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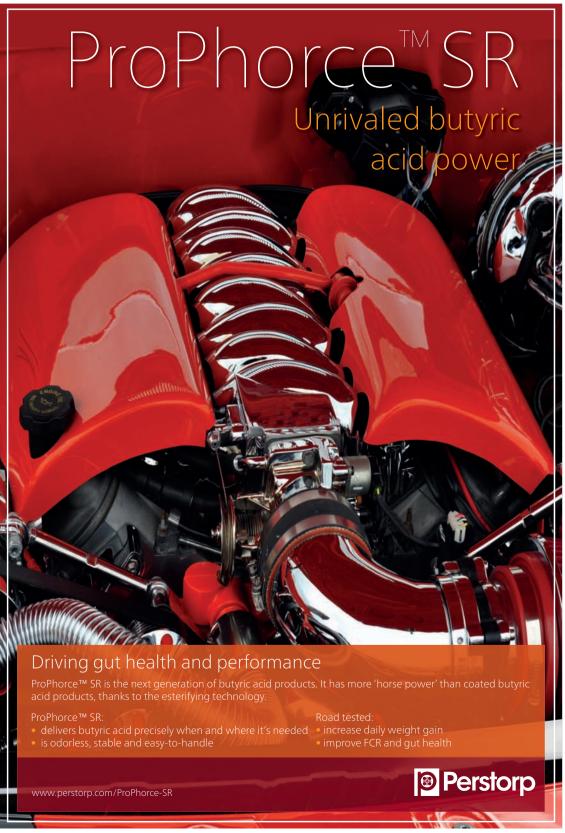
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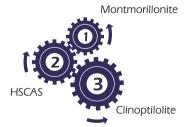
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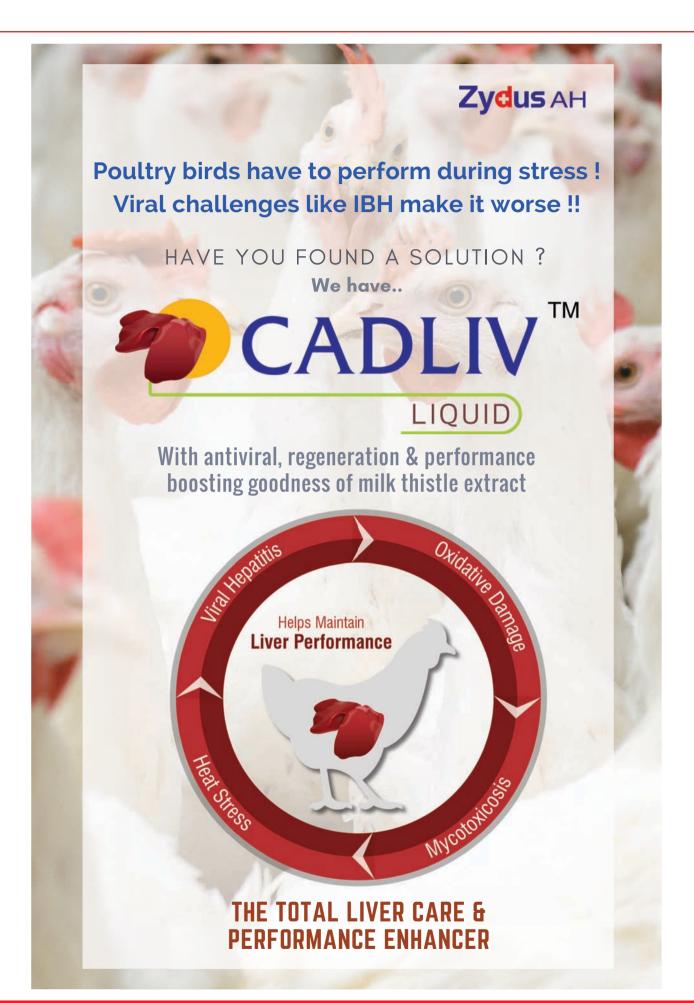
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Poultry Fortune

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- Editor



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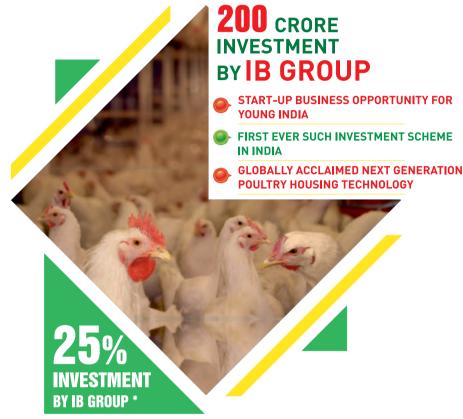
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Light duration influences body weight profiles



Dear Readers, The February 2020 issue of *Poultry*

Fortune is in your hands.

In the News section, you may find news about

New Fermentation

Plant Worth 150 Million Euro from Biovet and Huvepharma opens its doors in Bulgaria. The new fermentation plant from Biovet officially opened its doors recently. The overall investment adds up to 150 million euro made over a period of less than 2 years.

The company is part of the Huvepharma Group, the leading European producer in feed additives, enzymes, probiotics and API's for industrial animal husbandry. The Bulgarian company Huvepharma is a global pharmaceutical leader, focused on the production of humanitarian and veterinary medicaments, successfully offering its products in more than 100 countries worldwide.

107th Indian Science Congress, an annual mega event was inaugurated by Prime Minister Mr Narendra Modi, on 3 January 2020 at Gandhi Krishi Vignana Kendra (GKVK) campus, University of Agricultural Sciences, Bengaluru. Dr Mahesh P.S. Director, CPDO & TI as an invited Speaker presented a talk at Indian Science Congress on the topic "Meeting human Protein needs through Poultry".

In December 2019, EW Nutrition has officially launched Axxess XY, a novel, intrinsically thermostable xylanase enzyme that delivers top performance to feed producers and the livestock industry. The revolutionary product was launched at a customer-centric circuit event across five locations in India.

Kemin built 10 houses for the flood-affected families in Kattapana, Kerala on January 7, 2020. The keys for the houses were handed over to the families in the presence of Mr George Joseph (VP Operations), Mr Sreejith Janardhanan (VP Finance & Company Secretary), Mr Devendra Dixit (Director-HR) along with members from the Habitat for

Humanity Organisation, Chairman-Kattapana Municipality, Municipal Councilor and all the other localities who have been working in Kattapana since the last August floods in Kerala.

In the articles section, article titled - Role of Exogenous Enzyme in Broiler Chicken.

Poultry industry is facing some challenges due to high costs of conventional feed ingredients like vellow corn and soybean meal. These feedstuffs are mostly used in poultry diet. The feed represents about 60-75% of the total cost of animal production. Due to Increase in the prices of poultry feed ingredients there is an urgent need for nutritious and affordable feeds for poultry. Therefore, the wastes of fruits and vegetables after harvesting and handling could be used as alternative sources of energy, protein, amino acids, vitamins and other nutrients in feeding poultry. But the inclusion of feed ingredients containing anti-nutritional factors may adversely affect poultry performance. Supplementation of commercial enzymes can enhance the nutritional value of crops containing high contents of soluble nonstarch polysaccharides (of NSP's).

An article from Srinivasa Hy-line discussed in the article titled "Effects of Growing Period Lighting Programs on Laying Performance" that Lighting programs are one of the key management tools in determining layer hen growth and laying performance. Light duration influences body weight profiles from hatch throughout the grow and until the hen reaches mature body weight in the lay period. Lighting programs also have a strong impact on the onset of sexual maturity, egg weight and production performance.

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

M.A.Nazeer Editor & Publisher 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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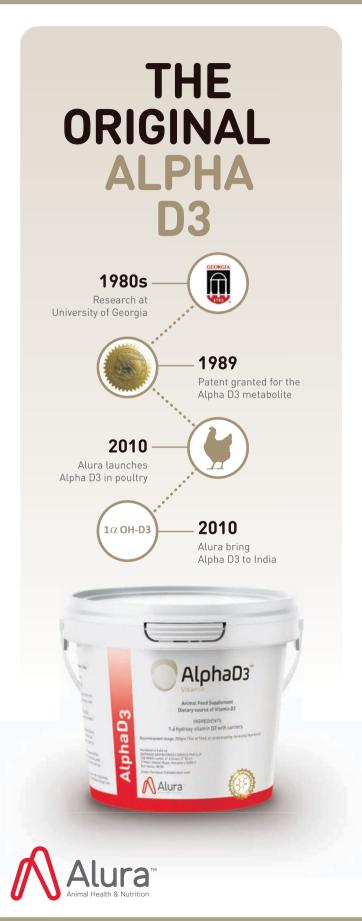
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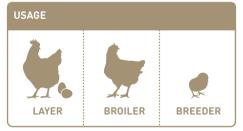


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Meeting human Protein needs through Poultry – an invited talk at 107th Indian Science Congress - 2020, Bengaluru

107th Indian Science Congress, an annual mega event was inaugurated by Hon'ble Prime Minister of India, Sri Narendra Modi, on 3rd January, 2020 at Gandhi Krishi Vignana Kendra (GKVK) campus, University of Agricultural Sciences, Bengaluru.



Dr Mahesh P.S. Director. CPDO & TI as an invited Speaker presented a talk at Indian Science Congress on the topic "Meeting human Protein needs through Poultry". In this presentation, Dr Mahesh elaborated on present context of Global Burgeoning population putting a stress on need of food for the large human population on the globe. It was narrated that Scientists should produce for the next 40 years which was being produced for the last 8,000 years of agriculture. The global population has spiked from 2 billion in 19th Century to almost 9 billion in the present century.

India with a three trillion economy, with young population of 65% touching 1.35 billion population is a growing economy with agribased attractive markets. Indian Animal Husbandry sector poised for a sustained growth has been No. 1 in " Milk Production (190 MMT)" No. 3 in egg production (90 billion eggs) and No. 5 in Chicken Meat production (4.5 MMTs) globally. The contribution from Animal Husbandry sector is estimated to be about 12 lakh crores with poultry contributing nearly 1.2 lakh crores to the GDP.

Indian food habits over the years have gone for a paradigm change with a more focus on carbohydrate centric diet, making more than 70% population as protein-deficient. A slide depicting what India has ordered from a private food aggregator was shown. It was well established that 2 million orders were placed from a single online app per day. Interestingly, Chicken Biryani topped as a most ordered food along with Chicken Fried Rice and Mutton Biryani in the list of consumer preferences. This is an indication as a tip of the iceberg of increased focus on quick foods over planned diet.

Human body consists of 60% as water, 20% as fat and 20% as protein elements other than the trace minerals etc. An adult individual, as per the scientific recommendation is required to consume 0.8 - 1.0 gm per kilo body wt. as a mandatory daily protein requirement. However, most of the Indian diets are not suited to meet this. Dr Mahesh in his presentation showed the diet of Michael Phelps, World Swimming Champion, Usain Bolt, the fastest man on the earth



Dr P.S. Mahesh, Director, CPDO & TI

and Hima Das, the Golden Girl of India making chicken and egg as their staple diet. Chicken and Egg are products of poultry sector produced from agricultural products namely Corn and Soya. An egg weighing 50 - 55 gms would yield minimum of 6 gm protein as a complete protein supplement for an adult. Every 100 gm of egg (2 eggs per day) consumed could supplement 12.56 gm of protein daily. Similarly every 100 gm of chicken (2 chicken piece per day) could supplement 18.6 gm of protein daily. As per the International Egg Commission, Egg is the only protein source with 97% protein true digestibility in the body.

During the talk, Dr Mahesh narrated the egg consumption of Mexico (360+), Japan (340+), USA (270), UK (200), Iran (180) and India at 80 - 85 per capita egg consumption as of 2018 (Intl. egg commission). An interesting observation was also narrated about Bengaluru's daily egg requirement being 80 lakhs eggs per day for the 1.2 crore population. A statement was made in this regard as Bengaluru is USA in India (270 eggs).

Further, Dr Mahesh narrated Indian Poultry Sector

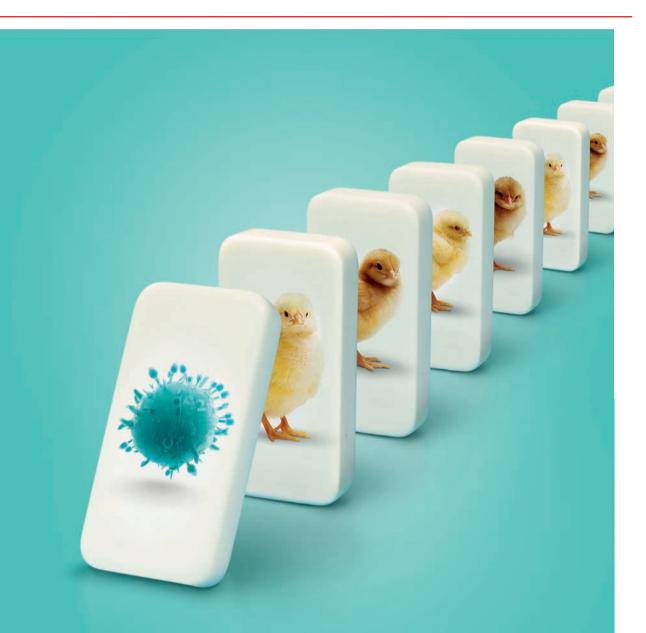
producing 1.1 crores broilers per day and 26 crores eggs per day with an year on year growth of 8 – 10 percent in broilers and 4 – 6 percent in layers. The trends in the market being broiler could attain 2 kilo body wt. at 32 days with an efficient FCR of 1.4 – 1.5, layer bird being an efficient producer of 330 eggs with a slim body wt. of 1.3 kilos annually.

In the presentation, the lessons from the other sectors were shown as an example for marketing poultry produce. The success of branding in Atta, Corn snacks, potato snacks, coffee, tea and the branding of Amul was well narrated. The trend-setters in the poultry sector namely Licious, Fresh to Home, Nandu's, Happy Hen Farms, Suguna Fresh, Venky's Express etc., are the leading examples of success in marketing poultry produce.

The present day generation spends 2.5 hrs daily in Social Media and 1 hour 11 minutes in youtube as per the report in Economic Times. The Tik-Tok is the most downloaded app in the present times against youtube. Poultry sector need to catch this and create ads in these social media platforms. It was advised that. Poultry sector can focus on corporatization

Contd on Page 24





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EW Nutrition Launches Top-Performing Bacterial Xylanase Enzyme at Indian Customer-Centric Event



In December 2019, EW
Nutrition has officially
launched Axxess XY,
a novel, intrinsically
thermostable xylanase
enzyme that delivers
top performance to feed
producers and the livestock
industry. The revolutionary
product was launched at
a customer-centric circuit
event across five locations
in India.



In its effort to improve animal gut health, control toxin risk, and reduce antibiotic use, EW Nutrition has long supported the Indian livestock industry with its holistic, science-backed solutions. The company is now entering a highly competitive market with a revolutionary solution: Axxess XY. This enzyme comes with the highest level of intrinsic

thermostability and is active against both soluble and insoluble arabinoxylans. The top benefit of Axxess XY is an unparalleled flexibility in feed formulation, resulting in significant feed cost savings.

The mechanisms and derived profits of the new product were discussed during a five-city customercentric event titled "GURU SPEAKS", part of EW Nutrition's "Partners in Progress" series. The key speaker was Dr Craig Nelson Coon, Head of the Department of Poultry Sciences at the University of Arkansas, USA. Dr Coon has over 50 years' experience in research and teaching in poultry science.

Dr Shirish Nigam, Managing Director of EW Nutrition South Asia, and Dr Ajay Awati, Global Category Manager, Enzymes, highlighted Axxess XY's unique value proposition and shared various trials conducted to prove the competitive advantage over other enzymes available in the market.

Dr S. Mahendran, Regional Technical Manager, South Asia threw light on feed formulation optimization and explained how the addition of Axxess XY can help release additional energy from feed, which results in optimum performance and production.

The unparalleled thermostability of Axxess XY became a talking point among the audience and various integrators showed their interest in using the new enzyme in their formulations. Also, EW Nutrition's efforts to bring everyone together on a knowledge-sharing platform was highly applauded by the attendees. Industry partners also iterated the need for more detailed sessions in future.



The "GURU SPEAKS" series was a great opportunity to reach to a wider array of breeders and broiler integrators across India. The event was kick started on 16 December, 2019 at Karnal, followed by Coimbatore, Hyderabad, Pune and Bangalore. Prof. Coon shared relevant and practical solutions to the common challenges faced by broilers and broiler

breeders. He also shared his insights on nutrition and management of modern broiler breeders, and highlighted that maintaining the protein balance is now a days gaining more importance than energy requirements for better production and performance of birds. He deliberated on pros and cons of current feeding



practices and management, including biosecurity and lighting schedules for birds.

Major key stakeholders – technical consultants, university professors, farm managers, integrators etc. – attended the series and benefitted from the information provided during the event.

"We are pleased to bring our revolutionary enzyme solution to our Indian partners, thus enriching our portfolio of products and services to the benefit of the local livestock industry," says Michael Gerrits, Managing Director, EW Nutrition. "We are confident that Axxess XY will be a break through for our customers, and we look forward to providing and servicing our comprehensive animal nutrition solutionsin India, a most valuable and respected market."



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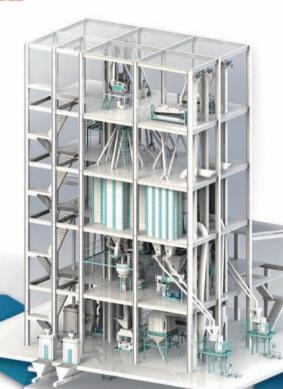












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New Fermentation Plant worth 150 million euro from Biovet and Huvepharma opens its doors in Bulgaria



From left: Mr Tsvetan Simeonov, President of Bulgarian Chamber of Commerce and Industry, Dr Boyko Takov, Executive Director of Bulgarian Small and Medium Enterprises Promotion Agency, Her Excellency Mrs Eleonora Dimitrova, Ambassador of Bulgaria to India, Mr Lyuben Kanchev, Deputy Minister of Tourism, Mrs Mariyana Nikolova, Hon'ble Deputy Prime Minister of Bulgaria for Economic and Demographic Policy, Mr O.P. Singh, Managing Director, Huvepharma SEA.

The new fermentation plant from Biovet officially opened its doors recently. The overall investment adds up to 150 million euro made over a period of less than 2 years.

The company is part of the Huvepharma Group, the leading European producer in feed additives, enzymes, probiotics and API's for industrial animal husbandry.

The Bulgarian company Huvepharma is a global pharmaceutical leader, focused on the production of humanitarian and veterinary medicaments, successfully offering its products in more than 100 countries worldwide.

For the official opening ceremony, in attendance were, the Prime Minister of the Republic of Bulgaria, Mr Boyko Borisov, the Minister of Economy, Mr Emil Karanikolov, the Minister of Finance, Mr Vladislav Goranov, the Minister of Environment and Water, Mr Neno Dimov, the Chairman of the Energy Committee in the 44th National Assembly, Mr Valentin Nikolov, Mayor of Peshtera Municipality, Mr Nikolay Zaichey, Regional Governor, Stefan Mirev and many representatives from the central and local authorities.

This project is part of the Huvepharma growth strategy, as a pharmaceutical company based in the European Union, operating on a global scale. The support of EIB, gave the company the opportunity to speed up its investments in Bulgarian

production and scientific research and development, thus concreting the plans for further developing a fully integrated company with production facilities located in the European Union with sales on global markets.

The new Fermentation plant is designed and built based on the company's more than 60 years traditions, experience, knowledge, adhering to all the principles of versatility and flexibility, using state-of-the-art equipment and technologies, and applying industry best practices and techniques.

The project was completed on green field, within 22 months and includes: a fermentation capacity of 3,500 m3 and workshops for processing and formulation of the products.

The complete energy system for the power supply includes electrical substation, production of steam and compressed air as well as the production of technical and cooling water.

Huvepharma SEA (Pune) Pvt. Ltd. takes pride in being a part of this global growth story. Huvepharma EOOD has been keen on investing their time and technology in India. Huvepharma SEA has been instrumental in launching Huvepharma's product ranges from time to time. The past couple of years have seen India emerging as one of the first markets to launch many new products from the Huvepharma stable which are unique and with high potential.

Our latest offering to the Indian subcontinent region, such as Hygiene and Disinfection range for biosecurity at various





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stages in poultry, dairy as well as aqua, Dietics range for poultry, Performance boosters and Rumen modifiers for dairy, Intermediates for human medicines etc., are aimed at providing top quality, globally accepted, critically evaluated and regulatory certified products to the market to ensure food safety, traceability and boost customer profits.

Reinforcing strong ties between India and Bulgaria, Mr O.P. Singh, Managing Director, Huvepharma SEA recently had the opportunity to discuss various business issues at The Taj Palace Hotel, New Delhi and interact with the Deputy Prime Minister of Bulgaria for Economic and Demographic Policy, Mrs Mariyana Nikolova, and the trade delegation that she headed on this visit to India, which included Deputy Minister of Tourism, Mr Lyuben Kanchev, Executive Director of Bulgarian Small and Medium Enterprises Promotion Agency, Dr Boyko Takov, President of Bulgarian Chamber of Commerce and Industry, Mr Tsvetan Simeonov, apart from The Ambassador of the Republic of Bulgaria

to India, H.E. Mrs Eleonora

Dimitrova and Minister Plenipotentiary, Head of Trade and Economic Affairs, Embassy of the Republic of Bulgaria to India, Mr Iliya Dekov.

Hon'ble Dy Prime Minister Mrs Nikolova was in India with the aim of identifying new initiatives and establish partnerships to further strengthen links between Bulgaria and India. It is notable that Huvepharma is also the largest Bulgarian business partner with India.

Speaking on the occasion, Mr Singh expressed pleasure and gratitude to the Hon'ble Dy Prime Minister for the Bulgarian Government's continued support and encouragement to the Huvepharma Group in its endeavor to upgrade and expand the production, research and testing facilities which bear a direct impact on the large animal health industry spread across the world. In his address to the esteemed gathering, he said "Food safety and qualitative food production must be supported with all scientific products and services for the Indian consumers ensuring emerging paradigm can be met".

Dr (Capt) Tanweer Alam has taken over the role of Director - Marketing in Kemin Industries South Asia Pvt Ltd



Dr (Capt) Tanweer Alam, Kemin Industries South Asia Pvt Ltd

Dr (Capt) Tanweer Alam has taken over the role of Director - Marketing in Kemin Industries South Asia Pvt Ltd for Monogastric and Ruminant division. Prior to this, he had been handling the Ruminant business in Kemin Industries South Asia.

Being associated with Kemin for more than seven years, he has been able to well segment the market and devise a sustainable go to market strategy for the business to grow. Also, in this period. several innovative value additions have been made in the process to serve the emerging and challenging needs of the target customers. Eventually, this has impacted in transforming the quality of life and profitability of many of their esteemed customers in their operations.

Observing the consumer need-behavior and fore sighting the consumption trend are the passionate

areas of interest for him and that has helped him in devising various differentiating strategies in sync with consumer expectations.

Prior to Kemin, Tanweer was handling the domestic and export business of Natural Remedies in various positions for more than 15 years and besides that, in the past, he also served as a Commissioned Officer in the rank of Captain in Remount Veterinary Corps of Indian Army for five (5) years. The exposure in Army gave him an opportunity to serve in Animal Holding Units and Army Supply Depots in different forward locations.

Tanweer has presented paper/ presentations in various national and international forums for past many years. He was graduated from Patna Veterinary College and had done Post Graduation in Business Administration from SIMS, Pune with International Marketing as Major.

He has professional expertise in animal nutritional management, market segmentation, product differentiation and corporate branding. Also has keen interest in creative writing and public speaking. In leisure times, he loves distance running and playing squash.

Tanweer reports to Dr R. Suresh Kumar, President of Kemin Industries South Asia Pvt Ltd.



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Vietnam, Top Investment Destination in Asia for 2020

ILDEX Vietnam 2020 show preview, Bangkok – Ho Chi Minh City



Vietnam is one of the best investment destinations in Asiaand is the main producer of livestock and aguaculture. Vietnam not only meets domestic consumption, but also exports to many countries. The Ministry of Agriculture and Agriculture and Rural **Development of Vietnam** reported that the livestock and related sectors' exports were worth US\$855.4 million and are expected to reach \$1.2 billion in the next year. According to the Directorate of Fisheries, total seafood production in September 2019 reached 733.5 thousand MT, of which capture output hit 251 thousand MT, and the aquaculture volume touched 328.5 thousand MT. This means that Vietnam is the destination that international stakeholders are interested in to expand their markets throughout Asia, and that's why VNU Exhibitions Asia Pacific, withour strong partner, MINH VI EXHIBITION & ADVERTISEMENT SERVICES CO., LTD (VEAS), will organize "ILDEX Vietnam 2020" to provide an international business platform for the Livestock

and Aquaculture industries. This show will help you to connect with buyers andto find business opportunitiesand will be presenting technology and innovation in equipment, machinery, and IT systems from Animal Feed to Farm Processing all in one place.

The 8th edition of the International Livestock, Dairy, Meat Processing and Aquaculture Exposition, Vietnam (ILDEX Vietnam), is structured to be an international trade exhibition covering many profiles including pig, poultry, dairy, egg and meat processing. Topdomestic and international companies will be presenting their products to top buyers and industry people in Vietnam. For over16 years, we have promoted the Vietnamese

market as a destination for international investors. ILDEX 2018 attracted 1,924 international participants from 40 countries during the 3days of the exhibition with more than 100 successful meeting requests. ILDEX Vietnam 2020 will be held March 18-20, 2020 at Saigon Exhibition and Convention Center, Ho Chi Minh City, Vietnam.

EXHIBITION HIGHLIGHTS ILDEX Vietnam is a biennial International Exhibition focusing on Livestock, Dairy, Meat processing and Aquaculture. The event has proven to be a great opportunity for local and international firms to not only introduce new products, but also get updates on contemporary market trends, see new technology, and acquire new knowledge at the event's extensive seminar programs presented by renowned key speakers. This exhibition builds a market place for both local and international industry

players and professionals to expand their business through a wide range of highlight activities including International Pavilions, the B2B Match making Program, the Hosted Buyer Program and many more.

Mr. Kevin Zhao, Project Manager of ILDEX Vietnam said that "At ILDEX Vietnam 2020, over75% of the total exhibitors are international brands, especially from the "Farm Production" segment. We havemore than 60 of the world's leading manufacturers to showcase their equipment, which is a distinct advantage of ILDEX Vietnam. Moreover, at this edition, we are pleased to welcome lots of new companies who will beexhibiting in Vietnam for the first time and are ready to share their latest products and innovations with the Vietnamesebuyers, such as HUALI, TEXHA, BRODRENE HARTMANN, ROTECNA, INBERG etc. We will host250 leading companies from 30 countries plus 7 international pavilions from the Netherlands, France, the United States of America, China, the United Kingdom, Italy and the Czech Republic. The exhibition hall will be divided intozones



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representing four main industrial sectors, Animal Health, Feed Ingredients/ Additives, Farm Production and Meat Processing/ Handling. A diverse mix of displays and categories will bring leadingstakeholders, manufacturers, importers & exporters and professionalsunder one roof."

CONFERENCE HIGHLIGHTS - 'FEEDINFO'

We [ILDEX] are delighted to announce an exclusive cooperation with Feedinfo, who will be hosting brand new Formulation Briefings at ILDEX Vietnam 2020

Feedinfo's Formulation Briefings have been created specifically for Asaian formulation professionals and nutritionists from feed mills and integrated farms, and will focus on African Swine Fever, alternatives to antibiotics and costeffective formulation.

Simon Duke, Editor-in-Chief of Feedinfo News Service explained: "Feedback by our readers on the Vietnamese market is extremely positive. We know this is a fast-expanding, exciting market and we think the opportunities for companies operating in the region are vast.

With thousands of animal nutrition and feed professionals attending ILDEX Vietnam, we felt the perfect way to begin our partnership with VIV was to create an event for these attendees addressing the biggest challenges they face. This new alliance allows ILDEX Vietnam's industry audience to gain the value of being at one of the region's largest exhibitions, combined with the high-level live content Feedinfo is known for."

The briefings will take place on Thursday 19 March and are free for ILDEX Vietnam 2020 attendees. For more information visit www. ildex.feedinfo.comFor roundtable, speaking and sponsorship opportunities, contact Ben Cronin at ben. cronin@agribriefing.com

Apart from the global conference partner, ILDEX will offer lots of knowledge conferences for all delegates which are organized by many associations such as Vietnam Ruminant Husbandry Association, Ministry of Agricultural and Rural Development (MARD), Federation of Asian Veterinary Associations: FAVA and more.

Meeting human Protein needs through Poultry – an invited talk at 107th Indian Science Congress - 2020, Bengaluru

Contn from Page 14

of sports other than cricket like Football, Badminton, Table Tennis etc., wherein chicken and egg are highly essential to meet the protein requirements of sports persons.

Poultry Sector is aggressive in these years by publishing ads which draw the attention of the consumer by putting full page ads in the leading news papers. The top iconic figures are also hired for branding and marketing. Veterinarians in

Poultry (VIP), an association of veterinarians has set the trend of doing Eggchithon - Walkathon in various metros highlighting the benefits of egg and chicken. The suggestion was also made for use of Artificial Intelligence and Virtual Reality tools in schools to promote benefits of chicken and egg. The presentation concluded with a hope that Niti Ayog in its recent report is exploring for inclusion of Egg, Fish and Meat in PDS.

Egg prices set to drop as exports fail

Production glut accentuates problem as other states reluctant to buy surplus from Hyderabad.

Hyderabad, which has the distinction of being the highest producer of eggs, has gone on to upset farmers, with prices of the produce expected to go down further. "As of now, a poultry farmer is getting a benefit of only 11 paisa per egg," points out the National Egg Coordination Committee (NECC).

"The production of eggs has seen an all-time high," Mr Sanjeev Chintawar, NECC business manager told Deccan Chronicle. Usually, surplus eggs are exported to other states like Maharashtra, Karnataka, Tamil Nadu and Uttar Pradesh.

However, since the respective state governments are promoting their own poultry farmers, the city has ended up with surplus egg production. "Since there is no one who

"Since there is no one who is willing to import eggs, they are being sold at cheaper prices in the local

markets," Mr Chintawar remarked. The prices would have further crashed had it not been for the state government including eggs in the mid-day meals and Anganwadi schemes.

Just last week, egg prices rose to `4.62 per egg compared to `4.03 the previous week. However, with the glut in production, egg prices are expected to fall against the background of other states not importing eggs from the state.

The overall state per capita consumption of eggs in the state stands at 178, close to the National Institute of Nutrition's recommendation of 180.

Meanwhile, chicken prices have continued to stagnate in the city, selling at `130 per kilogram. However, farmers are hopeful of prices increasing with the onset of summer, as birds are likely to be culled following illness.











A early chick nutrition For that dream start

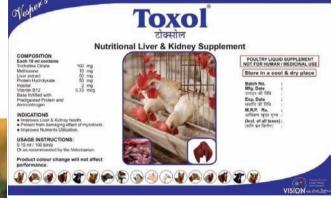


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Advances in Poultry Science for One Health

Venue: ICAR-NIANP, Bangalore

Date: 28th Feb, 2020

Speakers-International & eminent experts from India

World Veterinary Poultry Association (India)

The World Veterinary Poultry Association is a global professional association for poultry veterinarians and other avian health professionals.

The Objectives of the Association are:

- To organise meetings for studying diseases and conditions relating to the avian species
- To encourage research in this field
- To promote the exchange of information and material for study between individuals and organisations in the avian species
- To establish and maintain liaison with other bodies with related interests

| Registration Details: | Online Registration | On-site Registration | |
|-----------------------|---|----------------------------|--|
| | 16 th Jan to 28 th Feb, 2020 | 28 th Feb, 2020 | |
| Students | ₹ 800 | ₹ 1000 | |
| WVPA Members | ₹ 1200 | ₹ 1500 | |
| Non Members | ₹ 2000 | ₹ 2500 | |

For more details, please login to www.wvpa.in www.wvpaindiaconference.com

Participants:

- Students related to Poultry Research and Management
- WVPA Members
- Poultry Professionals and related to the poultry industry

- Numbers of Posters to be accepted: 100
- Travel grant for Students: (if abstract is accepted), by sleeper class Railway Ticket + Registration and Accommodation
- Awards and Recognition for top 20 abstracts based on quality of research
- Last date for submission of Abstract: 15 February 2020

Annual Membership Fee: ₹ 2500/-

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Life Membership (on invitations based on contribution and involvement)

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Kemin's New Year Resolution

Towards Excellence through 5S in 2020



Devendra Dixit (Head, HR) signing the 5S pledge along with other employees

Kemin's new year resolution -Towards Excellence through 5S in 2020

In our continuous efforts to make the corporate office more efficient and vibrant, Kemin launched 5S process at our Ambattur (India) office. The launch event was facilitated along with our knowledge partner, TVS Training and Services Ltd. on 23rd December 2019. We believe following the principles



Gopal Pillai from TVS Training and Services Ltd. inaugurating the event

of 5S allow us to evaluate our current workspace and supplies, identify waste, and ultimately create an environment where employees can do their work efficiently, sustainably and have the supplies they need in an easily accessible place.

What is 5S?

The 5S system is a lean manufacturing tool that improves workplace efficiency and eliminates waste. There are five steps in the system, each starting with the letter S:

- Sort
- Set in Order
- Shine
- Standardize
- Sustain

By providing a systematic framework for organization and cleanliness, 5S helps facilities to avoid productivity loss from delayed work or unplanned downtime. 5S defines the steps that are used to make all work spaces efficient and productive, help people share work stations, reduce time looking for needed tools and improve the work environment.

By utilizing 5S we can



Honouring Mr Sasidharan member from TVS Training and Services Ltd

improve efficiency by eliminating the waste of motion looking for tools, materials or information along with an improved safety and morale due to improvements in the work environment.

It is not just a way to tidy up the workplace but a powerful system to organize, visualize, maintain and improve the workplace with an increase in safety, quality and productivity as immediate benefits and helps to create continuous improvement. Through this we aim at raising our standards of workplace practices - change for better, enabling personal and professional excellence.



Honouring Mr Srinivasa Raghavan-TVS Training and Services Ltd



Employees taking the 5S pledge





Other pictures from the event



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Kemin helps rebuild God's own country-Kerala



Handing over the keys to the families

Kerala: Kemin built 10 houses for the floodaffected families in Kattapana, Kerala on January 7, 2020. The keys for the houses were handed over to the families in the presence of Mr George Joseph (VP Operations), Mr Sreejith Janardhanan (VP Finance & Company Secretary), Mr Devendra Dixit (Director-HR)along with members from the Habitat for Humanity Organisation, Chairman-Kattapana Municipality,

Municipal Councilor and all the other localities who have been working in Kattapana since the last August floods in Kerala. In the year 2018, the torrential rains causing floods and landslides affected the lives of thousands of people. In consequence to this natural calamity, several people who had been directly affected were in need of rehabilitation facilities. Kemin immediately





Newly built home by Kemin

sprang into action and invited contributions from employees. With the initiative taken that time, the overall collection has helped us build 10 homes. Kemin has always demonstrated its responsible corporate citizenship globally and

is committed to serving meaningful causes in the community that we live in. In the same sense of responsibility and commitment, we have established "Kemin Kerala Flood Relief Fund". Thank you, colleagues, in our strive to bring back Kerala to its shine as God's Own Country.

Nouriture by Anmol Feeds bags the Times Business Award



Mr Amit Saraogi, Managing Director & Mrs Deepali Saraogi, Director of Anmol Feeds Pvt Ltd receiving the award from Mr Chandra Shekhar Ghosh, CEO & Managing Director of Bandhan Bank.

Kolkatta: Nouriture by Anmol Feeds Pvt Ltd bagged the Times Best Livestock Feed Manufacturer towards Contribution to Rural Entrepreneurship award on the occasion of Times Business Award Kolkata 2020 at J W Mariott Hotel Kolkata on 16th Jan. Mr Amit Saraogi, Managing Director & Mrs Deepali Saraogi, Director of Anmol Feeds Pvt Ltd were present to receive the award during the glamorous function which also boasted the presence of actress Bipasha Basu, Mr Chandra Shekhar Ghosh, CEO & Managing Director of Bandhan Bank along with a host of other business and film personalities.

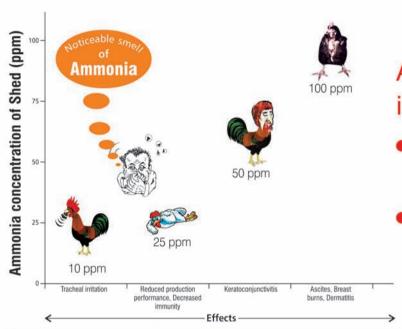
Times Business 2020 Award is the 3rd edition of the award night organized by The Times of India Group where in the stalwarts of the business conglomerates come together, felicitate the upcoming start up business, established brands and also the semi corporate and service sectors for their immense contribution to the business sector and growth of the state & the country.



From left: Kushal Agarwal, Rashika Jain, Deepali Saraogi, Amit Kumar Saraogi, Chandra Shekhar Ghosh, Arun Kothari, Girish Kumar Khaitan and Aditi Dey.

AmmoFree Premix

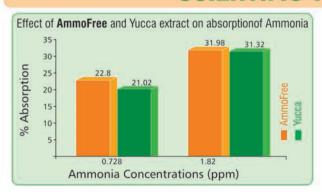
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- Noticeable smell and eye irritation
- Upto 25% reduction in growth and production

SCIENTIFIC VALIDATION



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

| Group | Body Weight (g) | FCR | Livability (%) | Birds showing respiratory | Faecal NH ₃ (g/kg dry faeces) | |
|----------------------|-----------------------|------|-------------------|---------------------------------|--|-------------------|
| | (9) | | | discomfort | Day 21 | Day 42 |
| Control | 1921 | 1.85 | 95.00 | 7 | 3.86 | 3.92 (+1.55%) |
| AmmoFree 100g/ton | 1927 | 1.82 | 96.67 | X | 3.95 | 2.71 (-45.75%) |

USAGE

- For minimising the level of atmospheric and systemic ammonia and other noxious gases.
- To create healthier living conditions, reduce stress levels and to improve farm environment.
- For enhancing the level of beneficial gut microflora and to reduce disease susceptibility especially intestinal and respiratory diseases.
- For better farm productivity and profitability.

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PRESENTATION

1 kg



1 kg

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Technical Update: EFFECTS OF GROWING PERIOD LIGHTING PROGRAMS ON LAYING PERFORMANCE

Lighting programs are one of the key management tools in determining layer hen growth and laying performance. Light duration influences body weight profiles from hatch throughout the grow and until the hen reaches mature body weight in the lay period. Lighting programs also have a strong impact on the onset of sexual maturity, egg weight, and production performance.

In this study, we evaluated the impact of two common light applications on W-80 commercial bird growth and lay performances. The first treatment was the Hy-Line standard step-down (SD) lighting program starting with 20 hours of light during the first week; afterward, the light was decreased each week to reach 12 hours light at 7 weeks. The pullets were held at 12 hours light until 17 weeks of age. The second treatment (24/12) started with 24 hours of continuous light until 7 weeks of age. At 7 weeks the light was reduced to 12 hours and held until 17 weeks. The second application mimics common practice among Indian commercial layer farms. Parameters such as rearing period weekly body weight, age at sexual maturity, and production performance (hen-day %, hen-housed eggs, egg weight) were recorded and compared. Results from the study indicate that the 24/12 lighting program reduces body weight, delays sexual maturity, limits production performances, and in general, limits genetic potential compared to the standard SD program.

TRIAL DESIGN

Hy-Line W-80 commercial strain was subjected to two different lighting practices: SD and 24/12.

- 600 chicks for each group were subject to experiment. Management practices followed the W-80 Commercial Guide for both groups.
- Birds were individually wing-banded at hatch for detailed data collection.
- Pullets were reared in floor-pens.
- No beak trimming was applied.
- During the growing period, bi-weekly body weight and mortality data was recorded.
- During the production period, body weights, mortality, production, and egg weight information was recorded.



Figure 1. Lighting practices used in the study.

RESULTS

Growing Period Body Weights

• 24/12 lighting program: Birds from this group showed a good start for body weights up to 4 weeks of age and

after showed reduced weekly body weight gain.

• Step-down lighting program: The body weight gain in this group was steady and on target compared to W-80 standard throughout the rearing period. Body weights were 49 grams above the 24/12 lighting program birds at 18 weeks.

All results were tested at P<0.05 significance level.

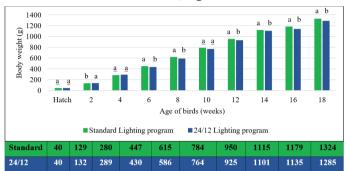


Figure 2. Comparison of body weight gain.

Sexual Maturity

Lighting programs had a significant impact on bird maturity. Birds

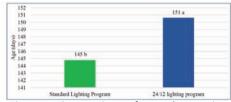


Figure 4. Comparison of sexual maturity.

under the step down lighting program attained maturity 6 days earlier than 24/12 lighting program.

PRODUCTION PERIOD RESULTS

| Hen-Housed Eggs | 18-30 weeks | 40 weeks | 60 weeks |
|----------------------------|-------------|----------|----------|
| 24/12 lighting program | 84 b | 138 b | 269₺ |
| Step-down lighting program | 95 ° | 149 ° | 281 ª |

Onset of lay was six days earlier for birds under the step-down lighting program. By 30 weeks of age, the step-down group had 11 more eggs compared to 24/12 program. At the end of 60 weeks, birds under the step-down lighting program laid 12 eggs more than birds under 24/12 lighting program group.

Egg Weight

Birds with the 24/12 lighting program had 1.3 to 0.5 g heavier egg weight profile starting from the first egg. In both groups, egg weights were higher than the W-80 breed standard.

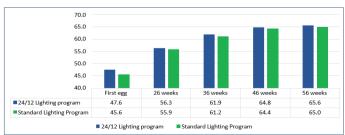


Figure 4. Comparison of egg weight.





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SUMMARY

- This study shows that lighting programs in the growing period have a significant impact on body weight profiles during the rearing period, age of sexual maturity, number of eggs produced per bird, and egg weight throughout the hen's life.
- From the above study, step-down lighting program had good body weight development during rearing period. In the production period, the hens came into production 6 days earlier and by 60 weeks had 12 more saleable eggs than the birds of 24/12 hours lighting group. The heavier eggs with the 24/12 program are likely due to delayed maturity.
- The egg weight profile of the standard lighting program matches the Indian market.

CONCLUSION

Good production performances can be achieved by using the Hy-Line standard step-down lighting program during the rearing period. This program provides good resting time to the baby chicks to establish their circadian rhythm. Therefore, the supported hormone system gives a boost to muscle, bone, and intestinal development. Additionally, there is an energy-saving component by not using 24 hours of artificial light for 7 to 8 weeks. In this study, we kept birds at 12 hours of light to mimic day length; however, in an opensided environment, we recommend no artificial light after 7 weeks, only daylight.

Recommended lighting program for Hy-Line W-80 birds in

| Age in weeks | Lighthours |
|------------------|------------|
| 1 | 20 |
| 2 | 19 |
| 3 | 17 |
| 4 | 16 |
| 5 | 15 |
| 6 | 14 |
| 7 | 13 |
| 8 to stimulation | daylight |

| Age in weeks | Lighthours |
|--------------|---------------------------------|
| 17 | BW=1100g with 85% Uniformity |
| 18 | +1 <u>hr</u> |
| 19 | + 1hr |
| 20 | +1/2 <u>hr</u> |
| 21 | +1/2 <u>hr</u> |
| 22 | +1/2 <u>hr</u> |
| 23 | 15–16 |
| 24 | 15–16 |

open-sided houses in India:

Day lengths vary seasonally (more than 12 hours in summer and less than 12 hours in winter). This seasonal variation may affect the onset of production. When the day length is more than 12 hours during the rearing period, it is recommended to keep the longest day length for the entire rearing period. Light stimulate the flocks once they have 1100 grams minimum body weight with 85% uniformity and only after moving the birds to production houses. In the case of uniformities less than 85%, light stimulate the flock after attaining 1200-1250g body weight.

Srinivasa |



BIOSECURITY ON COMMERCIAL LAYER FARMS

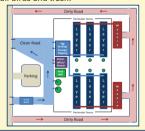
Conceptual Location, Isolation

Poultry farm should be planned in isolated location away from existing poultry farms. Poultry sheds should be back from the road.



Growing and laying facilities should be segregated to avoid spreading of diseases.

Clean Road and Dirty Road should be established.Clean Road for eggs, feed and materials; Dirty Road for manure, cull birds and trash



Cultural Training, Education and Meetings

Educate workers and external crews on the importance of biosecurity. Have a biosecurity plan with written procedures for employees to follow.

Train (and periodically retrain) employees on biosecurity procedures



Structural Lavout, Fences, Gates, Footbaths



Farm should have an entry gate which is locked and supervised

Limit human and vehicle traffic onto



A perimeter fence should surround the poultry sheds to avoid unwanted entry of people and animals



Vehicle washing station for all vehicles entering the farm.



Use dedicated farm vehicles to deliver



Eaas, feed and materials should be delivered at the farm erimeter fence



fencing at bottom of the sheds.



poultrybiosecurity.org



Operational

Daily Routine Procedure

ng external crews and their equipment.



Sign boards and proper traffic flow - to . avoid unwanted entrv



Limit visitor entry onto farm, use office meetings whenever possible. Avoid using external crews for vaccination/beak trimming/moving birds.





Use footbaths with clean disinfectant at each entry of the poultry house.

Limit number of workers inside the sheds for feeding and egg collection.



No outside vehicles allowed inside farm

During depletion, take old hens outside farm gate for pick up.



Water. Use good quality water. Test water source twice annually. Water treat-

Dead bird disposal should be by incineration, burial or compositing

Risk Factors



Rodents can carry and transmit disease to poultry. Provide an effective rodent control program.



Wild birds are carriers of Raniket and avian influenza. Use birdproof fencing on bird



Feed. Use good quality tested feed ingredients Do not re-use feed bags or use bulk feed. Avoid animal source proteins. Routinely clean feed mill and mixer.



infection. Keep manure dry to control flies. Replace leaking nipples and sprayers to keep manure dry. Do not spread manure near poultry farm. Drying and composting



Egg trays. **Trays** returned from outside the farm are dangerous sources of infection. Effective disinfection of egg trays is required. Best practice is paper egg trays that do not eturn to the farm.



Equipment. Use farm-dedicated vehicles for moving eggs, feed and materials inside the farm. Maintain own beak trimming and vac-cination equipment.

Courtesy: Srinivasa Hy-line



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Biomin makes strong impact at Poultry Expo in Hyderabad

By bringing in its experts at the booth to provide services and solutions to the customers, BIOMIN made a strong impact at the exhibition held at Hyderabad.



Biomin made a strong impact at Poultry India 2019

From productive discussions with BIOMIN experts to an engaging fun activity, BIOMIN booth at Poultry India expo was bustling with lot of activities this year. The three-day international expo held at Hitex Exhibition Complex in Hyderabad from November 27 to 29 provided an ideal platform for the innovative animal nutrition company to meet customers and potential customers from south Asia.

The presence of BIOMIN experts: Poultry Technical Manager Andrew Robertson, Regional Product Manager - Animal Nutrition Lesley Nernberg, and Technical Sales Manager - Poultry Gangga Widyanugraha added value to the customers and visitors.

Display of models depicting the Duplex Capsule structure of Digestarom® DC and molecular structure of mycotoxins at the booth facilitated the visitors in getting a better understanding of the BIOMIN products and its mode of action.

"Poultry India 2019 is one of the best events for BIOMIN in India and we are glad we were able to make a vibrant presence here with lot of customer engaging activities," Asia-Pacific Regional Director Edward Manchester said and added that BIOMIN is focusing on helping the industry to optimize feed performance. During the expo, customers got an overview of Spectrum Top® 50, the mycotoxin detection service from BIOMIN and the mode of action of Mycofix® portfolio of feed additives. Andrew Robertson in his comments observed that

comments observed that huge opportunities are ahead for BIOMIN in Indian subcontinent. "It is very encouraging to interact with the customers and visitors The golf activity hosted at the booth by BIOMIN was thoroughly engaging and entertaining for the customers and became an immediate hit.

"We are delighted to see the happy customers trying their hand at the putting greens and those who putted won a prize,"Rajan Seralathan, Strategic Process & Marketing Director, BIOMIN India said and added that there were also repeat visitors who wanted to try again.

To create awareness on the BIOMIN products and services, the entire BIOMIN team observed 'PoultryStar Day' and 'Mycofix Day' on November 27 and 28 respectively by wearing the badges.

Alongside Indian customers,



here, who are showing a great level of interest in improving feed efficiency and animal performance through phytogenic feed additives," he said. industry stakeholders and business partners from Sri Lanka, Nepal, Bhutan, and Bangladesh also visited the BIOMIN booth.





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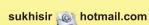




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- Scenario of Egg and Broiler industry development globally. And state wise in India.
- Advanced models / practices in poultry sheds construction for Layers & Broilers.
- Technology advancement in Cages, Feeders, Waterers & Egg Collection systems etc.
- Advantages of Automation for better productivity and long term saving in costs in Layers & Broilers.
- Feed & Nutrition, Bio-security & Management.
- Diseases: Prevention & Control.
- Chicken & Egg Processing.
- Branding & Marketing of Eggs & Chicken to promote consumption.

Note: Knowledgeable Speakers on the subject with good communication skills are invited to contact us to make presentation in "UPDATE" on the above topics on or before 30 November 2019.

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- 6. Best Poultry Feed & Healthcare Products
 Distributor Award
- 7. Best Egg & Chicken Consumption Promotion

 Award
- 8. Best Manager in Production in Poultry Award
- 9. Best Marketing Man in Poultry Award
- 10. Best Poultry Scientist Award
- 11. Best Poultry Equipment & Automation Award
- 12. Best Poultry Healthcare Products

 Manufacturer Award
- 13. Best Poultry Feed Miller Award
- 14. Best Layer Breeder Hatchery Award
- 15. Best Broiler Breeder Award
- 16. Best Young Entrepreneur Award
- 17. Best Executive with Long Service Award
- 18. Best CEO in Poultry Industry Award
- 19. Life Time Achievement Award

PF International Awards 6:30 PM to 8:00 PM

12 March 2020

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DIARY of Events 2019 A Special Feature

January 2019

- ► New Office Bearers elected for AIPBA.
- ► Kemin hosts Young CEO Forum for Industry Young Minds.
- ► Alltech Conducts Poultry School in Anand, Gujarat.

FEBRUARY

- ► Dr G. Gopal Reddy nominated as Member of Research Advisory Committee of ICAR – NIANP, Bangalore.
- Zydus Animal Health receives Best company in India /Middle East / Africa.
- ► Pas Reform appoints new Sales Director.

MARCH

- US Food Giant Tyson Foods Invests in Smartpro Hatchery Technology.
- Maharashtra Farm Commission. Urges Govt to Ban Import of GM Soyabean.
- Global Market Study on Egg Powder: Increasing Consumption of Whole Egg Powder to be observed in the Coming Years.

APRIL

- ► Srinivasa Farms and Hy-Line International enter in North India.
- Dr Ranjith Reddy dedicates his life to public service: Becomes Member of Chevella Parliamentary



constituency, near Hyderabad.

► Suguna Foods Cross Rs 9,000 Crores Turnover.

MAY

- Kemin Expands India Facility to Increase Manufacturing Capabilities.
- ► A Rendezvous with the Gandhi Ladies .
- ► NBPL Announces Joint Venture with NOREL.

JUNE

- ▶ HIPRA Launches Vaccines in India.
- ► Alltech and the Lyons family announce establishment of new foundation with UK HealthCare.
- Cyclone Fani led to massive loss of poultry in Odisha.

JULY

- ► ONE19 The Hub of motivation, Inspiration and ONE meaningful Idea.
- ► Nouriture by Anmol Feeds sets up state-of-the art livestock feed unit in Jammu.
- ► Chicken Doctors Conclave by Vets in Poultry held at Goa.

AUGUST

- ► Hy-Line International enhances Genetic Progress with New Research Farm.
- ► Godrej Agrovet one among top 3 Commercial Poultry Feed Companies; No 1 in Dairy feed in India.
- Overdrive Electronics aims to make its lighting products a big brand in Indian Poultry.

SEPTEMBER

► INFAH holds its 8th AGM at Mumbai.



- Skylark aims at expanding its Broiler Integration; Spreading its Bovans, Hubbard operations in India.
- Srinivasa Farms gets Rs 130 crores equity from IFC, Plans Rs 300 crores expansion.

OCTOBER

► Suresh Chitturi elected Chairman, IEC.



- CLFMA Symposium at Delhi deliberates on 'Indian Livestock Farming: Prospects & Role of Government Policies'.
- ► India is a key Priority Market and a Focus for Nutreco and Trouw Nutrition.

NOVEMBER

- Srinivasa Farms supplies over 3 Cr
 Hy Line W-80 Chicks in India;
 Covers 14 States.
- Zeus Biotech A Core All Natural Nutrition and Healthcare products Mfg Co focusing on Quality.
- ► 42nd Vesper foundation day celebrated.

DECEMBER

- Zoetis Withdraws Growth Promoters, Antibiotic products supply for poultry and other animals.
- 'VIP holds EggChi Walkathon in Chandigarh with slogan "Tackle Protein Malnutrition". Healthy lifestyle with balanced protein intake is extremely important.
- ► Poulpro Agencies takes up SKM Best Egg products for Hyderabad.





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Role of Exogenous Enzyme in Broiler Chicken

Bornalee Handique

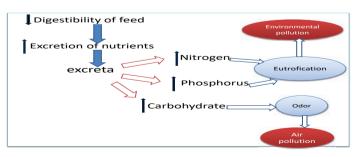
PhD Scholar, ICAR-Indian Veterinary Research Institute, Izatnagar, UP

INTRODUCTION

Poultry industry is facing some challenges due to high costs of conventional feed ingredients like vellow corn and soybean meal. These feedstuffs are mostly used in poultry diet. The feed represents about 60-75% of the total costs of animal production. Due to Increase the prices of poultry feed ingredients there is an urgent need for nutritious and affordable feeds for poultry. Therefore, the wastes of fruits and vegetables after harvesting and handling could be used as alternative sources of energy, protein, amino acids, vitamins and other nutrients in feeding poultry. But the inclusion of feed ingredients containing anti-nutritional factors may adversely affect poultry performance. Supplementation of commercial enzymes can enhance the nutritional value of crops containing high contents of soluble non-starch polysaccharides (of NSP's). The NSP's digestibility is very low in poultry and a large amount is voided through the excreta. These problems can be resolved by the addition of enzymes to poultry diets. Increased use of exogenous enzymes is expected not only from the nutritional and economic aspects but also from the health and environmental point of view. Since enzymes improve nutrient digestibility and utilization, thereby mitigating the excreta output and lowering nutrient excretion, particularly excess nitrogen, phosphorus, zinc, and copper Enzymes, which may not be produced in large levels by the birds are suggested to be supplemented to the diets.

ENZYMES ACTIVITY

Enzyme is a functional protein that stimulates or accelerates the rate of specific chemical reactions. Enzymes activity is reliant on the substrate in a random way or at a very particular site on the substrate. The usage of sunflower meal (SFM) in poultry diets is limited due to



high fibre content. The solution for this problem may be using exogenous enzymes and hydrolyze the NSPs, which could be used by avian and increase energy utilization. Enzyme activity depends on several factors like the type of enzyme used, species of the animal, gastro intestinal conditions etc.

SOURCES OF ENZYMES

Enzymes are produced from bacteria, fungi, plant and animals organ. Exoenzymes are available as dry, liquid and encapsulated form. Now a days cocktail enzymes are also available which are more efficient.

| Produced by | Enzyme | |
|---------------|----------------|--|
| Bacteria | | |
| Bacillus | Alpha -amylase | |
| Bacillus | Beta- amylase | |
| Bacillus | Protease | |
| Fungi | | |
| Aspergillus | Alpha- amylase | |
| Aspergillus | Protease | |
| Aspergillus | Phytase | |
| Plants | | |
| Malted barley | Alpha- amylase | |
| Papaya | Papain | |
| Animal | | |
| Liver | Catalase | |
| Pancrease | Lipase | |

HOW EXOGENOUS ENZYME HELP

- Degradation of specific bonds in ingredients.
- Degradation of anti-nutritional factors.
- Disruption of endosperm cell wall integrity and the release of nutrients.
- Reduction in the weight of intestinal tract and changes in the intestinal morphology.
- Changesin the micro flora profile in the small and large intestine.
- Augmentation of endogenous digestive enzymes.

EXOGENOUS ENZYME MOSTLY USED IN POULTRY

| Enzyme | Substrate | Effect |
|-----------|-------------------|---|
| Cellulase | cellulose | Degradation of cellulose |
| Glucanase | Beta -glu- can | Reduction of intestinal digesta viscosity |
| Pectinase | pectins | Reduction of intestinal digesta viscosity |
| Xylanase | xylans | Redution of intestinal digesta viscosity |

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| Galactisidases | galactoside | Removal of galactosides |
|----------------|-------------|---|
| Phytase | Phytic acid | Enhence utilization of plant phosphorus |
| Protease | Peptide | Bioavailability of amino acids increase |

What is Non Starch Polysacharide (NSP)

Non-starch polysaccharides are polymeric carbohydrates, which vary from starch in structure and composition and therefore, are not completely digested by birds. Poultry does not produce enzymes that hydrolyze NSPs of the cell wall in grains and they remain without decomposition and cause a reduction in feed efficiency. The NSPs are able to bind large quantities of water and as a result, the fluid viscosity increases. Increasing viscosity may cause some problems in the small digestion of carbohydrate, protein, and fat. Furthermore, the high viscosity of intestinal content increases the sticky dropping amounts. Supplementation of preparations of the favorable exogenous enzyme in the diets is considered modifications to overcome the adverse effects of NSP's.Enzymes break down the NSPs, reduce intestinal viscosity, and subsequently get better nutrients digestibility by improving gut performance.

BENEFITS OF EXOGENOUS ENZYMES

- ► Reduce the variability in nutritive value between feedstuffs.
- ► Clean environment
 - reduced manure volume.
 - reduced nitrogen and phosphorus excretion.
- ▶ Utilisation of nutrients.
- ► Increases flexibility and range of feedstuffs used in feed formulations.
- ▶ Release of bound mineral and other nutrients.
- ▶ Improve health of the birds.
- ► Least cost feed formulation
- ► Improve sustainability
- ▶ Reduce the cost of animal production.
- ▶ Better uniformity of animals at market time.
- ► Improved intestinal morphology
- ► Improvement of litter quality
- ► Use of Agro –industrial byproductseduction of sticky droppings

CONCLUSION

Supplementation of exo enzyme in poultry diet help in release of bound minerals and other nutrients, increase productivity, reduce the cost of production, improve litter quality and use of agro-industrial byproducts. Exogenous enzyme also help in clean environment by reduced manure volume and reduced excretion of nitrogen and phosphorus. Thus concept of exogenous fibrolytic enzyme in the poultry feed industry is a developing prospect of animal husbandry with the purpose of enhancing digestion, feed utilization & also reduction of environmental pollution.

Refereances:

Saleh, F., A. Ohtsuka., T. Tanaka and K. Hayashi. 2003. Effect of enzymes of microbial origin on invitrodigestibilities of dry matter and crude protein in maize. Journal of Poultry Science 40: 274-281

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Easing the pains of egg and chick processing

Owing to the delicacy of the products, egg and poultry processing can be a time-consuming, labour-intensive business. But a suite of advanced new machines and techniques are making tasks such as packing, grading and sorting ever more efficient.

Mr Chris McCullough

Modern egg and chick processing has come a long way over the past decade, aided by new ideas, new technology and new-age farmers. Long gone are the days of gathering hundreds of eggs by hand, and then having to wash and sort them out by size or shape before packing in trays ready for delivery or collection.

There are around 397.35 million laying hens in the European Union producing in the region of 7.7 million tonnes of eggs each year. That's a lot of eggs to process by hand, but thankfully technology has taken over in the majority of the 28 EU members states to assist with the handling of eggs. While some countries have taken steps to invest in the latest equipment, both on farm and in factory, some of the poorer states in the EU still use traditional labour-intensive methods.

Four areas of production that have particularly benefited from new technology in recent years are in packing, grading and separating eggs - all of which have both seen advances in equipment to make processing efficient - and in sexing chicks with the use of innovative laser techniques.

Big Dutchman's Big Packer system



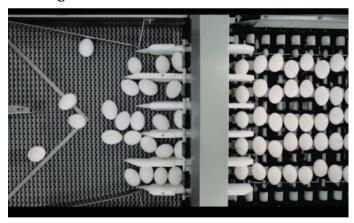
© Big Dutchman

Packing eggs on a farm is a notoriously time-consuming process - or at least it was. Tackling the issue, the German based pig- and poultry-equipment specialist Big Dutchman recently launched its new BigPacker product line. Three different farm packer models are available in this range which can pack 15,000 to 25,000 eggs per hour, making them the ideal tool for small- to medium-sized poultry units.

The new BigPacker products are distributed in cooperation with the Dutch company Moba, which claims to be the world's leading manufacturer of egg grading, packing and processing equipment.

Big Dutchman says with adding the farm packer range to its portfolio it has completed its range of products to aid professional egg collection. Available in three sizes, the BigPacker machines speed up the packing process and handle eggs with ease. They are also available with a tray stacker as an extra option. The main advantage of this system, says the company, is its efficiency: the process isn't held up by waiting for a sixth egg to complete a row in each tray, and it only takes one person to operate the packing machine.

Sanovo grader



Sanovo

With over 60 years experience in the egg grading industry, Sanovo has launched its new GraderPro range, calling it "the next generation of egg graders".

The largest-capacity machines can grade up to 800 cases per hour, and a key innovation is the GraderPro's new system that ensures eggs are handled as gently as possible, to avoid breakages. According to the company's website: "Most damaged eggs are cracked due to side impact on the eggs. Side impact appears when you transfer eggs through a machine in one direction, and while the egg is in movement, change the direction. To avoid this side



impact we developed a system that only transfers the eggs in one direction at a time. We deliver eggs only one way - downwards. The downward delivery eliminates side impact and ensures exceptional gentle egg handling."

Sanovo has also reduced the track speed by up to 25 per cent when compared to other manufacturers, following a rethink of the movements within the frame of the grader. Reducing this track speed, says Sanovo, should make for even gentler egg handling and a higher output of packed eggs in the process.

Some of the other advantages of the Grader Pro include its simple design, which, says Sanovo, should require low maintenance, and a design feature that means each egg is fully traceable throughout the grading process.

The company has made a hygiene a strong focus of its design, making sure that all parts of the machine can be cleaned leaving no blind spots. There is therefore no need for disassembling the machine for cleaning.

Moba egg breakers



These days, no one should have to sit for hours breaking and separating eggs, which is why Moba has developed the Pelbo Synchro egg breaker and separators. These are high-capacity machines with extremely high yields and, says Moba, proven reliability. Synchro breakers are available in five models with capacities ranging from 20,000 eggs per hour to 226,000 eggs per hour.

The highest-capacity unit, the Synchro626, is the world's highest-capacity breaker with the slowest and safest egghandling speed found in the market, according to the company.

Moba egg breakers offer minimum whole-egg quantities, high-quality egg white (with less fat content) and an increase in yolk dry matter.

Laser chick sexing

Culling male chicks at one day old is quite a controversial topic, so researchers are looking into new methods of determining a chick's sex before it is born. Using laser technology, scientists in Dresden, Germany, have been able to tell the sex of embryos at day 3.5 of incubation with a success rate of 93 percent.

During the research scientists investigated optical spectroscopy to determine, non-destructively and in-ovo,

the sex of early chicken embryos. The embryo's blood-circulation system was accessed by producing a window in the egg shell and the flowing blood was illuminated with a near-infrared laser. The blood's fluorescence was then analysed, and differences in its intensity when examining 380 eggs at day 3.5 of incubation meant that researchers could correctly identify the unhatched chick's sex in 93 percent of cases.

The increase of fluorescence intensity between 3.5 and 11.5 days of incubation was found to be in agreement with the erythropoietic stages, thus enabling identification of haemoglobin as a fluorescence source.

Sex-related differences in the fluorescence spectrum were found at day 3.5, and principal component analysis showed that the blood of males was characterised by a specific fluorescence band located at ~910 nm.

As a result, supervised classification of the PC scores enabled the determination of the sex of 380 eggs at day 3.5 of incubation with a correct rate up to 93 per cent by combining the information derived from both fluorescence and Raman scattering.

Summary

Processing eggs both on-farm and in factories has been made more efficient with modern day technology reducing the labour-intensive and time-consuming aspects of the jobs, as well as improving welfare in the case of fertile eggs and male chicks. However, it is not every farm or factory around the world that can afford this equipment. The onus is on manufacturers to develop equipment that can streamline an egg producers/processors business but at an affordable price in less developed countries. While the topic of culling male chicks remains controversial, there will always be a need for a system that can avoid this. Developers of this type of technology will be under pressure to act fast to make their research become commercially viable as soon as possible.

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Top six tips for chicken food safety

Chicken tartare, carpaccio or sashimi, anyone? No!

Dr Vivien Kite

Most of us understand that you shouldn't eat raw chicken and why but with the holidays looming and many of us cooking for friends and family it is a timely reminder to look at the dos and don'ts that relate to raw chicken meat and food safety.

1. DON'T wash raw chicken before cooking it

Raw chicken meat doesn't need to be washed before cooking but, more importantly, it shouldn't be washed! Washing raw chicken risks splashing chicken juices and any accompanying bacteria around the kitchen onto benches, prepared foods and utensils etc. Modern chicken processing conditions and practices ensure that raw chicken meat reaches your home with as little bacteria on it as possible, but there can still be some bacteria present. Washing chicken creates an opportunity for cross-contamination within the kitchen and cross-contamination is a big contributor to foodborne illness. It is important to ensure that any items that come into contact with raw foods get washed ...especially hands.



2. DO cook chicken thoroughly

Always! Cooking chicken thoroughly easily kills the bacteria of concern in a food safety context that can potentially be associated with chicken. To check, if you have a food thermometer, it should reach at least 75°C when inserted to the deepest (thickest) part of the meat; if you don't have a food thermometer, the juices should run clear (not pink) when you pierce the meat with a fork or skewer to the thickest part of the meat and the colour of the meat should be consistently white when cut in half at the thickest point.

3. DON'T defrost frozen chicken on the bench

Never! Raw chicken meat should always be thawed below 5°C, which usually means in the fridge, or by using a microwave. The microwave is fastest but can damage the quality of the chicken if you're not careful so often the easiest way is to defrost gradually overnight in the fridge because this maintains the safety and quality of the meat. To prevent cross-contamination with other foods in the



fridge, put the meat in a container which prevents juices dripping on other food items and/or put it on the bottom shelf.

4. DO wash your hands...boards, hands, knives, containers...

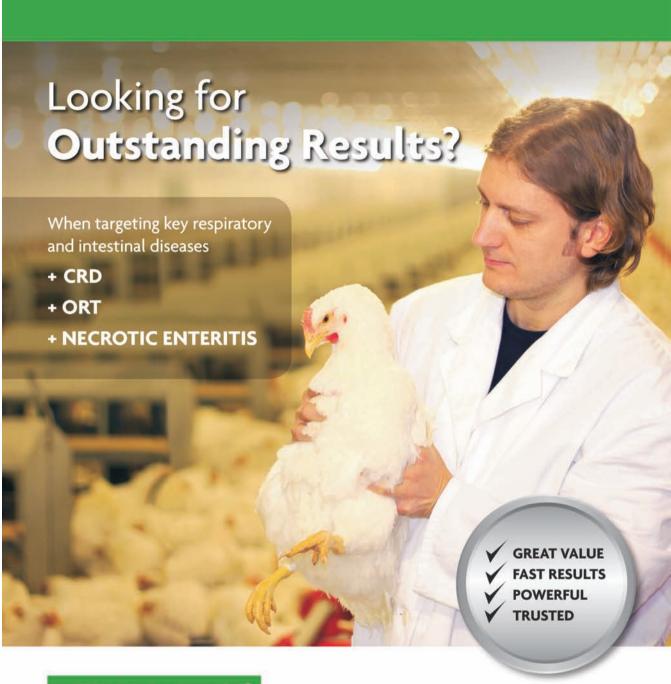
While the risk from chicken meat itself is gone after cooking (assuming it's thoroughly cooked and consumed or refrigerated within 2 hours), cross-contamination from whatever came in contact with the raw meat before it was cooked still exists. So things like knives, chopping boards and particularly hands and anything they've touched such as towels, can still have bacteria from the raw meat present on them. It's easy to see how the bacteria can be transferred from these things to foods that are consumed raw (like salads) or food that's already been cooked, and because there is no additional cooking step to kill the bacteria the food gets eaten along with any cross-contaminating bacteria! So either have utensils and boards specifically for raw meat or clean them immediately after use for raw meat and before use on anything else. But always wash vour hands!

5. DON'T let raw chicken meat come in contact with other foods in the fridge

Cross-contamination is possible not just during preparation in the kitchen, it can occur during food storage too. Always separate raw chicken and other foods in the fridge so raw chicken juices cannot drip or spill onto or in any other way come in contact with other foods.

6. It's OK to refreeze defrosted chicken

YES, it is! It is safe to put defrosted chicken back into the freezer, but, only if the chicken was defrosted as described in 3 above and wasn't 'defrosting' for longer than 24 hours at this temperature. The myth that it is not safe to refreeze chicken meat that has been defrosted arises from confusing two issues: quality and safety. While it is safe to put chicken that has been defrosted below 5°C back into the freezer, freezing and re-freezing chicken may result in a deterioration in the quality (taste and texture) of the meat.





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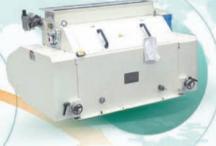
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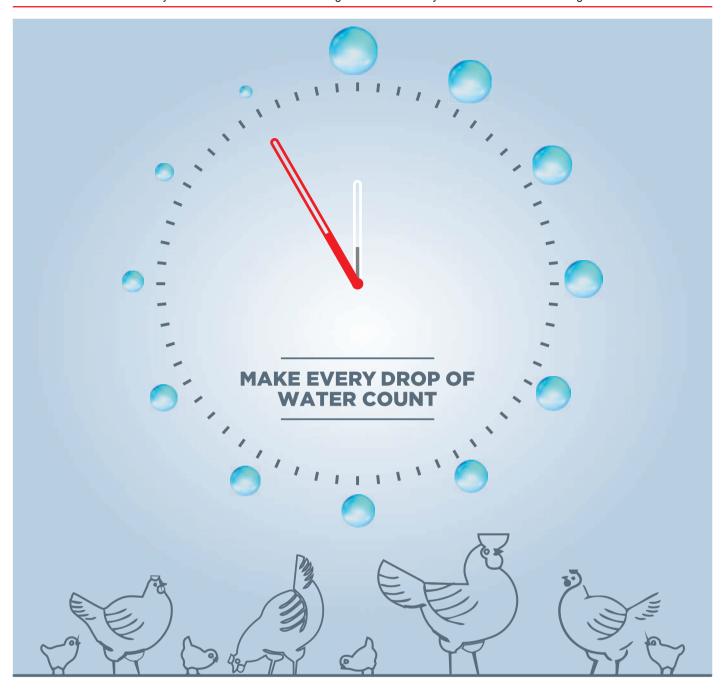
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