recognition for Latin American Hall of Fame inductees and international students from Latin America.

Attendees of the Latin American Poultry Summit will also have an opportunity to access the vast IPPE show floor (registration required) where they can interact and network with producers from around the world, as well as see the latest technology for the animal food, meat and poultry industries. This year's show floor will be largest ever with more than 590,000 square feet of exhibit space and 1,350 exhibitors.

The 2019 IPPE will be held 12–14 February, and

is a collaboration of three trade shows – the International Feed Expo, International Poultry Expo and International Meat Expo – representing the entire chain of protein production

and processing.

The event is sponsored by the US Poultry & Egg Association, the American Feed Industry Association and the North American Meat Institute.

Zoetis Presents Biodevices and Automation Solutions at Poultry Exhibition in Hyderabad

Zoetis team presented the Embrex Biodevice during Poultry India Exhibition in Hyderabad, India in November 2018.

Through live presentations and an interactive booth, Zoetis demonstrated the benefits of the poultry automation system for accurate, compliant, secure and stress-free production. The event featured the most innovative and reputed solutions for the poultry industry, poultry feeds and poultry equipment.

Delivering Pioneering Technology Poultry Producers in India

With the increased global demand for poultry meat, hatchery production systems require improved efficiencies in safe and sustainable conditions.

With the Embrex Biodevice, Zoetis presents new solutions to Indian producers allowing simplified vaccination for safe, secure and stress-free production conditions, leading ultimately to reliable immunisation [1], disease protection at hatch [2], and more meat at harvest [3].

Supporting Farm Productivity via Enhanced Hatchery Vaccination

“Biodevice and automation has become a key solution for effective in ovo vaccination to protect birds at hatch,” said Ketan Dhamnaskar, General Manager, South Asia, for Zoetis.

Satinder Wahi, International Bio Device & Automation, Commercial Lead, APAC, highlighted the benefits



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of the new technology. “Zoetis added pioneering technology with the Embrex Biodevice to its current poultry portfolio. With more than 650 devices in operation today, the in ovo system has already vaccinated more than 275 billion eggs across the world. The technology improves birds’ health, birds’ feed conversion ratio and provides customers an

accurate, compliant, secure and uniform solution to produce high-quality meat.” Arkhom Cheewakriengkrai, VP, Southeast Asia, India and Distribution Markets, said: “The Embrex automation system helps integrators prevent disease in day-old chicks, allowing them to grow in healthier and more efficient conditions.”

Monthly Average Egg Prices all over India and Prevailing Prices at Various Production Centres (PC) and Consumption Centres (CC) - Source: NECC

For November 2018

NECC Prices

Name of the Zones	Month Average Price in Rs
Ahmedabad	440
Ajmer	403
Banglore (CC)	421
Chennai (CC)	430
Chittoor	423
Delhi (CC)	430
East Godavari	400
Hyderabad	397
Mumbai (CC)	454
Mysore	423
Nagapur	394
Namakkal	410
Pune	446
Punjab	404
Vijayawada	400
Vizag	401
West Godavari	400
Warangal	399

Prevailing Prices

Name of the Zones	Month Average Price in Rs
Allahabad (CC)	438
Barwala	403
Bhopal	422
Hospet	386
Indore	422
Jabalpur	422
Kanpur (CC)	441
Kolkata (CC)	441
Luknow (CC)	467
Raipur	422
Varanasi (CC)	459



(Contn. from page 16)

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An Alternative Way to Boost Egg Production in Layers

Dr Christine Hunger, Product Manager - PhytoGenics, BIOMIN Holding GmbH
Dr Gangga Widyanugraha, Regional Technical Sales Manager - Poultry, BIOMIN Asia Pacific

When chickens are not well fed, egg production will decrease. This is mostly caused by a lack of drinking water and low feed intake levels. Chickens tend to eat less when the feed is not tasty or when they are stressed due to environmental factors, especially when it gets too hot. Therefore, clean drinking water and high quality feed should be available at all times.

Management and Lighting

On the management side, as an example, good biosecurity practices and lighting management are important for in-housed chickens. When the lights are off, chickens do not eat and this results in low egg production. Lights should be checked regularly so that they do not get dimmer. Exposure to light for less than the minimum time required results in a drop in egg production. On the other hand, when chickens are exposed to too much light, they reach sexual maturity at an early stage and they lay very small eggs.

Need for Efficiency

Predictions suggest that in 2050, 9 billion people will need to be fed worldwide. Planet Earth is a limited system in terms of natural resources e.g. arable land. So, the challenge is to get more food from the same limited system. The answer is greater efficiency. Efficiency must consider all the stages in the food production chain. Genetic companies are focused on continuously improving laying efficiency. In 1998, a layer was able to lay 310 eggs in 72 weeks. Today, twenty years later, it is 320 eggs in the same period.

Feed is another key factor for layers' efficiency. Since feed represents between 60% and 70% of the total cost of egg production, a lot of attention is paid to improving feed efficiency. Selected phytoGenic feed additives (PFAs) are capable of supporting layer performance in these ways.

The power of PhytoGenics

PhytoGenics have traditionally been used as flavors and spices in human nutrition and medicine or even for food preservation. The incredible biodiversity of the plant kingdom provides a large variety of different herbs and spices with an enormous number of active substances exerting different effects in the organism. These effects range from stimulating endogenous enzyme secretion, influencing gut microbiota and enhancing gut protection.

Their mechanism of action depends on the chemical structure of the active

substances or constituents. Spices, herbs, essential oils or extracts exert different effects. For example, phenols such as thymol, carvacrol and eugenol (often derived from thyme, oregano and clove) and their methyl ethers have a very strong antiseptic effect. Species of the families of Apiaceae such as caraway and fennel and Lamiaceae (e.g. rosemary and peppermint) have strong antioxidative properties. Other plant compounds support better digestibility by boosting digestive secretions such as bile, mucus and saliva, as well as enhancing enzyme activity. Constant and reliable results in animals, however, can only be achieved with a well-defined formulation of a phytoGenic blend, including standardized raw material with continuous quality control.

Digestarom for Better Efficiency and Egg Production

A study conducted at a research facility in Thailand confirmed the positive effects of a precisely formulated phytoGenic feed additive (Digestarom, BIOMIN Holding GmbH, Austria) on egg production, feed intake, egg weight, egg mass and feed conversion ratio (FCR). The study showed increased egg production (+2.12%), feed intake (+6.33 g/day), egg weight (+0.42 g) and egg mass (+1.68 kg). FCR was -0.07 lower in the treatment group compared to the control group (Table 1).

Table 1. Effect of Digestarom on performance parameters

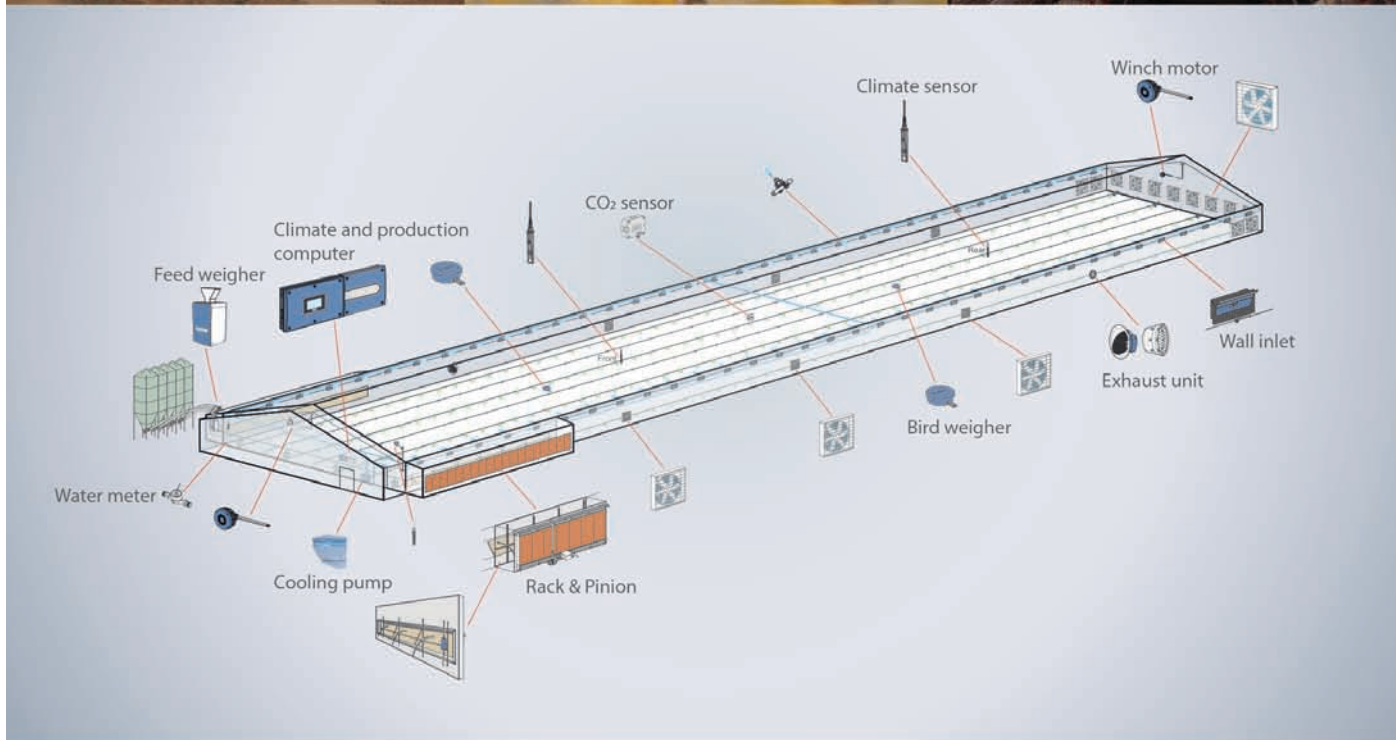
		Control	Digestarom	Difference
Egg Production	%	85.36	87.48	+2.12
Feed Intake	g/d	101.15	107.48	+6.33
Egg Weight	g	57.6	58.02	+0.42
Egg Mass	kg	49.85	51.53	+1.68
FCR		2.29	2.22	-0.07

Conclusion

Future population growth and limited resources will be key drivers for looking at solutions to improve efficiency in animal production. In the animal, impaired feed conversion results in decreased performance. The significant influence of precisely formulated phytoGenic feed additives improved feed efficiency and egg performance.

Highlight Points

The top three issues in the layer industry are disease, suboptimal management practices and decreased egg production, all of which can result in lower profits for producers. Preventing these factors will improve egg production and profitability in layer units.



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Indigenous Poultry Germplasm of India and their Importance

Monika.M¹, Jyotirmoy Saharia², Rokade J.J³, Dinesh.M⁴, Sangeetha S. Gireesh⁵ & Joan Jose⁶

^{1,2}MVSc. Scholar, Poultry Science, ³Scientist, Avian Genetics & Breeding, ⁴MVSc., Veterinary Pathology,

⁵MVSc., Veterinary Medicine, ICAR-IVRI, Izatnagar-243122, Uttar Pradesh,

⁶MVSc., Animal Genetics and Breeding, COVAS, Mannuthy-680651, Kerala





Introduction

Backyard farming has over the years contributed to a great extent to the agrarian economy of different countries. It provides livelihood security to the family in addition to securing the availability of food. Chickens are the most popular poultry worldwide irrespective of culture and region. Birds managed under backyard system contribute crucially to women livelihood and are of critical cultural importance in the lives of native communities. More than 80% of the world poultry production is in village production system contributing up to 90% of poultry products in some developing countries. Village poultry makes a substantial contribution to household food security throughout the developing world. It helps to diversify income, provides high-quality food and fertilizer, and acts as a form of household savings and insurance.

The importance of native breeds of poultry birds for the rural economy in developing and underdeveloped countries mostly in Asia and Africa is very high. They are part of a balanced farming system that has vital roles in the rural households as a source of high-quality animal protein and emergency cash income and play a significant role in the socio-cultural life of the rural community and woman empowerment.

One of the most important positive characters of native chicken is their hardiness, which is the ability to tolerate the harsh environmental condition and poor husbandry practices without much loss in production. The native breed chickens are the reservoir of genomes and major genes for improvement of high yielding exotic germplasm for tropical adaptability and disease resistance. The low production performance of native breeds of chickens may be improved through improvement in husbandry practices, better health-care, and supplementary feeds during lean season and also through selection and crossbreeding. Crossbreeding with exotic germplasm showed the improvement quickly; however, selection in native breeds can bring the improvement permanently.

In India, some of the important breeds/varieties which have been documented are Aseel, Ankaleshwar, Busra Chittagong, Daothigir, Denki, Ghagus, Haringhatta black, Kadaknath, Karachi, Kashmir Faverolla, Miri, Punjab Brown, Tellichery, Titri, Teni, Nicobari. Besides this many nondescript desi chicken, breeds are reported.

Indigenous Germplasm	Breed & Home tract	Description& Production performance of the Breed
	Ankleshwar Gujarat	Golden yellow plumage is predominant in cocks. Black golden is more common in hens Age at 1 st egg: 5 months Fertility rate: 91.3 % Hatchability on total egg production: 92.4 %
	Aseel Andhra Pradesh, Uttar Pradesh, Chattisgarh	Majestic stamina Pride breed of India Bred mainly for cockfighting Age at 1 st egg: 6 - 7 months Fertility rate: 84.28 % Hatchability on total egg production: 86.11 %
	Bursa Gujarat, Maharastra	Wide variation in body color Age at 1 st egg: 5 - 7 months Hatchability on total egg production: 60 - 85 % Annual egg production: 40 - 66
	Chittagong/Malay Northeastern states of India bordering Bangladesh	Game birds Quarrelsome temperament



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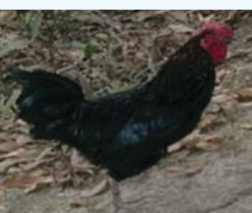
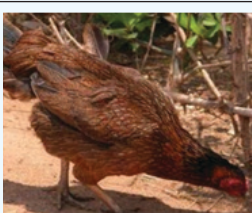

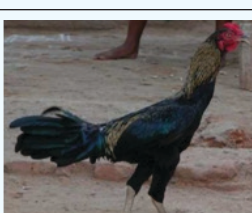
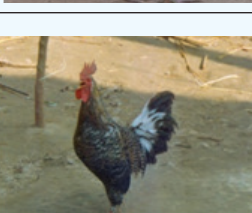
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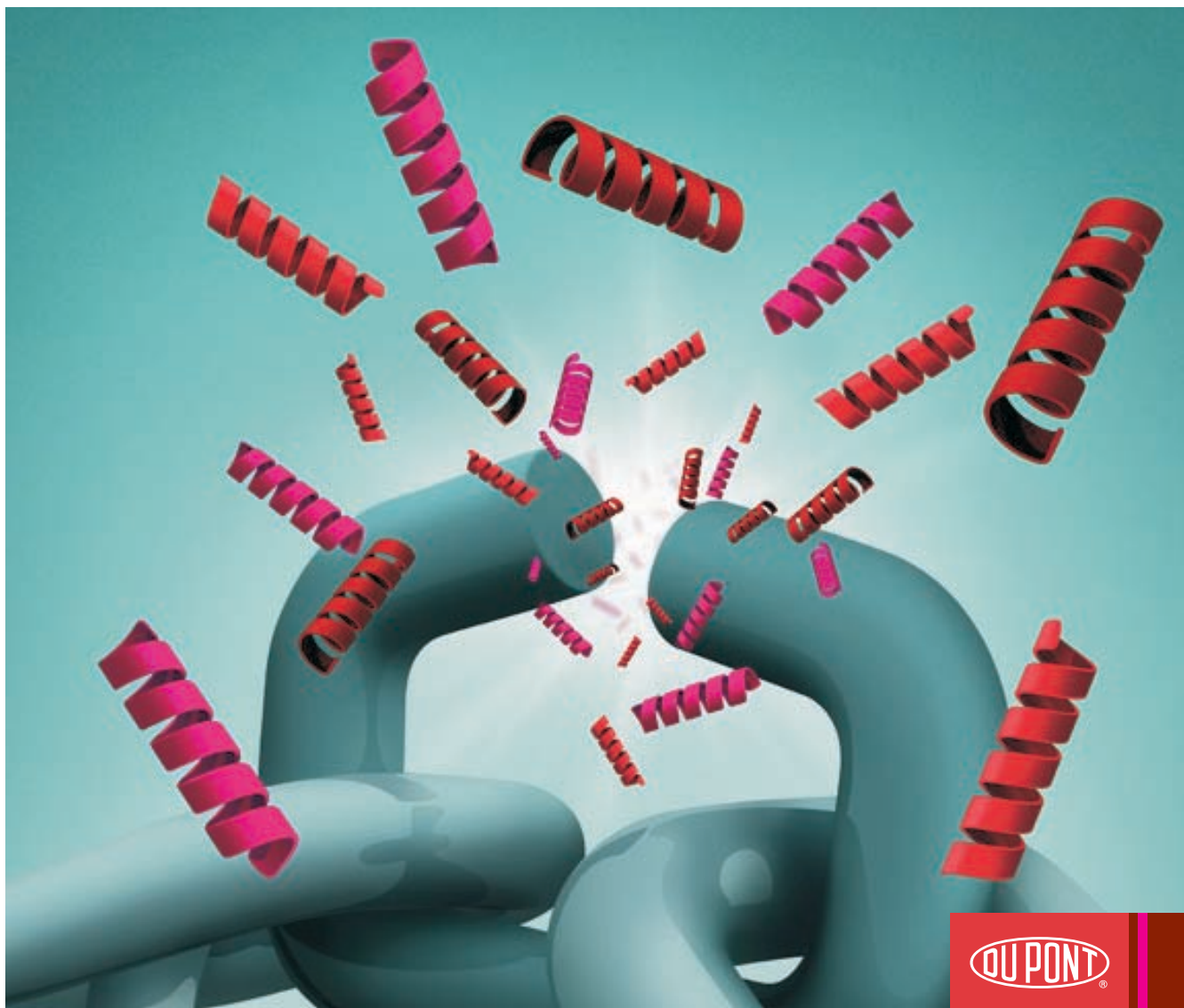


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	Danki/Dinki Andrapradesh	Fighting purpose Ability to fight without slashers Age at 1 st egg: 6 - 8months Fertility rate: 70 - 85% Annual egg production: 25 - 35
	Daothgir Assam	The bear plumage of different colors Black interspersed with white feathers Flowers of Thigir plant resembles this bird's comb Age at the 1 st egg: 5 months Annual egg production: 45
	Hansli Orissa	Tastier than farm-bred chicken Fighting cock Age at the 1 st egg: 6 months Annual egg production: 50 - 60
	Harringhatta black West Bengal	Excellent breed for backyard rearing Jet black body with white shanks Annual egg production: 130
	Ghagus/ Ghegu Karnataka, Andhra Pradesh	For egg and meat production Age at 1 st egg: 6 - 8 months Hatchability on total egg production: 60 - 85 % Annual egg production: 45 - 60
	Kadaknath/kalamasi Madhya Pradesh	Meat and blood is black in color Age at the 1 st egg: 6 months Fertility rate: 74 % Hatchability on total egg production: 61 % Annual egg production: 85 - 90
	Kalasthi Andhra Pradesh	For meat purpose Age at the 1 st egg: 6 - 9 months Hatchability on total egg production: 60 - 85% Annual egg production: 30 - 42
	Kashmir favorlla Jammu & Kashmir	Meat and egg production Feathered comb & presence of the fifth toe Age at the 1 st egg: 6 months Fertility rate: 77% Hatchability on total egg production: 64 % Annual egg production: 60 - 67



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	Kaunayen Manipur	Cock Fighting Fight for a longer duration Age at 1 st egg: 6 - 7 months Hatchability on total egg production: 66 % Annual egg production: 35
	Mewari Rajasthan	For egg and meat purpose Annual egg production: 37 - 62
	Miri Assam	For egg and meat purpose Age at the 1 st egg: 6.6 - 7.5 months Fertility rate: 87 - 91 % Hatchability on total egg production: 73 - 83 % Annual egg production: 54 - 67
	Nicobari Andaman & Nicobar islands	Short legged and compact body Adopted to hot and humid ecological zones Highest egg production among indigenous Age at the 1 st egg: 4.7 - 9.2 months Fertility rate: 62 - 98 % Hatchability on total egg production: 60 - 86 % Annual egg production: 112 - 237
	Punjab brown Punjab & Haryana	Meat and egg production Male: Black stripes on their neck, wings, and tail Age at sexual maturity: 30
	Tellicherry Kerala	Mainly for meat production Black with a shining bluish tinge on the hackle Hen makes noise after laying Ayurvedic medicine for asthma treatment Age at 1 st egg: 5 - 8 months Hatchability on total egg production: 70-80 % Annual egg production: 60-80

Advantages of rearing Indigenous birds

- Acceptability of the colored desi bird by the landless labourers or marginal farmers.
- Use of broodiness for hatching the chicks.
- The capability of self-defence from predators due to its alertness, light body weight longer shank length, camouflage characters, and aggressiveness.
- Have better adaptability to extreme climatic conditions prevailing in the country.
- Can thrive well under adverse environments like poor housing, poor management, and poor feeding.
- Indigenous birds are comparatively disease resistant to protozoan and ectoparasites.
- They are comparatively hardier and need less health care than exotic birds.
- The meat from native fowl has significantly higher amino

acid contents (arginine and lysine) than meat from exotic birds.

- The brown-shelled eggs of native fowl are rich in threonine and valine than farm eggs, have good flavor and fetch a premium price.
- Indigenous meat is widely preferred especially because of their pigmentation, taste, leanness, and suitability for special dishes and often fetches higher prices.

The native genetic resources are the gold mines of genomes and major genes for improvement of high yielding exotic germplasm for tropical adaptability and disease resistance. Upgradation of the native breeds of chickens through different breeding technique helps to increase the productivity of the germplasm and also their conservation in their natural habitat as the rural people will be very happy to rear them for their adaptability to the harsh environment.

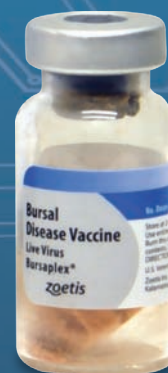
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Number Game: How Many Mycotoxins should be analyzed in Indian Poultry Feeds and Raw Materials?

Dr Swamy Haladi, Feed Additives Manager, Trouw Nutrition India

The so called “Mycotoxins” is not a new subject to Indian poultry industry. Perhaps, it is not an overstatement to say that Indian poultry feed millers, integrators and farmers understand mycotoxin challenges much better than their counterparts from the other countries. This is due to the extensive applied research carried on mycotoxins in poultry as well as high occurrence of aflatoxicoses in the field.

Mycotoxins are secondary metabolites of molds and their presence in the raw materials and feeds depends on many factors. Today scientists have discovered more than 500 mycotoxins but all of them may not be of economic significance. Some of these factors include moisture, temperature, relative humidity, insect damage etc. during plant growth as well as during storage of raw materials and feeds in feed mills.

Rule of Thumb for Mycotoxin Analyses

Given that molds are ubiquitous, it is impossible to find any grains or feeds without one or the other mycotoxins. Since there are more than 500 mycotoxins that are known today, it is practically impossible to analyze all of them. It is well accepted globally that the analyses of feeds and raw materials for aflatoxins, ochratoxins, fumonisins, T-2 toxin, DON (vomitorin) and zearalenone will provide a fair understanding of potential toxicity in animals. Since mycotoxin analysis can be expensive, the following rule of thumb should be applied while considering mycotoxin analyses;

1. When feed millers need to make a decision about accepting or rejecting incoming raw materials, individual raw materials especially grains should be analyzed for mycotoxins.
2. When bird performance and health is questioned in the field, poultry feed should be analyzed first for mycotoxins. If the feed contains more than accepted levels of mycotoxin/s, then raw materials should be analyzed to ascertain the root cause of the problem.

Types of Molds and Mycotoxins

The molds and mycotoxins that are produced in the field during crop growth are respectively called as “field molds” and “field mycotoxins”. *Aspergillus*, *Penicillium* and *Fusarium* are the most studied field molds (Figure 1 and 2). *Aspergillus* generally grows in tropical countries such as India while *Fusarium* molds are capable of growing both in tropical, semi tropical and temperate regions of the world. *Penicillium* molds are more common in semi tropical regions such as Eastern Europe.

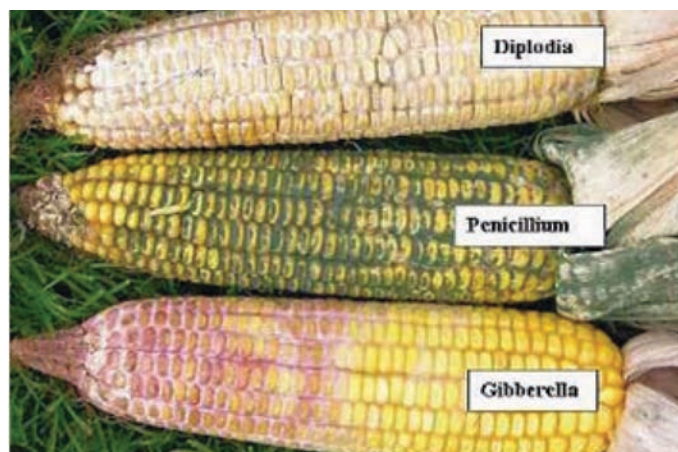


Figure 1. Field mold infestation in maize in temperate region
(Source: Ohio State University)



Figure 2. Field mold infestation in maize in tropical region
(Source: Ohio State University)

Aspergillus and *Penicillium* molds are well known to be grown during storage of raw materials and feeds (Figure 3). Storage molds and mycotoxins are a significant problem in tropical regions such as India.



Figure 3. Mold growth during storage of maize
(Source: Dr Swamy)

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From Table 1 below, it can be clearly understood that India being a tropical country (some parts are semi-tropical in winter season) the type of mycotoxins those can be expected in raw materials and feeds are aflatoxins, ochratoxins, cyclopiazonic acid, T-2 toxin, HT-2 toxin, DAS, fumonisins and moniliformin. As mentioned earlier, today Indian poultry industry has the practice of analyzing raw materials and feeds for aflatoxins, ochratoxins, T-2 toxin, DON, zearalenone and fumonisins. This practice may not be relevant to Indian poultry (Table 2) and that raises few questions.

Table 1. Classification of commonly found molds and mycotoxins in raw materials and feeds

Types of Molds	Region of Growth	Types of mycotoxins
<i>Aspergillus</i>	Tropical (eg. India)	Aflatoxins, ochratoxins, cyclopiazonic acid etc.
<i>Penicillium</i>	Semi-tropical (eg. Eastern Europe)	Ochratoxins, citrinin, patulin, penicillic acid etc.
<i>Fusarium</i>	Temperate (eg. Canada)	DON, zearalenone, nivalenol etc.
	Semi-temperate (eg. Western Europe)	T-2 toxin, HT-2 toxin, DAS etc.
	Tropical (eg. India, South Africa)	Fumonisins, moniliformin etc.

Mycotoxin Survey in India

Many surveys have been conducted over the years on mycotoxin contamination in Indian raw materials and feeds. One such survey (Biomin Mycotoxin Survey 2017, Table 2) clearly shows that the occurrence of fumonisins was the highest (88%) followed by aflatoxins (81%) and ochratoxins (76%).

Table 2. Mycotoxin survey of raw materials and feeds in South Asia – 2017 (Source: www.biomin.net)

Toxin Type	Aflatoxins	Ochratoxins	T-2 toxin	Fumonisins	DON	ZEA
% positive	81	76	1	88	14	12
Average of positives	33	9	18	406	76	21

LD50 Values for Mycotoxins

Mycotoxin toxicity depends on the species of animal in question, age of the animal, type and number of toxins detected, and the concentration of mycotoxins in feed. LD50 values are commonly used in laboratory animals and poultry to determine the severity of toxicity of mycotoxins to a specific species. LD50 (mg/kg body weight) means the amount of single dose of toxin that is required to kill 50% of experimental population. In poultry, such measurements are generally made using one-day-old broiler chickens. Table 3 shows LD50 values for some of the mycotoxins of importance in poultry. According to Table 3, poultry species is more

sensitive to ochratoxins followed by T-2 toxin, aflatoxins and DON. Poultry is quite resistant to DON.

Table 3. LD50 values of some of the key mycotoxins in poultry (Leeson et al., 1995)

Mycotoxin Name	LD50 Value (mg/kg bw.)
Ochratoxins	2.1
T-2 toxin	5.1
Aflatoxins	6.5
DON	140

Taking into account the kind of mycotoxin analyzed in India today, type of mycotoxins actually detected in survey and LD50 values of mycotoxins in poultry, the following questions can be raised. An honest effort has been to answer them with scientific facts.

Why are we analyzing DON and Zearalenone in Indian poultry raw materials and feeds?

Table 2 clearly shows that the concentrations of these two toxins are quite low (76 and 21ppb). Moreover, these two toxins are very less toxic to poultry. Please refer to LD50 value in Table 3. Zearalenone levels as high as 800ppm did not cause much toxicity in poultry (Leeson et al., 199%).

Does the high occurrence of fumonisins in Indian feeds warrant its regular analysis?

The answer is “No” as the concentrations detected are too low (Table 2) to cause toxicity in poultry. Weibking et al., (1993) proposed minimum effective dose of 75ppm (75,000ppb) fumonisins to cause toxicity in poultry. This is about 180 times that of the average fumonisins detected in Indian raw materials and feeds (Table 2).

Do we need to analyze T-2 toxin?

There is no doubt that poultry is sensitive to T-2 toxicity (please see Table 3). However, the concentrations are too low to cause toxicity (Table 2). Given their high toxicity in poultry, it is recommended to analyze T-2 toxin case-by-case basis. This means whenever the birds are experiencing immunity and gut health challenges, the analysis of T-2 toxin is recommended.

Mycomaster

Rapid analysis of mycotoxins at feed mills is very critical to maintain quality of raw materials and poultry feeds. In this regard, Trouw Nutrition has developed Mycomaster which can analyze mycotoxins in less than 15 minutes. The analysis is reliable and relatively cheaper. Quite a few Mycomasters have already been implemented in India and more are expected to be installed in coming months. For more information, please contact Trouw Nutrition Team.

Conclusions

Mycotoxins continue to pose threat to Indian poultry industry by compromising feed quality and health and performance of broilers, layers and breeders. Quality control measures at feed mill such as analyzing moisture and mycotoxin levels of incoming raw materials will help to accept or reject raw materials. Analysis of feed is warranted only when poor bird performance is reported in the field. Frequent analysis of raw materials is recommended only for aflatoxins and ochratoxins and T-2 toxin analysis can be done case-by-case basis. Taking into consideration the scientific facts, the analysis of poultry raw materials and feeds for DON, zearalenone and fumonisins is not required.

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Duck Farming

Soni Kumari¹, Priyanka Kumari², Archita Singh³

¹Ph.D. Scholar, Division of Animal Genetics, ²Ph.D. Scholar, Division of Parasitology,

³Ph.D. Scholar, Division of Physiology and Climatology, ICAR- Indian Veterinary Research Institute, Izatnagar

Duck farming is very popular and absolutely a lucrative business. Ducks can be raised without water in the same way as chickens are raised. But to get fertile eggs, male ducks and water is essential. Ducks have oily feathers which cover the whole body, so water can't directly enter inside their body. The layer of fat under their skin also prevents them from getting wet. Their legs work as the paddle of a boat. Duck's lips are very strong and with this lip they can eat moss, insects, fish egg, hard snail etc. There are numerous meat and egg productive duck breeds available throughout the world. Peking, Aylesbury, Maskovi, Ruel Kagua and the Swiden ducks are most popular for meat production. Indian Runner is a popular layer duck breed. White and grayish Indian runners are good layers. Khaki Campbell ducks are also very popular breed for high egg production.

Breeding

Water is a must for breeding purpose. Usually ducks don't mate without water. One male duck is sufficient for breeding 10 female ducks. Usually high quality and productive duck breeds start laying eggs at their five months of age. Each egg weighs about 50 to 60 grams. Usually duck eggs take about 28 days to hatch. During the hatching period, sprinkle the eggs with water occasionally (two or three times per week). Refrigerator, lime water or pyrophane can be used for storing the eggs.

Floor Space

Overcrowding ducks can be extremely detrimental to their health, growth or egg production. Providing adequate floor space at each stage of development is basic to successful duck raising.

Age of days	Space/Duck (sq ft)	Age of days	Space/Duck (sq ft)
1	0.31	6	2.28
2	0.62	7	2.48
3	1.10	Developing breeders	2.69
4	1.47	Laying breeders	3.02
5	1.90		

Flooring for Ducks

The smooth skin of ducks is not as tough as that of land fowl, and is more susceptible to injury when ducks are confined on surfaces that are too rough, or abrasive. Slats, wire floors or cage bottoms may cause injury to the feet and legs of ducks, unless these surfaces are smooth, non-abrasive, and free of sharp edges. If wire floors are used, floors for ducklings under 3 weeks should be constructed of 1.9 cm (3/4 inch) mesh, 12-gauge welded wire, attached to a frame designed to keep the wire flat, and minimize manure accumulation. For ducks over 3 weeks, 2.5 cm (1 inch) mesh is best. Vinyl coated wire is preferable, but smooth galvanized wire is satisfactory.

Optimum Temperatures for Ducks

At the time of hatching, ducklings require a high temperature as they are not yet able to regulate their body temperature and must have supplemental heat such as that provided by a brooder. As they grow older they become better able to produce and conserve heat, and regulate their body temperature. The recommended temperatures for ducks at different ages are given below -

Age of Days	°C	Age of Days	°C
1	30	35	13
7	27	42	13
14	23	49	13
21	19	Developing breeders	13
28	15	Laying breeders	13

Lighting

The length of the laying period of ducks can be increased considerably if supplemental lighting is provided. Adding artificial light to extend the daily light period to 14-17 hours, and preventing any decrease in day length, will provide adequate light stimulation for ducks to lay continuously for 7-12 months, depending upon their ability to lay, and other conditions. A light intensity of about 10 lux (1 foot candle) at the duck's eye level is sufficient to stimulate adequate sexual response in both drakes and ducks. In practice, however, breeding and laying ducks are commonly lit to provide 20-30 lux at duck level. Artificial lighting is less important for growing ducks.

Management of Litter and Yards

Ducks drink and excrete more water than chickens. Their droppings contain over 90% moisture so to maintain litter floors in a dry condition there should be regular addition of fresh bedding, on top of the bedding that has become soiled or wet, and when necessary, cleaning out the old litter and replacing it with fresh litter.

Feeders and Waterers

Most feeders and waterers used for other poultry, are satisfactory for ducks, provided sufficient room is allowed for the larger bill of ducks and their "shoveling" eating motion. During their early stages of growth, ducklings eat frequently, much like chickens. Provide about 1 inch (2.5 cm) of feeder space per duck for about the first 3 weeks then reduce gradually to about half this amount so long as there is no crowding at the feed hoppers. Developing breeders requires about 4 inches (10 cm) of linear space per duck.

Trough, can or jar-type waterers can be used so long as the drinking area is wide enough (at least 4 cm) for the duck to submerge its bill. Nipple waterers, if properly adjusted for the duck's height, are also satisfactory. For starting and growing

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ducks, a minimum of about 1 inch (2.5 cm) of linear watering space per duck should be provided. This should be increased to 2 inches (5.0 cm) per duck for developing and laying breeders. If nipple waterers are used, provide 15 nipples per 100 ducks for starting and growing ducks and 20 nipples/100 ducks for developing and laying breeders.

Feed and Water

Ducks generally eat almost all types of food they find edible. If available and affordable, provide nutritionally complete commercially prepared duck feeds. If duck rations are not available, and chicken feeds are, they will serve as a satisfactory substitute. Poultry feed concentrates when fed with grain constitute a nutritionally complete diet and may be a good option. Ducks, like other poultry, do not actually require "protein" but the individual amino acids contained in dietary proteins. When formulating feeds for ducks, primary attention should be paid to meeting the ducks essential amino acid requirements.

Plenty of clean drinking water should be available to ducks at least 8-12 hours per day. In some management systems it is advantageous to shut off feed and water at night to help maintain litter inside buildings in a dry condition. During periods when temperatures are above 90°F, drinking water should be available in the evening until the temperature has dropped below 80°F, or else made available all night.

Disease

All the necessary steps should be taken to prevent disease outbreaks in ducks and in cases where ducks do become infected, administering appropriate treatment to minimize mortality and morbidity. Entry of potential carriers of infectious material such as people, trucks, poultry crates and equipment must be denied unless appropriate disinfection measures are taken. Ducks should be immunized against known infectious diseases. Environmental stresses should be minimized which may cause ducks to become susceptible to infections. Ducks are particularly susceptible to certain toxins like Aflatoxin poisoning, Botulism, Castor bean poisoning, and Rapeseed meal. Some of the common diseases of ducks are

1. Duck Virus hepatitis - It is a highly fatal contagious disease of young ducklings, 1-28 days of age. The onset of the disease is very rapid, it spreads quickly through the flock and may cause up to 90% mortality. To prevent this disease, breeder ducks should be vaccinated with an attenuated live virus duck hepatitis vaccine (to produce maternally immune ducklings).
2. Duck Plague (Duck Virus Enteritis) - It is an acute, contagious, highly fatal disease and is most likely to affect mature ducks, but is also seen in young ducks. Regular immunization of breeder ducks with an attenuated live duck virus enteritis vaccine provides adequate protection.
3. *Riemerella anatipestifer* Infection - It is also known as *Pasteurella anatipestifer* infection, infectious serositis and New Duck disease. Preventive management and vaccination are effective means of control. Penicillin, enrofloxacin and sulfadimethoxine-orometoprim (0.04-0.08% in feed) are effective in reducing mortality.
4. Avian Cholera - Also called fowl cholera, caused by the bacterium *Pasteurella multocida* is an important disease of domestic ducks, and is an especially troublesome disease of ducks in some parts of Asia. This disease is associated with poor sanitation, and standing water in duck pens.

Good sanitation practices go a long way toward preventing this disease. Sulfadimethoxine-orometoprim (0.02-0.04%) and Chlorotetracycline (0.044%), given in feed are effective treatments.

5. Colibacillosis - This disease causes reduced hatchability, infection of the yolk sac, a septicemia in ducks 2-8 weeks of age and salpingitis and peritonitis in breeder ducks. Good sanitation and management are important preventive measures. Sulfadimethoxine-orometoprim (0.04-0.08%) and chlorotetracycline (0.044%) in feed are helpful in controlling this disease.

Advantages of Duck Farming

There are numerous advantages of starting duck farming business. You can raise ducks in both commercial and small scale meat or egg production purpose. Even, you can raise some ducks on your own backyard with other birds or animals.

- Ducks need less expensive and simple housing facilities so housing costs are very less for setting up commercial duck farming business.
- Ducks are very hardy bird, need less care or management and are resistant to many avian diseases. They can adopt themselves with almost all types of environmental conditions.
- Ducks lay about 40-50 eggs more than chicken and are 15-20 grams larger than chicken eggs. They lay eggs either at night or in the morning so fresh eggs can be collected every morning and farmers can do other work during rest of the day.
- Comparatively less space is required for raising ducks. They have shorter brooding period and ducklings grow faster. They have less mortality rate and usually live longer than chickens. They have a profitable life as they also lay economically in second year, it reduces the cost of replacement.
- Ducks can be raised with a wide variety of foods. A duck's regular food includes cassava, copra, corn, rice, fruits and any other low cost and easily available foods. They also have the natural tendency of foraging on aquatic weeds, algae, green legumes, fungi, earthworms, maggots, snails, various types of insects etc. which directly reduce feeding cost.
- Marshy river side and wet land are excellent quarter for duck farming where chicken or other types of livestock will not flourish. Cannibalism and agnostic behavior which is very common in chicken is not usually encountered with ducks. Ducks are suitable for integrated farming systems, such as duck cum fish farming.
- Duck products such as eggs and meat have a great demand in the local and international market. So commercial duck farming business can be a great source of earning.
- The down and small body feathers of the ducks are valuable and used for different industrial purposes. Ducks are good exterminators of potato beetles, grass hoppers, snails and slugs.

However, for making maximum profits from duck farming business, farmers have to be more careful on taking care of ducks, feed management, accommodation, brooding and marketing. If all the processes are done well then one can make a handsome income from this business. Duck farming business can also be a stable employment source.



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Maternal Immunity in Birds

Dr K.L. Revappa, Dr S.K. Maini and Dr Suresh Sharma

Vaccine Division, Vesper Pharmaceuticals, Soleddevanhalli, Bengaluru

Maternal immune protective factors transferred across the placenta, colostrum or eggs from mother to offspring's play a key role to protect the new born against pathogenic attacks. This protective action is called "Maternal Immunity", which was first described in mammals and birds more than 100 years ago, (Eirlich, 1892).

The maternal immunity has been reported in a broad range of vertebrates such as mammals, birds, reptiles, fishes and as well as invertebrates such as insects, shrimp and amphibians (Zhang *et al.*, 2013).

In case of birds passive immunity has a relatively short duration, commonly 1 – 2 weeks and generally less than 4 weeks and its function is to protect young ones during a period of first few weeks when their immune system is not fully developed to react themselves to an early challenge by any pathogen.

Major components of maternally derived immune protective factors are immunoglobulins (Igs). In mammals, maternal Igs are transferred to foetus and the new born through placenta and breast milk respectively. In birds, maternal Igs are incorporated into egg yolks and transferred to the embryonic circulation through yolk sac membrane of the developing embryo.

Out of the three Ig classes in birds (IgA, IgM and IgY) only IgY (as the chicken IgG molecule is longer than the mammalian IgG, the chicken IgG is referred to as IgY), is actively transferred into the egg yolks, which suggest existence of a selective IgY transport system in maternal ovary (Atsushi Muroi 2013). Functionally, IgY is generated mainly in secondary antibody responses and behaves like mammalian IgG. IgY concentration is the highest in serum among the three classes of Igs. Molecular analysis of IgY has indicated that IgY is the evolutionary progenitor of both mammalian IgG and IgE, (Warr *et al.*, 1995).

The IgA and IgM are mainly found in the albumin. (Rose *et al.*, 1974) and they are transferred to the albumin as a result of mucosal secretion in the oviduct more specifically in the magnum.

Determination of IgY concentration in yolk and blood provides us insight into the existence of selective IgY transport mechanism in ovarian follicles of birds. The concentration of IgY in egg yolk of chicken has been measured by many investigators and it varies from 1 to 25 mg/g of yolk (Patterson *et al.*, 1962; Rose *et al.*, 1974). It seems likely that scattering of the yolk concentration data is caused by multiple reasons including differences in strains of chicken (Gross and Siegel, 1990) and fluctuation in concentration of blood plasma IgY in the hen. However regardless of strain of chicken the blood IgY is concentrated to some extent in egg yolks of chicken and importantly the IgY concentration of yolk plasma fraction were found to be 1.7 fold higher than the blood plasma. The transfer of IgY through the ovarian follicular epithelium reaches its maximum 3 to 4 days prior to ovulation.

The IgY is transferred from the egg yolk to the offspring via the embryonic circulation. The transfer starts from the day 7 of embryonic development and reaches its maximum 3 to 4 days before hatch. The amount of IgY transferred to the egg yolk and from the egg yolk to the embryo has been reported to be proportional to maternal serum IgY concentration. In a work done with anti-NDV antibodies, Hamal *et al.*, (2006) reported that 27 – 40 % of the hens IgY was transferred to the progeny and it directly related to the titers in the hen. Further, they reported that the transferred anti Newcastle Disease virus antibody recorded the highest level in chicks plasma at 3 days of age then decreased considerably by the 7th day of age to vanish by 14th day of age in meat type of commercial chicken (broilers).

Protection of the young ones by maternal antibodies has been reported in many viral diseases of poultry, Gharaibeh and Mohmoud (2013) studied decay of maternal antibodies in broiler chicken. They measured maternal antibody titers by ELISA for avian encephalomyelitis virus (AEV), avian influenza virus (AIV), chicken anemia virus (CAV), infectious bursal disease virus (IBDV), infectious bronchitis virus (IBV), infectious laryngotracheitis virus (ILTV) and reovirus (Reo).

Half-life estimates of maternal antibody titers were 5.3, 4.2, 7.0, 5.1, 3.9, and 4.7 days for AEV, AIV, CAV, IBDV, IBV, ILTV and Reo respectively. The statistical analysis revealed significant differences among half-lives of maternal antibody titers against certain pathogens. Furthermore, all maternal antibody titers were depleted by 10th day of age except for IBDV.

IgA and IgM are transferred to the embryo by absorption of the albumin by embryonic gut and may have its major function in the newly hatched chick as a protective Ig in the alimentary tract or as an additional source of protein. The amount of IgA and IgM transferred to the progeny is less than 1% of the concentration of those Ig's in the hens plasma, (Hamal *et al.*, 2006).

Vaccination program of the chicks in the poultry industry are highly variable based on the different factors, maternal immunity is one of those factors. Vaccination with live vaccine while having a high level of maternal antibodies leads to vaccination failures and neutralization of live vaccines, (Al-Natour *et al.*, 2004). The level of maternal antibody decay and its half-life time is an important information for designing a suitable vaccination program, for active immunization of the birds.

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More Reference can be provided on request.

Winter Maintenance for Poultry Houses

Chris Schalk

Barren County Agriculture Extension Agent, University of Kentucky Cooperative Extension Service

With colder weather on the way, poultry producers will have an increase in fuel costs to maintain poultry house temperatures. There are several things that you can do to minimize these expenses. University of Kentucky Poultry Extension Project Manager, Jacquie Jacobs offers these tips.

1. House tightness

For equipment to efficiently maintain the required in-house environment, it is important that the house has no leaks. Complete pressure checks to identify problem areas. To conduct a pressure check, close all doors, vents, fan shutters, etc.; turn on one 48-inch fan; and then check the static pressure. A house needs to be able to pull a 0.12 (inches water) static pressure. If your house does not pull 0.12, here are some things you can do to tighten up your house: Cinch curtains up tight with curtain laps over the tops and lumber strips at the bottom. Patch all holes in the curtains. Seal all leaks in the side and end walls with caulk or spray foam insulation. Maintain seals around doors and vents. Thermal imaging or smoke testing houses will help find leaks.

2. Fan maintenance

You should routinely check fans between flocks to ensure that belts are tight and shutters are clean and properly operating. Make sure the fan blades are clean. Grease any bearings as needed. Replace worn fan belts and repair bent shutters and any others that do not close.

3. Vent maintenance

Vents routinely cycle open and closed during the winter months. Check the status of the cable or rod systems, pulleys, insulation on the back of the vent doors, vent hinges, as well as the gears and fittings. Make sure vents close tight.

4. Heater maintenance

A heater that is not properly operating is wasting fuel. Check that the burner and pilot orifices are not plugged, that direct spark igniters will fire, that regulators are properly operating and the pressure. If the system is operating at too low pressure, check all plumbing fittings for leaks. Make sure that the defectors are in place so that heated air is directed to the correct location.

5. Correct placement of thermostats for heaters and fans

Placing the heater thermostats by fans will result in the heaters continuously running. Similarly, placing fan thermostats in the path of hot air for heaters will keep the fans running. Every time you enter your houses, check to see which fans are running. If the same fans are running every time, you may have a problem.

6. Insulation maintenance Even with solid sidewall houses, there are two places in every house that are nearly always subject to heat loss – the tunnel inlet and fans. It is difficult to add insulation to the tunnel inlets because they have to be left so they can operate during emergency situations. Tunnel doors that properly seal are a great remedy to the problem

Source: Jacquie Jacob, UK Poultry Extension Project Manager

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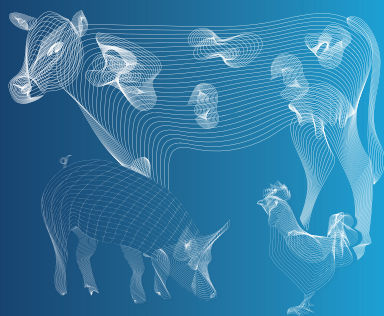


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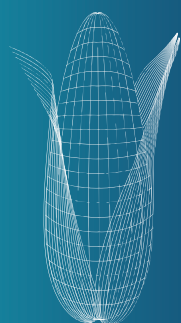
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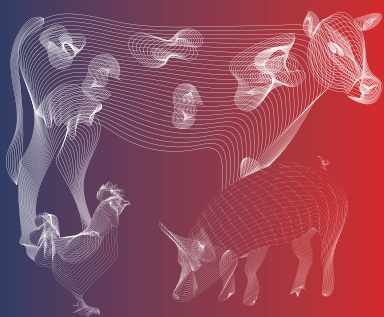
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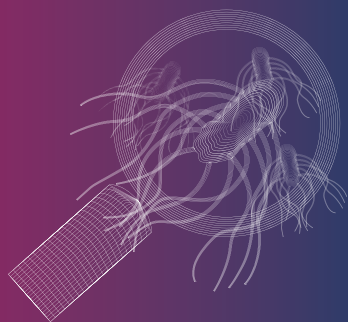
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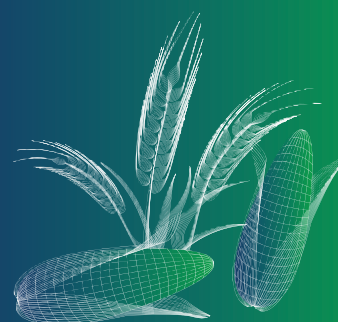
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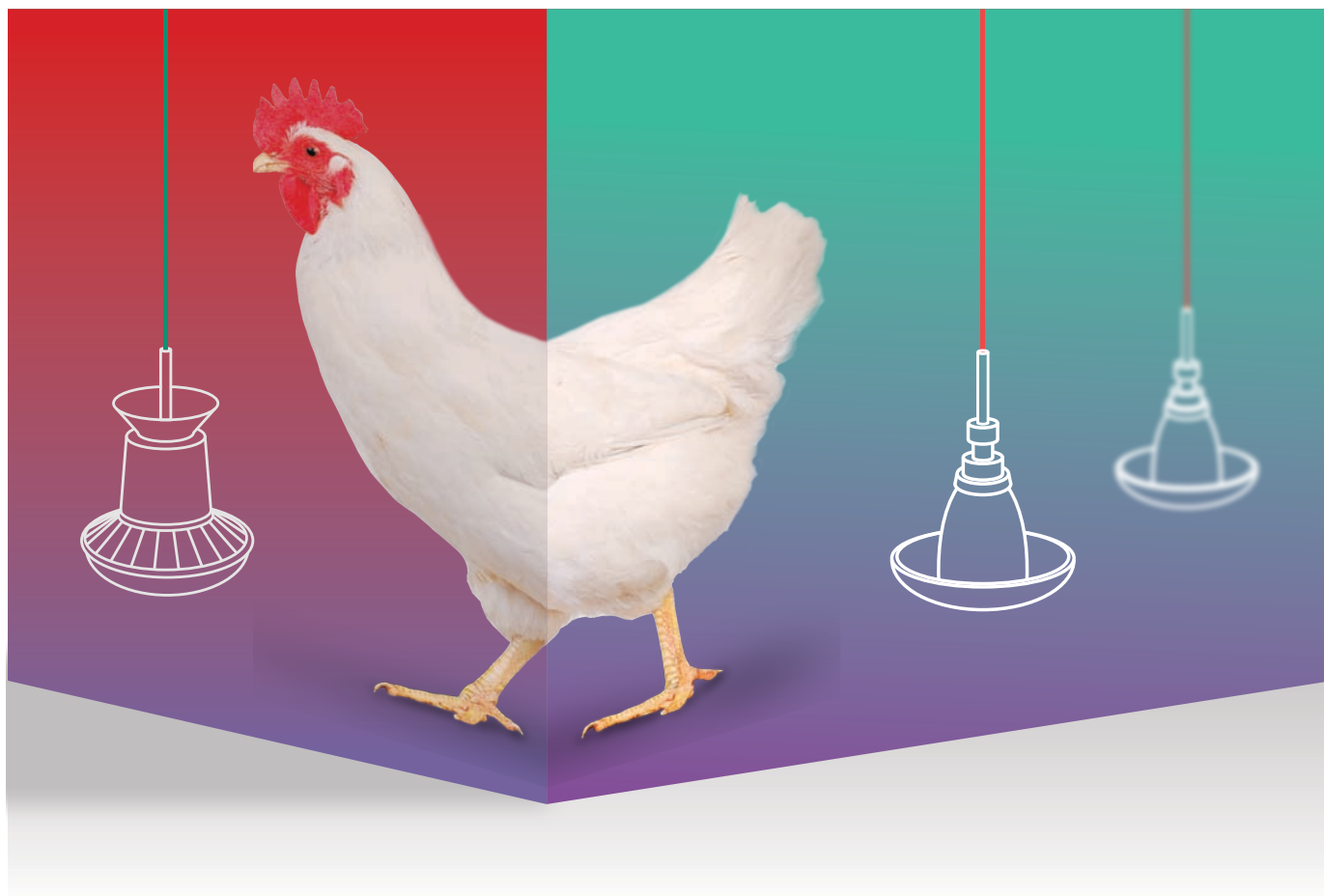
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