

Poultry Fortune

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November 2018

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INFAH hold its 7th AGM

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Nutritional and Management Interventions for Heat Stress in Layers



Varsha Group holds its 4th Poultry Panorama at Phuket, Thailand

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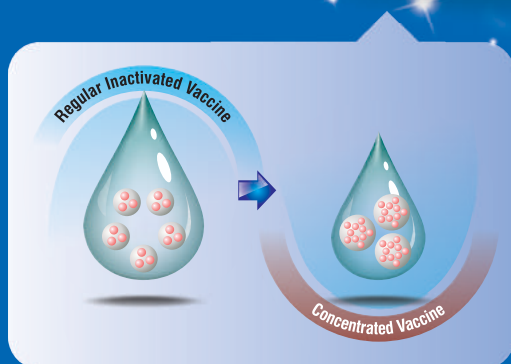
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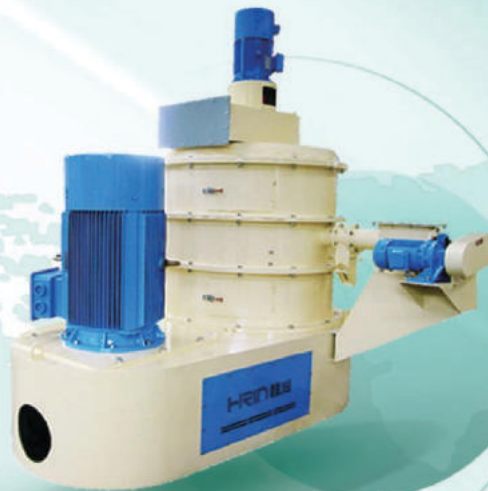
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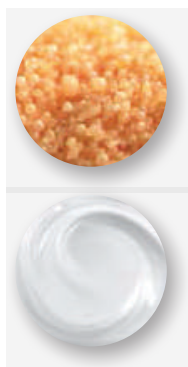
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- Editor



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Govt. should stop NGOs interference in Poultry



Dear Readers,

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

In the News section, you may find news about: Poultry Federation of India (PFI) President Mr

Ramesh Chander Khatri sent us a note that Foreign-Funded NGOs are keen to destroy Poultry Sector with the support of Gauri Maulekhi, a protégé of Union Minister Mrs Maneka Gandhi. They are using the position of power in government and facilitating the foreign-funded NGOs mafia via filing PILs in high-courts working against Indian farmers to seek foreign funding for their own NGOs. These people in power are also threatening various government officers and scientists not to oppose the foreign-funded NGOs illegal and unscientific acts. Once again foreign-funded NGOs are involved in destabilising the farmers of India for their vested interest. On behalf of poultry sector stakeholders he appealed to the Government of India that source of Funding and Conflict of interest must be investigated by the investigating agencies like CBI and IB.

The **World Egg Day** was celebrated on (second Friday) October 12 and got off to a cracking start in India at Hyderabad with the launch by Mr Suresh Rayudu Chitturi, Vice Chairman of International Egg Commission (IEC) & Vice-Chairman & Managing Director of Srinivasa Farms Pvt Ltd. The day had been planned with panel discussions, seminars, Chefs making EGGlicious dishes, road shows competitions among others to create awareness about goodness of Eggs.

Prof Dr Konrad Domig of the University of Natural Resources and Life Sciences, Vienna (BOKU) was awarded the biennial B.R.A.I.N award during 2018 World Nutrition Forum, a scientific conference hosted by BIOMIN, this time in Cape Town, South Africa.

Hearing a petition for a ban on the “barbaric” meat trade and leather industry, Supreme Court Justice Madan B. Lokur recently asked whether the objective of the plea is to have a “country full of vegetarians.” A Bench of

Justices Lokur and Deepak Gupta was hearing a PIL filed by ‘Healthy Wealthy Ethical World Guide India Trust’ for a “complete ban on the export of all types of meat (including beef, fish, pork, poultry) and all related products, whether by the government or by private parties”.

The 7th Annual General Body meeting of INFAH was held on 27 August 2018 at Mumbai with a vision towards creating trust among veterinary professionals, livestock, poultry, companion animal and aqua stakeholders, enhancing animal health industry’s value and contribution to the society by setting high standards of competitiveness, ethical business practices, innovation and leadership among its members, and also ensuring significant presence across the globe.

Srinivasa Farms is to adopt 30 government schools to provide eggs to students as part of mid-day meal scheme. The country stands second in egg production and fourth in broiler chicken in the world with annual production being 91 billion and 4.8 million tonnes respectively.

Varsha Group, the Bangalore based poultry and animal health care products manufacturing company, organised its 4th edition of Poultry Panorama on September 26, 2018 at Phuket Thailand.

Trouw Nutrition India, a Nutreco Company, dedicated one day to give back to the community. Every year all the employees of Nutreco participate in activities to help the local community as part of Global Community Day. This year on 20 September 2018, Trouw Nutrition India gathered at Sankalp Foundation, Hyderabad to do community service by supporting student education, health and improving the facilities at student hostel.

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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BIOMIN recognizes B.R.A.I.N Award Winner Konrad Domig at 2018 World Nutrition Forum

South Africa: 5 October 2018 – In the presence of 800 delegates, Prof Dr Konrad Domig of the University of Natural Resources and Life Sciences, Vienna (BOKU) was awarded the biennial B.R.A.I.N. award on the second day of the 2018 World Nutrition Forum, a scientific conference hosted by BIOMIN, this time in Cape Town, South Africa.

The award selection committee cited his ongoing lifetime achievement in the field of research in food and feed safety, with a strong focus on antibiotic resistance.

Biography of Priv.-Doz. Dipl.-Ing. Dr nat.techn Konrad Domig

- Head of the Food Microbiology Laboratory at the Institute of Food Science at the Department of Food Science and Technology at the University of Natural Resources and Life Sciences, Vienna (BOKU).
- He has penned over 70 publications in internationally renowned peer-reviewed journals.
- Awarded several national and international prizes for research and innovation topics.
- Editorial board member of the International Journal of Food Microbiology
- Member of the K1 Center Austrian Competence Centre for Feed and Food Quality, Safety and Innovation (FFoQSI).

On the final day of the scientific conference at the 2018 World Nutrition Forum, Dr Eva Binder, Chief

Research Officer at Erber Group, Dr Gerd Schatzmayr, Research Director at BIOMIN Research Center and Franz Waxenecker, Vice President for Development and Innovation at BIOMIN, presented Dr Domig with the B.R.A.I.N. award and a check for \$10,000.

Dr Domig's achievement and longstanding work with BIOMIN has earned him esteem throughout the research and development functions of BIOMIN, seated at the BIOMIN Research Center in Tulln, Austria. He has also supervised the thesis work of several BIOMIN scientists.

"Dr Domig is a very positive, knowledgeable and supportive person. I appreciate the encouragement and guidance he provided during my PhD work that allowed me to learn and grow," remarked Nataliya Roth, Development Scientist at BIOMIN.

"I have had the pleasure of knowing Dr Domig for eight years. When I started my PhD at BOKU in 2011, Konrad accepted me into his lab and introduced me to microbial ecology," commented Mahdi Ghanbari, Scientist at BIOMIN.

"He has challenged me to ask scientifically-driven questions, draw connections between my research and the "bigger scientific picture", and explore new concepts and methodology, which is how I ended up becoming a computation biologist. His assistance, support, and advice have not only improved my research, but also made me a stronger, well-rounded scientist," Dr

Ghanbari added.

About the B.R.A.I.N. Award Established in 2006, the BIOMIN Research and Innovation Network (B.R.A.I.N.) Award seeks to foster ground-breaking innovation relating to livestock health and nutrition. It is awarded biennially at the World Nutrition Forum hosted by BIOMIN.

Past B.R.A.I.N. Award winners include:

- Dr Rudolf Krska, University of Natural Resources and Life Sciences (BOKU), Austria - 2016
- Dr Isabelle Oswald, French National Institute for Agricultural Research (INRA) - 2014
- Dr David J. Caldwell,

Texas A&M, United States - 2012

- Dr Todd Applegate, University of Georgia, United States - 2010
- Dr Kostas Mountzouris, University of Athens, Greece - 2008

About the World Nutrition Forum

First held in Salzburg in 2004, the World Nutrition Forum hosted by BIOMIN has become the leading opportunity for industry practitioners to share ideas and exchange knowledge. These biennial summits are consistently well rated by attendees. Each iteration draws upon the uniqueness of the location, speakers and participants while maintaining the highest quality standards for both content and organization.

Correction

In October 2018 issue of Poultry Fortune, we published a news titled "Huvepharma Acquires T-HEXX Animal Health & Qalian, an Invivo & Meriel Company".

Below the above title, a sub-title was published like "Announced Incentives of Eight Crores to Integration Team Members", which was not there in the Press Release sent us by Huvepharma.

Our DTP / Designing section made this mistake which was not identified before printing of the magazine.

Though it was not done intentionally, Poultry Fortune accepts the mistake occurred and we regret for the inconvenience caused to Huvepharma due to this error.

– Editor.

Mr N. Rajkumar, Sales Manager, Kemin Industries South Asia Pvt Ltd received Best Sales & Customer Service in Poultry Award 2018 at PF Awards 2018 gala evening held in Hyderabad on August 9, 2018. In the news published in September 2018 issue of Poultry Fortune, the photo caption was published with a different name, which was not correct Poultry Fortune regrets for the error and request the readers to read it as "N. Rajkumar replying to the Award".



N. Rajkumar replying to the Best Sales & Customer Service in Poultry Award 2018

– Editor.



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Poultry Sector Stakeholders' open letter to the President and Prime Minister of India for CBI & IB investigations

Below is a Press Note received from Mr Ramesh Chander Khatri, President, Poultry Federation of India:

"Foreign-Funded NGOs are keen to destroy Poultry Sector with the support of Gauri Maulekhi, a protégé of Union Minister Mrs Maneka Gandhi. They are using the position of power in government and facilitating the foreign-funded NGOs mafia via filing PILs in high-courts working against Indian farmers to seek foreign funding for their own NGOs. These people in power are also threatening various government officers and scientists not to oppose the foreign-funded NGOs illegal and unscientific acts. Once again foreign-funded NGOs are involved in destabilising the farmers of India for their vested interest.

Our appeal to the Government of India that source of Funding and Conflict of interest must be investigated by the investigating agencies like CBI and IB.

Background:

Today, Indian poultry industry is one of the best in the world in terms of productivity, quality and cost competitiveness. This achievement is a shining example of partnership between farmers, Poultry R & D institutions and poultry industry of India. Today, Indian poultry industry is managed by 50 lakhs farmer families and producing the best protein for the consumers at the most affordable price. Because

of the low-cost production compared to other countries, other countries are not able to send their inflated cost materials to India. As India is one of the largest consumption markets all competitors are eyeing this market.

Now competing countries have realised that they cannot make entry into Indian markets, they have decided to destabilise the Indian poultry market. All competing countries are working overtime to destroy cost competitiveness of Indian poultry industry.

Foreign donors are working overtime to destroy the Indian poultry sector:

India is adopting the best global practices in poultry sector. Many foreign-funded NGOs on the behest of donors are trying to destabilise the Indian poultry sector. All this is being done in the name of Animal rights through their NGO People For Animals where they gain sympathy from people by playing with the emotions.

It is shocking and shameful that Union Minister of Government of India Mrs Maneka Gandhi and her NGOs are siding with these foreign-funded NGOs against Indian farmers without conducting any research in India.

In the last few months a few foreign-funded NGOs have filed PIL cases in courts with an intention to impose EU standards in India without any technical justifications. Even EU has accepted that their poultry standards lack

scientific merit and they are working on it.

It is a biological fact that poultry birds start losing their productivity, health and life beyond 27 degrees Celsius. (any citizen can search these facts on the Internet)

Mrs Maneka Gandhi NGO is demanding birds should be reared in open area where temperature if beyond 35 degrees Celsius. This will lead to massive deaths and diseases among Indian poultry sector and farmers will be ruined.

Indian poultry research institutes have conducted a detailed study and submitted their reports to the Government of India and declared that the demands of Mrs Menka Gandhi are illogical and unscientific.

Serious Concern: There is serious attempt to suppress the science to defend her vested commercial interest and donations. Mrs Maneka Gandhi is using her position of power and calling all government officials and scientists and abusing them and ordering that they must support her demand. She is threatening all officers of the poultry department and scientists working in the poultry sector of dire consequence and she is using abusive language. Officers are bound by their office rules and decorum and unable to speak their insult and the problems created by these NGOs and their patrons in public. The government must investigate these cases and

punish the guilty.

As poultry farmers, we must ask Hon'ble Prime Minister and BJP to investigate the matter and seek an explanation.

Poultry farmers of India demand following investigations by PMO, CBI and IB:

Poultry industry demands investigation against Mrs Maneka Gandhi, Union Minister in Modi Government and all NGOs affiliated to her.

1. PMO must investigate all the NGOs affiliated to Mrs Maneka Gandhi and disclose all her funding sources?
 2. PMO must investigate how many funds were given to Mrs Maneka Gandhi's NGOs in the last 10 years under various heads by various departments?
 3. PMO must investigate and make it public all the sources of foreign funds which Mrs Maneka Gandhi and her NGOs received from outside India in the last 10 years.
 4. PMO must direct all ministries not to accept any demand of foreign-funded NGOs and NGOs affiliated with Mrs Maneka Gandhi without any scientific studies and technical evidence based on work in Indian climatic conditions.
 5. All documents submitted by NGOs affiliated to Mrs Maneka Gandhi's must be in the public domain.
 6. All officers must be advised to send the complaint to PMO in case any NGO or their powerful promoters threaten any officer, scientists or any citizens.
- We need urgent intervention by the President of India and PMO".
- With regards
- Poultry Farmers of India**



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World Egg Day in India

Launched By Suresh Chitturi,
Vice Chairman of International Egg Commission (IEC)



Suresh Rayudu Chitturi, Vice Chairman of International Egg Commission (IEC)

12th October 2018, **Hyderabad:** The World Egg Day which is celebrated on 2nd Friday of October every year got off to a cracking start in India at Hyderabad today with the launch by Suresh Chitturi, Vice Chairman of International Egg Commission (IEC) & Vice-Chairman & Managing Director of Srinivasa Farms Private Limited. The day has been planned with panel discussions, seminars, Chefs making EGGlicious dishes, road shows competitions among others to create awareness about goodness of Eggs.

On World Egg Day, many countries around the globe organize exciting activities filled with adventure, fun and awareness promoting the benefits of eggs to human health and encourage all age groups and fitness levels to participate.

A benefit to everybody's body

Eggs have a valuable role to play at the very earliest stages of human development and can continue to be of significant benefit throughout our lives. With the power to

sustainably feed the world, eggs high quality protein, essential vitamins and minerals are essential for:

- Foetal development.
- Healthy brain development in young children.
- Improving concentration levels at school, work and play.

“Over the past 23 years, IEC communicated the positive impact that eggs can have on our lives. They are not only universally beneficial to our health; I’ve also discovered that they’re universally funny! In both developed and developing populations – a high quality source of protein is a fundamental requirement; and that’s a very serious message. However, we also want engage with the widest possible audience, by encouraging children and their parents to share the more humorous side of the humble egg.” Said Suresh Chitturi

IEC constantly engages with the stakeholders communities in promoting the goodness of eggs. This year, for promoting the goodness of Egg and spreading awareness,

IEC, through Srinivasa Farms Pvt Ltd, leader in Poultry Business in India, has undertaken a series of events which among others include

Adoption of 30 schools in Telangana

Malnutrition is a serious problem among children in Developing Countries. In India; Mid-Day meal program is in place to combat malnutrition in Government schools. We at IEC through Srinivasa Farms, plans to adopt 30 Government schools and provide nutritious EGGS as part of Mid-day meal program for a period of one year.



Suresh Rayudu Chitturi interacting with participants

World EGG day celebrations

World Egg day is being celebrated by a press conference by IEC Vice-Chairman Mr C. Suresh Rayudu promoting the goodness and nutritional



Suresh Rayudu with Chef Sanjay Thumma & Nutritionist Dr Janaki

benefits of egg. This will be a good platform to launch the theme / agenda set by IEC for respective years. IEC plans to celebrate in a big way. World Egg Day will create a permanent platform for Poultry and Egg industry

Innovative Eggatoons / Eggart, Essay writing competition etc.

Various EGGcentric ideas and themes are planned across 10000 schools in Tamil Nadu, Telangana, Andhra Pradesh and Karnataka highlighting the Goodness of Egg and its nutrition. IEC plans to approach various schools for this.

EGGlicious dishes

Inviting and creating EGGlicious dishes by celebrity chefs in various regions and television shows to promote goodness of egg to make Eggs popular and tasty!!

Road Shows

Various road shows promoting egg benefits to the common public in many regions

India: Quick poultry facts

- India stands 2nd in Egg Production and 4th in broiler chicken production in the world.
- The annual egg production is about 91 Billion Nos. and Chicken Meat production is about 4.8 Million Tons.

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Ref : The EFSA Journal (2009) 992, 1-24 ; Journal of Animal and Feed Sciences, 24, 2015, 93-99



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The information provided in this document is at the best of our knowledge, true and accurate. However, products must only be used in compliance with local laws and regulations and we cannot guarantee freedom of use for every intended application or country.

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LES ARGENTINS

- The Size of the Poultry Industry is about INR 120,000 Cr out of which broiler/Chicken Meat segment contributes about 67% and Egg contributes about 33% of Market.
- The poultry industry is growing at a healthy rate of about 8-10% year on year. Egg Market is growing at a CAGR of about 6-7%.
- The demand is growing at about at 6-7% in volumes and about 4-5% in Value.
- The largest market for Eggs are the Metropolitan cities which consumes about 180 eggs per capita.
- Total Egg Consumption in India is about 90 Billion Nos.
- Highest egg consumption is in the Southern states whereas lowest consumption is in the northern India. Telangana, Andhra Pradesh and Tamilnadu have per capita egg consumption of about 130, 120 and 110 respectively.
- The per capita egg consumption in Haryana and Rajasthan is about 30 and 20 respectively.
- Egg consumption in India is quite low 69 Eggs per Capita compared to 180 as recommended by Indian Medical Council.
- The per capita consumption in China is about 270 eggs and Japan consumes about 370 Eggs per capita.
- Egg consumption has a correlation with respect to GDP per capita and it shoots up at GDP of USD 3000 per Capita. The Egg consumption in India will be growing at rapid pace in next decade due to growing economy and increasing population of middle class.

Perstorp appoints new Vice President for Feed & Food in North & Central America



Perstorp appoints Jimmy Paulakuhn as Vice President for Feed & Food in North and Central America.

Leading specialty chemicals company Perstorp has appointed Jimmy Paulakuhn as Vice President for North and Central America, responsible for the Feed

& Food Business Area. Paulakuhn will join Perstorp on November 1 and report directly to Perstorp Feed & Food Executive Vice President Roger Mann.

Perstorp Feed & Food has an ambitious growth strategy in the Americas, which Paulakuhn is an integral part of. "With the reduction of antibiotics higher than ever on the agendas of consumers and companies, we expect the demand from North and Central America for our solutions to grow. Organic acids and especially our esters of organic acids

are a prime candidate to help facilitate this reduction of antibiotics without compromising on performance. A bigger more independent team led by an experienced specialist like Jimmy will make sure we can meet those demands" said Mann.

Paulakuhn has an impressive resume with 25 years of experience in a broad range of business and technical functions in the poultry industry. Past positions include National Sales Director US for Zoetis and VP of live operations at Mountaire Farms.

Paulakuhn will be responsible for achieving Perstorp's ambitious strategic goals for Feed & Food in North and Central America. He will be responsible for the sales and GTM strategies with Perstorp's distributors and agents, as well as lead, train and develop Perstorp Feed & Food's regional sales and technical team.

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For more information please contact:

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Perstorp believes in improving everyday life – making it safer, more convenient and more environmentally sound for billions of people all over the world. As a world leading specialty chemicals company, our innovations provide essential properties for products used every day and everywhere. You'll find us all the way from your car and mobile phone to towering wind turbines and the local dairy farm. Simply put, we work to make good products even better, with a clear sustainability agenda. Founded in Sweden in 1881, Perstorp's focused innovation builds on more than 135 years of experience, representing a complete chain of solutions in organic chemistry, process technology and application development. Perstorp has approximately 1,500 employees and manufacturing units in Asia, Europe and North America. Sales in 2017 amounted to SEK 13.6 billion. Learn more at www.perstorp.com.

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DSM expands India operations with the opening of 2nd Animal Nutrition & Health premix plant

Royal DSM, a global science-based company active in nutrition, health and sustainable living, today officially opened its second animal nutrition & health premix plant in Jadcherla, India.

With an aim to deepen DSM's connection to its Indian consumers, the new plant serves as a catalyst for growth in India, reinforcing DSM's strong ambitions for the country. The opening followed years of detailed research and analysis of the Indian market, with the objective to serve the market with solutions that are tailor made for local needs.

India's growing needs

India's economic growth is accelerating rapidly and is pegged to be one of world's fastest growing economy. According to DSM Animal Nutrition and Health, Business Unit Director for South Asia, Mr Ravindra Vyawahare, the dynamism of the market was key to continue investments in India. With over 20 years in the region, the plant also marks an important milestone for in the development of DSM's presence in India.

"India is one of the world's largest and fastest growing economies. We see strong potential for growth in the animal premix industry. The Jadcherla plant shows our willingness to support further development as it gives us far greater geographic reach and increases our production capacity to meet the growing industry demands,"

he said.

Sustainable solutions to meet increased demand

The opening of the new premix facility signals DSM's commitment to develop its operations in the country. As a purpose-led and performance driven company, DSM seeks to extend its presence in India with sustainable solutions that respect the environment and meet the specific needs of the Indian customers, thus creating greater value for the Indian market.

Commenting on the opening, David Blakemore, President, Animal Nutrition & Health for DSM said, "The opening of this premix facility in India underlines our commitment to meeting the global feed industry's need for innovative and sustainable solutions through continuing investments in our production footprint to support the growing markets. The plant is an example of DSM's growing global presence, and its commitment to drive innovation building on its wealth of resources and capabilities and extensive understanding of customers' needs both in the country and globally."

DSM draws on the latest science to provide flexibility to develop tailor-made solutions for the Indian market, leveraging its product portfolio and innovation capabilities to ensure customers extract maximum value from the solutions developed and produced locally. The

plant is fully equipped with best-in-class safety, health and environment compliance systems and its design allows for additional capacity to accommodate for further growth in demand in the future.

About DSM

DSM – Bright Science. Brighter Living.™

Royal DSM is a purpose-led global science-based company in Nutrition, Health and Sustainable Living. DSM is driving economic prosperity, environmental progress

and social advances to create sustainable value for all stakeholders. DSM delivers innovative business solutions for human nutrition, animal nutrition, personal care and aroma, medical devices, green products and applications, and new mobility and connectivity. DSM and its associated companies deliver annual net sales of about €10 billion with approximately 23,000 employees. The company is listed on Euronext Amsterdam.

'Do you want a country of vegetarians?'

Bench Comprising Justice Lokur Confronts Petitioner Seeking Ban on Meat Trade

New Delhi: Hearing a petition for a ban on the "barbaric" meat trade and leather industry, Supreme Court Justice Madan B. Lokur recently asked whether the objective of the plea is to have a "country full of vegetarians."

A Bench of Justices Lokur and Deepak Gupta was hearing a PIL filed by 'Healthy Wealthy Ethical World Guide India Trust' for a "complete ban on the export of all types of meat (including beef, fish, pork, poultry) and all related products, whether by the government or by private parties".

"Meat exports and ancillary leather trade is anti-social, barbaric and the much talked of foreign exchange comes with a huge price at the cost of the nation," the petitioner contended.

"World over 'slaughterhouse' and 'tannery' are indicted as unsocial, obnoxious and hazardous... meat exporters do not talk about rampant pollution

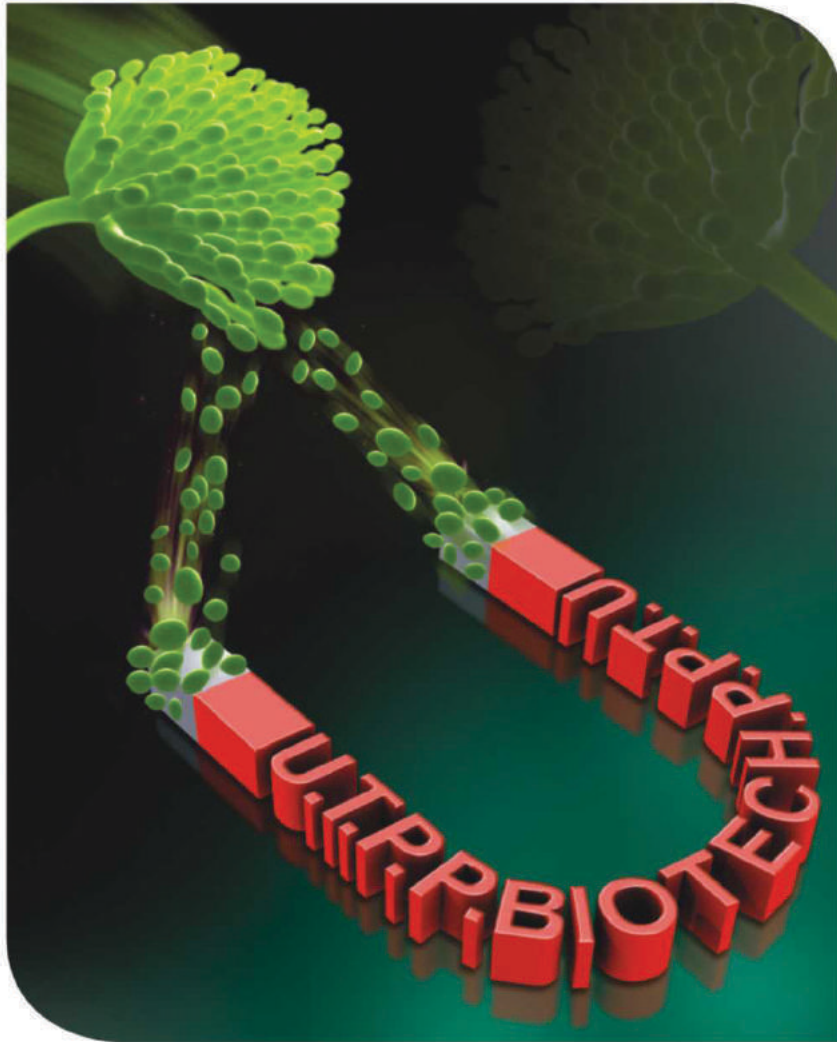
that emanates from this obnoxious industry," the petitioner said.

"So you want the entire country to be full of vegetarians?" Justice Lokur asked, appearing to be on the verge of dismissing the petition. However, acceding to the petitioner's lawyer's request that the court give him an opportunity to present the arguments in detail, the Bench agreed to hear the matter after the Puja holidays.

'Antibiotic misuse'

Contending that the Trust was not opposed to private domestic meat production, the petitioner chose to highlight the "rampant misuse of antibiotics in intensive animal agriculture and the spread of zoonotic diseases."

Meat trade and tanneries seriously affect public health, cause "reduction of our cattle wealth, contamination of the vital public resource of water and unbridled degradation of the environment," the petitioner said in the plea.



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INFAH working with clear vision towards creating trust among Stakeholders in livestock Sector.

INFAH hold its 7th AGM on 27 August 2018 at Mumbai



INFAH Bearers & members during its 7th AGM held at Mumbai

Mumbai: The 7th Annual General Body meeting of INFAH was held on 27 August 2018 at Hotel JW Marriott Sahar Mumbai. The meeting was attended by close to 100 industry colleagues representing Indian Animal Health & Nutrition Industry.

Indian Federation of Animal Health Companies (INFAH) has a clear vision towards creating trust among veterinary

Industry's value and contribution to society by setting high standards of competitiveness,



Dr Arun Atrey

ethical business practices, innovation and leadership among its members, and also ensuring significant presence across the globe.

Meeting started with the Safety Briefings by Hotel JW Marriott Sahar Security Staff.

In his welcome address by **Dr Arun Atrey**, Immediate past President, INFAH, expressed that the role of INFAH has become more significant to meet the

new challenges, adopt new culture and practices, be more proactive towards our role in policy making decisions and overall creating new opportunity for sustainable growth by adopting best professional and ethical practices. INFAH is totally committed to meet the expectations of its members. However, it would need constant encouragement and guidance from all who

He took this opportunity to congratulate all the members for being part of INFAH's journey of the last 7 years. This period was full of challenges and achievements. With the support of all the members INFAH have been able to create some new milestones which would give a new direction to its future growth. INFAH's vision is to raise our Animal Health Practices at par with the best in the World while ensuring that it protects the wellbeing of our local populace.

Key messages shared by Dr Dey were as follows:

1. INFAH's Mission is "Healthy Animal, Healthier India. INFAH's efforts would always be directed towards making our Animals healthy and their produce safe for the human consumption.



Dr Vijay Makhija, General Secretary, INFAH

INFAH's endeavour would always be for the practices which are beneficial to India and its Animal producers and consumers.

2. INFAH's initiatives have resulted in to many successes – Creation of dedicated Veterinary Cell at CDSCO, FDCs, mention of withdrawal periods of products labels, scientific representation of AMR issues, Nil GST on Feed Supplements, High visibility of INFAH at One Health India Summit in



Dr D.K.Dey, President, INFAH professionals, Livestock, Poultry, Companion Animal and Aqua stakeholders, enhancing animal health



Vijaya Teng, VP, INFAH matter.

Dr D.K.Dey, President, INFAH, welcomed the members to 7th AGM.



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Satish Pasrija

collaboration with Sathguru Cornell Foundation etc.

3. Access of Indian AH to Asian / Global Markets
INFAH participated in the 2nd VIV MEA Conference at Abu Dhabi representing the Indian Animal Healthcare industry and highlighted the potential of Indian companies in animal healthcare sector. This initiative reflects the theme **“Made in India”**, Made for the World in order to enhance the access of Indian animal healthcare companies to the Asian / global markets.

During the AGM, Insightful presentation on Status Update with respect to Goods & Service Tax (GST) was made by Mr Satish Pasrija (Past President, INFAH & Chairman Sub Committee on Feed Supplements). INFAH members were appraised about post GST scenario and its impact on animal feed supplements / additives. He shared the insights on proposed White Paper on Feed Supplements. In this paper, INFAH will cover all aspects of feed supplements and engage all stake holders and regulatory authorities for their inputs for the same. INFAH wish to carry out holistic research by bringing together all inputs required to precisely define status and prevent ambiguity at all levels. This document will be

mother document for feed supplements (segment) and can form basis for bringing uniformity in understanding and implementation with in industry and regulatory bodies.

Dr Vijay Makhija, General Secretary, INFAH

emphasized that the journey of INFAH will always remain challenging due to ever changing regulatory environment and continual demand for cost effective solutions. He applauded the “Passion” of all managing committee, and subcommittee members to take INFAH to greater heights.



Dr Shrish Nigam

Highlights of 2017-18:

1. Introduction of New Subcommittee

The year 2017-18 saw the creation of Aqua subcommittee. India's presence in world aquaculture produce is significantly rising. In the last few years the Indian shrimp industry has made significant strides in the global arena. Creation of the Aqua sub-committee will bring the required focus in this important area.

2. INFAH Corporate Social Responsibility

CSR initiatives have taken INFAH face-to-face with the society. INFAH took a small step towards the journey of achieving **“Freedom from Malnutrition”** by contributing in creating



Dr P.G. Phalke

awareness on nutritional importance of Egg Protein on the occasion of World Egg Day

3. INFAH - AAHA Meeting

To continue the collaborative efforts with AAHA, the members of INFAH and AAHA had a close interaction. The meeting was scheduled to work closely with each other and address the common concerns which can subsequently be taken up with the concerned Regulatory authorities. Key focus areas identified were harmonizing regulatory process, AMR, market access to different nations, data protection & confidentiality, veterinary pharmacopeia and some of the import-export related matters.

4. INFAH Delegation Participates in CDSCO and MoHFW Meeting

Drug Controller General of India organized a meeting of associations allied with the pharmaceutical sector to discuss the measures to streamline the drug regulatory system as well as to ensure Quality, Safety & Efficacy of drugs manufactured in the country. Apart from OPPI, IDMA, IPA and other associations of human pharma, INFAH represented the Animal Health pharmaceutical and biological sector. The discussions were oriented

towards the GSR 429 (E) for stability studies for pharmaceutical products and to synchronize Schedule M on par with WHO-GMP.

5. EU-India Dialogue Seminar on the Use of Veterinary Medicine and AMR

A two day dialogue seminar was organized by Export Council of India (EIC) and EU-India Capacity building. Initiative for Trade Development (CITD) INFAH presented the industry views on the highlighted concerns of Anti-microbial resistance in humans and its association with animal health sector. It was agreed that the prime culprit of AMR in humans is the over-use of antibiotics in human patients and transfer of resistance in hospital premises. INFAH also highlighted its commitment to the Indian livestock sector and effective and prudent use of anti-microbials for control of infectious diseases in farm animals.

6. INFAH participation at PVS Information Seminar

4-day PVS Information Seminar was organized by DADF. The seminar was organized to decipher the concept of “Performance of Veterinary Services” (PVS). The concept of PVS evaluation is developed by OIE for its member countries, under which OIE evaluates the country's infrastructures, policies, manpower and talent; accordingly prepare a report on way forward to make them better aligned with OIE standards. INFAH participated on day-1 and shared its activities.

7. Export of Poultry Products

Considering the bird flu incidence in India, many

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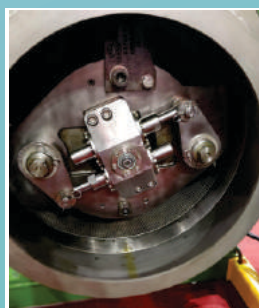


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Dr Asoke Benargee INFAH Award from Satish Pasrija

of the manufacturers from India find it difficult to register / export their consignments to other countries. Understanding the importance and relevance of the concern, the Imports and Exports Sub-committee of INFAH made a representation to DDG, Animal Sciences, to allow batch to batch testing and approval for bird flu free certification.

8. INFAH at IPR Biosecurity Summit

Poultry Fortune publication organized its sixth edition 'Poultry CEOs Forum India & PF Awards 2018' at Hyderabad on August 9, 2018 with INFAH President Dr D.K. Dey as the Guest of Honour. INFAH President made a presentation in the Forum with topic "Indian Animal Health Industry Dedicated to Stakeholders Interest" and also highlighted the role and efforts of INFAH for the benefit of Poultry sector as well as other Animal producers and consumers.

Indian Poultry Review publications organized Biosecurity Summit at Kolkata and INFAH highlighted the role of Biosecurity in minimizing zoonosis, preventing spread

of infectious diseases, improving livability & profitability of producers . Biosecurity plays vital role in ensuring Healthy Animals & Healthy India

9. IVRI and INFAH Jointly Organized 4th Regulators – Animal Vaccine Industry Interface

The 4th Annual Interface of Regulators and Animal Vaccine Industry was organised at Division of Standardization, Indian Veterinary Research Institute (IVRI), Izatnagar. The interface was attended by 38 stakeholders of the Animal Health Vaccine Industry and the Regulatory infrastructure. The INFAH Biological Sub-committee participated in the interface. The group deliberated on the conventional, recombinant and autogenous vaccines and its prospects, regulations, constraints and its action plan. The interface had discussions on checklist and requirements for clearance of import vaccines and evaluation of vaccines supplied by Industry under government supplies. The group also discussed on the need to have a monograph on autogenous vaccines to regulate the segment.

10. INFAH initiated presence in social media channels

Linked in Page & Twitter handle of INFAH has been started & going forward these platforms shall be leveraged to enhanced communication of INFAH activities

11. INFAH participated in 17th Meeting of BIS

The 17th meeting of Food & Agriculture Department, Bureau of Indian Standards for Animal Husbandry, feeds and equipments was held at New Delhi The meeting was attended by around 30 stakeholders associated with the Animal Husbandry sector. The major points of discussion were Specifications for pet food for dogs and cats; Indian standards on livestock feed ingredients; code of practices for raising of egg laying hens; and Prudent use of antibiotics.

12. HR conclave

INFAH HR subcommittee



Atma Prakash Mamtni received INFAH Award from Anurag Agarwal

organized HR conclave To discuss and deliberate on Priority HR issues, challenges and solutions . Objectives of the conclave was to share and learn the best practices from each other. Key topics of discussions were on the demand and supply of the talent pool for future

Animal Health Industry, employee turn around etc. External speakers were invited to share the outside in perspective

13. Indian Pharmacopoeia 2018

The latest Edition of Indian Pharmacopoeia, IP-2018 was released in Sep 2017 The Indian Pharmacopoeia is an authoritative and legally enforceable book of standard of drugs manufactured/ marketed in India. On behalf of the Animal Health industry, INFAH supported the endeavor and worked cohesively with IPC for the IVth Volume of IP' 2018 oriented for animal health formulations, active pharmaceutical ingredients, biologicals and diagnostics. Considering the consistent persuasions of INFAH, IPC has agreed to market the Veterinary volume as part of the complete set as well alone as desired by the manufacturing units.

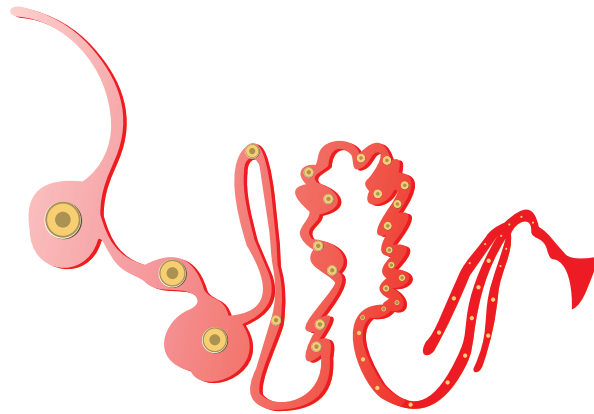
14. Herbal & Ayurveda in Animal Healthcare Ecosystem

Representation to concerned government officials / departments has been made for Incorporating Herbal & Ayurveda in Veterinary syllabus .Post-Graduation In Ayurveda Course - ICAR

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Committee has accepted this proposal and has sent for review to the panel of experts.

Dr P.G. Phalke (Treasurer INFAH) conducted the AGM proceedings & inform all the members of below updates :

1. Approval of Minutes of Meetings of 6th AGM
2. Annual report 2017-2018 presentation to members
3. Inclusion of PVS Labs, Indian Immunologicals & Rossari Biotech as new INFAH member company
4. Sharing of Balance Sheet for the year 2017-2018 & approval of the same
5. Appointing the auditors for next term
6. Membership Renewal Status

During the members forum INFAH Member Dr Abhishek Alivira brought the issue of counterfeit products sold in the market , Dr Ramdas Kamble (Chembond) shared his thoughts on changing dynamics of human resource function in Veterinary animal healthcare organizations, Dr Tanweer (Kemin) shared his views on leveraging ecommerce for increase access of animal healthcare products , Dr Jeevan (Novus) mentioned about issues related to Importation of feed additives, Mr Milind Limaye (Ceva) suggested for collaborative work with other associations on creation of white paper . The Managing Committee has made the notes of their respective feedback & shall be taken forward by MC. During the AGM **Mr Vijay Teng** Vice President addressed the members - INFAH is well positioned to shape the environment in Animal Health industry in alignment with changing

economic , regulatory scenario & contribute to the overall growth of India with the overall objective of **Healthy Animals , Healthier India**

Mr Vijay Teng expressed sincere gratitude towards the immediate & past presidents Dr Arun Atrey & Mr Satish Pasrija for there exemplary leadership & periodical guidance to the MC. INFAH Managing Committee took special effort to recognize contributions of sub committee members & the respective chairman's .

During the AGM Following Insightful presentation were made by Guest Speakers

1. GST Controversy around Feed Supplements and Drugs presentation made by Mr Krishnan Venkatasubramanian – KPMG , Supply Chain Efficiency under GST by KPMG

2. Presentation on Shaping Policy – Government, Regulatory & Industry by Mr D. G. Shah. Secretary General Indian Pharmaceutical Alliance
3. New Vistas in Rural Outreach Mr. Rajkumar JhaPresident – Rural Marketing Association of India

On the occasion of the 7th AGM, INFAH Recognized the contribution of individuals towards development of AH sector in the form of **“INFAH Award”**.

The **“INFAH Award ”**were presented to **Dr Asoke Benarjee** for his exemplary contribution to society at large and Animal Health Industry in particular. Dr Arun Atrey read the citation for him.Over a period of more than five decades he served relentlessly working

towards development of Animal Health sector. Dr Benarjee contributed significantly to enable access of quality & globally recognized products for the Indian farming community The **“INFAH Award”** were presented to **Dr Atma Prakash Mamtani** for his outstanding contribution to the Animal Health Industry Dr Jeetendra Verma read the citation . He contributed in the area of veterinary pharmaceutical marketing , product development , product promotion along with consistent interaction & admirable relationships with academicians , research workers, practicing veterinarians & farmers . All the awardees thanked INFAH for this award and delivered an Inspirational speech by sharing there success mantra with the audience.

Dr Shirish Nigam, Joint Secretary INFAH proposed vote of thanks. He Expressed sincere gratitude to entire managing committee for their continuous support. He Thanked Guest Speakers from KPMG Team, Mr D G Shah & Mr. Rajkumar Jha . He recognized the contribution of each INFAH member, Subcommittee members and support from Ms Bhavana , and her team members to help INFAH functioning as a responsible association. He thanked Dr Nitin Bhatia & Dr Rajni Choudhary for providing support in organization of the 7th AGM & INFAH Connect publication .He thanked the hospitality and arrangements done by hotel staff. The program ended with networking dinner.



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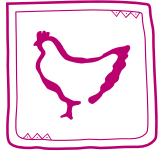
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Mr. Balamram Bhattacharma, Executive Vice President (Marketing & Sales)

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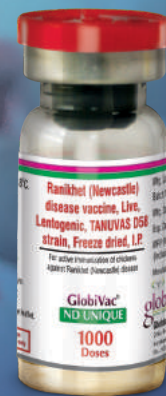


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Aviagen America Latina Extends Operations with Smart Incubation



Aviagen America Latina is expanding its single-stage broiler breeder hatchery at Santa Cruz das Palmeiras with an additional investment in Pas Reform's SmartPro™ advanced hatchery technologies, increasing capacity to meet product demand from across Latin America.

Aviagen is part of the EW Group, a key player in broiler genetics worldwide. Two years ago it established the 4,000m² hatchery on a green field site in Brazil's São Paulo state, installing Pas Reform's most advanced single stage incubation technologies to create a truly state-of-the-art hatchery that focuses on quality, sustainability and energy efficiency.

In this second phase of development, Aviagen's hatchery will be expanded with six SmartSetPro™-1, six SmartSetPro™-2 incubators, nine SmartHatchPro™ hatchers and a semi-automatic egg-transfer machine. Pas Reform do Brasil has supported the development of the expansion with engineering, technical specifications and design, to further optimize efficiency and sustainability. The setters are equipped

with Adaptive Metabolic Feedback™ (AMF™), a unique functionality that adapts the incubator environment specifically to the metabolic needs of the embryos. The Energy Saving Module™ (ESM™), delivers substantial energy cost savings and improved sustainability. The hatchers are also equipped with SmartWatch™, to deliver fine control for a reduced hatch window.

Aviagen has been supplying the region with day-old grandparent and parent stock chicks for several decades. In 2007, the company bought the assets of Agroceres Avicultura to form Aviagen do Brasil Ltd and was later renamed to Aviagen America Latina Ltd in 2010.

Today, Aviagen America Latina is one of Aviagen's main production bases, strategically located in a region that is easily accessible to major highways and close to Viracopos International Airport, Campinas. This facilitates the supply to large companies in Brazil and other countries in Latin America, in line with Aviagen's ambitions to support expansion in

the supply of high-quality, day-old chicks for the South American market.

Anselmo Micheletti, Aviagen America Latina's Technical Manager, says: "We have been collaborating with Pas Reform throughout our hatchery development programme in Brazil.

Therefore it should come as no surprise that our choice of the partner for this second phase of expansion was Pas Reform again.

"Pas Reform's SmartPro™ hatchery technologies mirror our vision of quality

and efficiency. They were the logical choice when we launched Aviagen's green field hatchery in 2016— and they remain the right choice for us as we look to the future."

Artur Schlick, Operations Director for Pas Reform do Brasil, comments: "Aviagen is an ambitious company. It has been a privilege to continue our work with them on this prestigious, state-of-the-art development project and support their continued growth in South America and beyond."

Srinivasa Farms to Adopt 30 Govt. Schools to Provide Eggs to Students as Part of Mid-Day Meal Scheme

Hyderabad: Srinivasa Farms is planning to adopt 30 government schools in Telangana for one year and provide eggs for students under mid-day meal scheme. It is part of the International Egg Commission (IEC) campaign worldwide, especially in the developing countries, to promote egg consumption to tackle malnutrition among children, said Srinivasa Farms, Vice-Chairman and Managing Director, Suresh Chitturi.

Mr Chitturi also the Vice-Chairman of IEC, told the media persons on the occasion of World Egg Day that eggs from poultry farms were not fertilized and vegetarians too can consume it as it was "no different from milk".

"Several campaigns will be taken up across the country to promote egg consumption at one lakh

schools in Tamil Nadu, Telangana, Andhra Pradesh and Karnataka. Apart from road shows, prominent chefs would be invited to create egg-based dishes through television and live shows highlighting the goodness of eggs," he explained.

The country stands second in egg production and fourth in broiler chicken in the world with annual production being 91 billion and 4.8 million tonnes respectively.

The highest egg per capita consumption is in south with TS at 130, A.P. at 120 and TN at 110 being the top three.

However, Mr Chitturi said the overall egg consumption in the country was low at 69 eggs per capita when compared to 180 as per the Indian Medical Council recommendations.



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Varsha Group holds its 4th Poultry Panorama at Phuket, Thailand

The panorama attracts good No. of India & overseas participants

Varsha Group, the Bangalore based poultry and animal health care products manufacturing company organised its 4th edition of Poultry Panorama on September 26, 2018



Dr P. B. Manjunath welcoming the participants

at Phuket Thailand. Dr Manjunatha, Director-Marketing Varsha Group welcoming the delegates said, "It gives immense pleasure to see the delegates from India, Nepal, Korea, Vietnam and Bangladesh on this neutral platform of Poultry Panorama 4th edition at Phuket."

Dr Manjunath said that Varsha are responsible and responsive to this industry and plays responsible part in the industry. Though this neutral mega event, we try to address four pillars of poultry: Nutrition, Management, Disease and Marketing". The journey of Poultry Panorama started from Bangalore in the year 2007, went through the second edition in Goa, then in Kuala Lumpur.

He introduced two eminent personalities to formally inaugurate the event. Major General Kharb and Dr J.L. Vegad. Mr Nanjaiah, Managing Director of Varsha Group accompanied them to the stage.

Dr Manjunatha said that Army Man slogs and pledges his life for the nation both during natural calamities, and on the border. He introduced Major General Kharbas representative of the army fraternity.

Major General Kharb, a distinguished Veterinarian has over four decades of professional excellence behind him. He was the Director General, Remount and Veterinary Corps (RVC) of Indian Army and



Major General Kharb lighting Lamp to mark inauguration of Poultry Panorama. Also seen Nanjaiah & Dr J.L. Vegad

retired after rendering 38 years of distinguished service in the Army. He was decorated with ATI VISHIST SEVA MEDAL (AVSM) by the President of India for rendering outstanding services to the nation. In recognition of his significant contribution towards advancement of Veterinary Sciences, he was awarded the prestigious fellowship of National Academy of Veterinary Sciences, India. Presently, General Kharb is the Chairman of Animal Welfare Board of India (AWBI), a statutory body

of Government of India which acts in an advisory capacity to Ministry of Environment & Forests on all matters pertaining to Animal Welfare and Animal Protection Laws.

Further, he introduced Dr J.L. Vegad as representative of entire scientific fraternity.

Dr J.L. Vegad is a Veterinary Pathologist of international repute. He was Professor and Head, Department of Veterinary Pathology for 25 years at JNKVV, Jabalpur



and retired as Dean. A B.V.Sc., (Gold Medallist) from Jabalpur (1958) and M.V.Sc. (1960) from IVRI, he obtained Ph D from



Wharehoe Lissington speaking on Silo Management

New Zealand under a Commonwealth Scholarship. His contributions to the study of sheep and avian inflammations are pioneering. He has

published more than 150 research papers, 60 of them in British, American and New Zealand journals. He has the distinction of receiving the prestigious "Rafi Ahmed Kidwai Memorial Award" of the ICAR for his outstanding contributions to veterinary pathology.



Guillermo Zavala, Avian Health International, LLC

He has contributed text books on veterinary pathology (general, systemic, special) and many monographs on poultry diseases. Honoured with several awards, fellowships and recognitions both in India and abroad for his outstanding contributions.

After lighting the lamp, Major General Kharb made a thought-provoking speech on patriotism and military leadership with an opening remark on guiding motto of Indian Army. He narrated some live incidences and concluded that most values and ethos of leadership and patriotism of military people are equally applicable to all of us in our civilian organizations in day to day life.

Dr Vegad shared his experiences of previous Poultry Panorama and how each edition has raised the bar and met the expectations of delegates, He praised the quality of speakers. He added that Varsha is the only organisation to spend for betterment of scientific knowledge in most neutral way without flagship of

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commercial brands. The first speaker of the Panorama Mr Yan Thoueille, is a graduated from University of Angers in technology on Biological and biochemical analysis. Started career in Group Grimaud – as Production and Quality Director Managing a production team of 300 people, later joined Hendrix genetics and served for six years. Served as Global Quality Director, Hubbard SAS – Broiler Primary Breeder responsible for Global Quality Strategy all over subsidiaries. (USA – Poland – Brazil – France), Working presently as Technical Services Director of Asia at Hubbard.

Mr Yan spoke on Breeder Management for high quality eggs and chicks. Mr Yan highlighted subclinical diseases and prevention through Biosecurity plans, Sampling frequency: balance between speed of detection and cost, Sample number (5% minimum prevalence detection) Sampling variability: Chose the relevant Materials. Further he highlighted proper fertile eggs management needs to be implemented to get good hatchability and premium chick quality. As the egg cools it sucks in everything on the shell, bacteria and fungus. He opined that day old chick quality depends for a large part on the quality of the hatching egg. Hygiene status of hatching eggs is determined in the first 3 minutes after lay. If storage is longer than a week turning eggs is necessary to reduce embryo mortality.

The session was chaired By Professor H.A.Upendra, Dept of Medicine, KVAFSU,

supported By Dr Jayanth Deshpande and Dr Ajay Deshpande.

Mr Hemanth Patel, Poshak Feeds from Gujarat presented a memento to Mr Yan.



Dr Grieve speaking on Extended Layers

Second session was by Mr Wharehoe Lissington, a graduate from New Zealand and Diploma in Dairy Technology. Has more than 20 years feed milling experience on site, managed project in China and Australia, Past Chairman and Board Member, New Zealand Feed Manufacturers Association. He runs Mill Op Consultancy.

He made a presentation on Silo management and hygiene. He presented 7 fundamentals of grain storage: Clean & treat empty silos and equipment, Inspection of the incoming grain, Sort to your standards, Aerate or aerate and chemically treat your grain, Monitor the grain and safety. He insisted the feed millers to take samples from the stored grain at regular intervals (fortnightly to monthly) to check fungal growth, moisture, temperature and insects. He stressed upon the safety, spills and large deposits of dust outside silos, around equipment will not only invite insects and rodents, but potentially be the source of a primary or secondary explosion. He presented videos of live incidences of hazards

The session was chaired by Dr Shivaji Dey and supported by Dr U.C. Patel and Dr S. Ravinder Reddy. Dr Sarath Babu, senior poultry consultant from Andhra Pradesh presented a memento to Mr Wharehoe Lissington addressed Post lunch session was by Dr Guillermo Zavala from Avian Health International, Georgia, USA. He obtained Master of Avian Medicine, Master of Science in Medical Microbiology, PhD in Medical Microbiology, Postdoctoral Fellow Molecular Virology from University of Georgia, USA. He was the Director of Veterinary Services Avian Farms International, Inc. USA, Merial Laboratories



Speakers with Proprietor & CEO of Varsha Group

USA and Served as Professor – Clinical Avian Medicine in University of Georgia. He is the founder and owner of Avian Health International consulting firm. He provides veterinary and husbandry advice in countries of the Americas, Europe, Australia, Asia and Africa. He addressed over 300 conferences in 5 continents.

He spoke on Recent trends

in Mycoplasmas and its control. Dr Zavala highlighted cost impact of mycoplasma in commercial broilers and layers. He highlighted why mycoplasma continues: Poultry industry infrastructure, Production systems facilitate MG & MS, MG & MS are not species-specific, Understanding Mycoplasma epidemiology and transmission, Tolerance to disease, Diagnostic capabilities, Diagnostic result interpretation, Lack of Personnel training and Commitment to disease control and eradication. He opined that combination of Medication, Vaccination and Biosecurity can control disease and single approach cannot control. He stressed

on holistic approach. He also stressed on mycoplasma monitoring and diagnostic protocol.

The session was chaired by Prof. K.S. Prajapati and supported by senior pathologist Dr A.G. Rao and Dr H.K. Muniyellapa, scientist from IAH& VB Dr M.L. Kansal, senior Veterinarian from Panipat presented a memento to Dr Zavala



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The last session was by Dr Douglas Grieve, Global Technical Services Director, Hy-Line International. He obtained B.S. degree in Animal Science, his Master's degree in Animal Nutrition and his D.V.M. from Michigan State University. He is a member of the American College of Poultry Veterinarians.

Dr Douglas Grieve is the director of the global technical service department at Hy-Line International. Dr Grieve is responsible for coordination and allocation of technical services to customers worldwide. He has worked



Varsha Group Team Members

in more than 75 countries providing support, technical advice, and conducting seminars for Hy-Line distributors and customers.

Dr Grieve spoke on extended layer, feeding and management for longer life cycle. Dr Grieve presented in-depth about layer management, he elaborated on Growth phases of pullets, dynamics of air temperature at cages and floor, light intensity, light hours on growth and development. He highlighted effect of pre-lay body wt on early egg wt with a data. He explained that how egg size is controlled by Genetics, Layer Body Wt, nutrition and lighting programme. The session was chaired

by eminent nutritionist Prof. Chandrasekaran and supported by Prof. N.K. Mahajan, Dean from Vety College, Hissar and Dr Shashibhushan, Mysore

Mr Achin Banerjee from Egg Industries, Raipur presented a memento to Dr Grieve

Dr Manjunatha proposed vote of thanks. He said "Sincerely thank all the speakers for the commitment, knowledge and the justice done to the topics". He made a special mention about Dr Jayanth Deshpande his help in identifying speakers. He thanked Mr

Santosh Nandnavanam for his relentless service and managing the event efficiently. Mr Nanjiah, MD, Varsha Group presented Mementos to Dr Deshpande and Mr Santosh. He also presented Bouquet to Mr Atman and Shyanbhag of Chariot World Tours for making all tour arrangements. Dr Manjunatha thanked Mr B.S. Rana, Mr Rakesh Bharadhwaj, Mr Dinesh Kumar, Mr Nazeer for press coverage.

Seminar concluded with good notes followed by networking dinner.

Delegates appreciated the timing precision, topics and speakers and the arrangements.

Trouw Nutrition India: Global Community Day with Sankalp Foundation



Trouw Nutrition team at their office premises

Hyderabad: Trouw Nutrition India, a Nutreco Company, dedicated one day to give back to the community. Every year all the employees of Nutreco participate in activities to help the local community as part of Global Community Day. This year on



20 September 2018, Trouw Nutrition India gathered at Sankalp Foundation, Hyderabad to do community service by supporting student education, health and improving the facilities at student hostel.

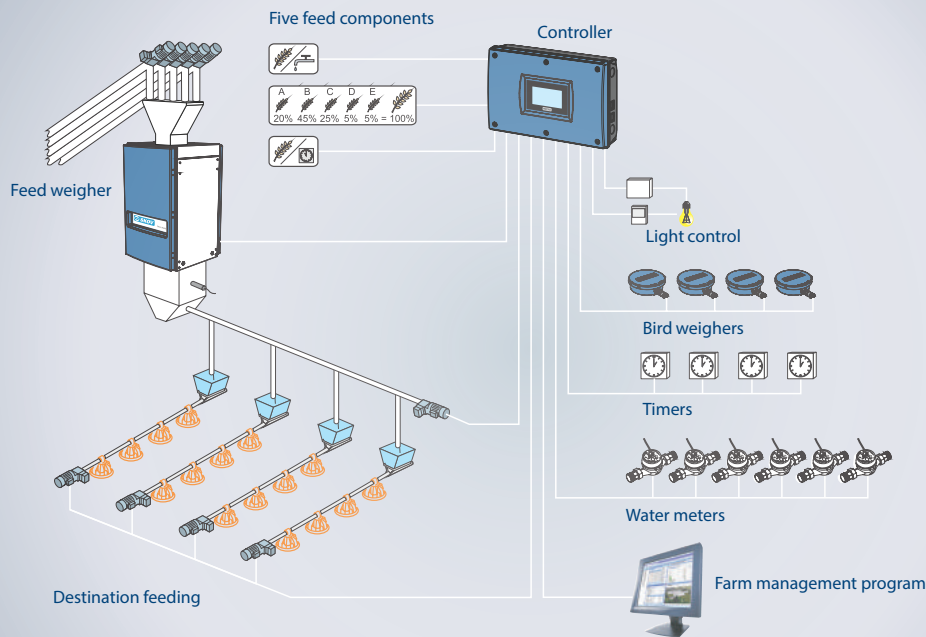
Sankalp Foundation, established in 2007, is a registered society that aims at emancipating destitute children by imparting education, giving shelter and developing skills to make them self-sufficient. The foundation runs an orphanage and a school called Sharda Vidyaniketan for underprivileged children.

As children are the future of our community, it is essential to ensure their

complete physical and emotional development. Trouw Nutrition India took this opportunity to make the students aware about personal hygiene practices and good habits. The students were also taught yoga and meditation for sound physical and emotional health. A class on "Motivation and Career Counselling" was taken for students of higher classes to help them in taking a decision for their future.

During lunch eggs were distributed to the students. Dr Saurabh Shekhar, MD, Trouw Nutrition India said "Eggs are a complete food and important for the children to ensure their complete development. They are a very good source of quality protein and are not expensive. We would like to educate these children on the importance of having a balanced diet and how eggs can help them achieve that."





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Climate for Growth

Tinder looking for India market for its Feed Mill Machinery



Wang Guorong, Chairman, Guangzhou Tinder Industry Co. Ltd

Guangzhou Tinder Industry Co. Ltd, the over 20 years old Feed Mill Machinery Manufacturer in China for Poultry, Aquaculture and Livestock sectors is working to serve the Indian industry with better technology products, said Mr Wang

Guorong, Chairman of the company through a note. Tinder is one among China's top three feed mill machinery manufacturers, he stated.

We have 23 years of development history. In the beginning, Tinder started by

manufacturing one single machine and today Tinder can provide whole turnkey project. In 2017, Tinder has sold 32 lines of poultry feed equipment and 17 lines of aqua extruded equipment, 6 lines of shrimp feed equipment.

Tinder Industry Co. Ltd located at Beixing Industrial Park, Huadu District, Guangzhou City, China with an area of 30,000m². It produces 80 to 100 lines of poultry and aqua feed equipment every year.

Tinder spreads throughout the country – China, and also reaches to Indonesia, Thailand, Vietnam, Bangladesh, Kazakistan and Cambodia.

For poultry feed machines, a complete range of Hammer Mills are the best selling products with consistent quality and 5% more capacity than similar products of top domestic brands. For aquatic feed machines, Pulverizer, Extruder and Dryer are the top selling products. Pulverizer is of 30% more capacity than the same kind of famous domestic brand and

wearing parts can be used longer time with good performance, he told.

Extruder has advanced technology and consistent quality with gearbox and screw bushing, which is of 20% more capacity than that of our competitors. Tinder has built up 620 factories and has provided more than 2000 lines of equipment. In 2017. Our sales turnover was RMB 4000 million that is 60 million in US dollars.

Indian market has good potential and Tinder attaches importance to it. There are three phases in our plans. Tinder provides an integrated solution for feed mill project with sufficient knowledge of the requirements of Indian customers. Tinder serves to improve the feed industry development of poultry and aquaculture.

With the development of Indian economy, the demand for animal protein is greater than before and Indian market has huge market potential. Tinder can provide you a complete feed production line and its products are competitive for good overall performance and cost effective. Tinder will be a favourable feed mill machinery brand in Indian market, said Mr Wang.



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Aviagen India Strengthens Customer Support

Oct. 25, 2018 – **Udumalpet, India.** – To strengthen its excellence in service to customers and equip them for success in a rapidly growing market, Aviagen® has expanded its sales and support team across India. The expansion is a direct response to India's increasing demand for the broiler breeder known locally as "308AP".



Mr Mohan Ramraj

Mr Mohan Ramraj takes up the position of Sales Manager, Southern Region, based in Coimbatore. With an extensive background in the fresh produce industry and agricultural information services Mohan will manage and grow Aviagen's business in the southern states of Tamil Nadu, Kerala, Andhra Pradesh, Karnataka and Telangana.

And, Dr Jayant Chandankhede has been appointed Sales Manager, Northern Region. Dr Jayant is a technical-commercial veterinarian with more than nine years of experience in agriculture and rural business. Based in Panipat,

he will support customers throughout the northern regions of Haryana, Punjab, Uttar Pradesh and West Bengal.

Joining the Aviagen customer service team is Dr Deepak Pratap Singh – a professional veterinarian with more than eight years of field experience in poultry, covering layers, broiler breeders and broilers. A native of Chhattisgarh, he will work closely with Dr Jayant, offering veterinary advice to Aviagen's customers in the north of the country.

Dr Ramakrishna, Aviagen head of Sales and Technical Service, comments on the growth of the team in India. "We're delighted to bring on board three experienced professionals to meet a strong demand in a market that will only continue to gain in momentum. They will complement our current team in providing solid, sound and practical advice on managing birds to give consistently good performance whatever the time of the year."

He goes onto say, "Aviagen's mission is to be the world's preferred supplier of quality broiler breeding stock so our customers throughout the globe can feed their local consumers with an affordable source of quality protein. Toward this goal, we work daily to help customers promote the health and welfare of their birds and the success of

their businesses."

India's Specific Market Needs

Aviagen is committed to the success of poultry growers in India, an important and rapidly developing region. The company leverages its extensive balanced breeding expertise to bring to market birds that offer a strong balance of broiler and breeder traits to meet diverse market needs.

The 308 AP has rapidly gained market share throughout Latin America and the US with its healthy growth rate, good chick numbers, high meat yield, and robustness – qualities that are also essential for farmers in the Indian market. "As a result of this balanced performance and its environmental hardiness, the "308 AP" as it is known by local producers has seen a tremendous increase in



Dr Jayant Chandankhede

popularity and demand in India," added Ramakrishna. To learn more about the balanced performance of the "308AP" Call Dr

Ramakrishna at Telephone: +91 4252 233650

About Aviagen

Aviagen® is a global poultry breeding company



Dr Deepak Pratap Singh

that develops pedigree lines for the production of commercial broiler chickens under the Arbor Acres®, Indian River®, and Ross® brand names. The Rowan Range® and Specialty Males® are specialty breeding stock from Aviagen that offer greater flexibility for customers to meet specific or niche market requirements. The company is based in Huntsville, Alabama, USA with a number of wholly-owned operations across the United Kingdom, Europe, Turkey, Latin America, India, Australia, New Zealand, and the U.S.A., and joint ventures in Asia. Aviagen employs more than 4,600 people and has a distribution network serving customers in more than 100 countries.

For further information, please visit www.aviagen.com

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OCP launches PHOSFEED in India

Srivet Hatcheries takes up Distributionship

Hyderabad & Vijayawada: OCP S.A. in association with Srivet Hatcheries organised PHOSFEED product launch meet in Hyderabad and Vijayawada in the first week of October 2018. Dr V.S.K.B. Kumar, Managing Partner, Srivet Hatcheries in his

MCP. Dr Kumar has been working on MCP for the past nine years and now has taken up PHOSFEED.

Mr Saad Lahjouji Idrissi, Sales Manager, Middle East and South Asia of the company said, PHOSFEED is a high nutritional value

Director, OCP India spoke on OCP S.A activities in India. Mr Subir Kumar Saha, Senior Manager, OCP Support Services Pvt Ltd was also present on the occasion.

PHOSFEED Use & Benefits

According to the company, PHOSFEED is the result of the chemical reaction of phosphoric acid with calcium carbonate under strictly controlled conditions. PHOSFEED is used as a main source of phosphorus and calcium in animal feeds mainly designed for breeding purposes in poultry, aquaculture and cattle. PHOSFEED strengthens the

in containers or vessels. All bags are labeled and identified by a unique batch number that enables the traceability procedure following international regulations.

Srivet Hatcheries is also producing Cobb broiler chicks since long and is a well known company in Andhra Pradesh and the neighbouring states.

Breeders, farmers, veterinarians and consultants from Hyderabad and Vijayawada surroundings took part in the meet.

In Vijayawada launch meet leading poultry stakeholders Dr K.Somi Reddy, Dr N. Nageshwar rao, Dr Butchiramaiah, Dr Subba Rao and others took part. From Hyderabad Mr Suresh Rayudu Chitturi, Mr



Dr V.S.K.B Kumar, Managing Partner, Srivet Hatcheries welcoming. Sharad Bhalla and Saad Lahjouji Idrissi are also seen.

welcome speech explained the market potential for PHOSFEED in Indian poultry market.

Till now Indian poultry industry is using mostly DCP as it is a low cost product. DCP is also imported from China. Some countries are shifting from using DCP to

product for livestock and it is manufactured by OCP S.A, Morocco. The company has its Indian office at Mumbai.

While 95% of share in OCP S.A is owned by Morocco Government, 5% shares are of National bank.

Mr Sharad Bhalla, Country



A view of participant at OCP launch meet at Hyderabad.



A view of participant in Vijayawada meet.

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K. G. Ananad, Dr Kalimuttu, Dr Avinash, Dr Ravinder, Dr Balaram Prasad, Dr Shelke, V. Sriram, Gopalakrishna, N. Rajasekhar Reddy, Ram Prasad, G.Venu babu and others participated.

Mr N. Srinivas Rao, General Manager and Mr Y. Venugopal Rao, Hyderabad Incharge of Srivet Group made arrangements for the launch meet.

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NuTech BioSciences Inc. USA Organises Seminar on Breeder Nutrition & Importance of Organic Minerals

Hyderabad: NuTech BioSciences Inc. USA, a new era technology driven company, specialized in organic minerals (Glycinates) had a successful event at Hyderabad on 7 September 2018 on Breeder Nutrition and Importance of Organic Minerals.



Dr Santosh Ire, Director, Bhuvana Nutribio Sciences welcoming

NuTech BioSciences India is associated with Bhuvana Nutribio Sciences as its Exclusive Marketing Partner for India and Nepal except south.

Dr Manoj Sharma, Director, Bhuvana and Mr Venu, NuTech, along with NuTech India team organized seminar effectively.

Dr Santosh Ire, Director, Bhuvana, gave welcome note and started the seminar.

Dr V.Ramasubba Reddy, a well-known senior Nutritionist and Scientist from Hyderabad, delivered his presentation on **“Broiler Management.”**

It's insight out practical inputs which helps the audience to re-understand the farming. A complete show on farming and management at commercial level!

Dr P.V. Reddy, CEO & Founder of NuTech, USA, presented about Nutrition through Technology,

Company journey, and Product range. An excellent detail which made everyone more confident on **Technology Solutions from NuTech.** Thanks for being in India!

The core of the event was felicitation of **Dr Anjaneya Prasad,** a well known and most esteemed face of the industry. A mentor and Guru to Dr P.V. Reddy. It was an emotion-filled time for each participant to be a part of this ceremony.

Most awaited presentation by **Dr Ajay Deshpande, Chairman, Siddhivinayak Breeding Farm, Pune.** An Indian face to Breeder



Dr D. Anjaneya Prasad being honoured with 'Life Time Achievement Award' by Dr Pratap V. Reddy, CEO, NuTech, USA. Dr D. Anil Kumar, Dr D. Radhika, Dr Padmaja Prasad. A, Dr N. Sadasiva Reddy and M. Jagdeshwara Reddy, GM, NuTech BioSciences India are also seen.

nutrition and management. He is called as **“A Breeder Man”** and **“Man of Field”**. He spoke on **“Optimizing**



Dr Ramasubba Reddy, Senior Nutritionist & Scientist

Breeder Performance.”

The session was very interactive and well-informed. Its power pack details from all aspects applied Science, Nutrition and Management for new performing breeds.

The event is being a blend of Science, Technology, Field level challenges and Emotion which made a delightful evening.

The event was followed by refreshments and dinner. Participants from Telangana Dr Kotaiah of Indbro Research Farms, Dr T. Krishna Reddy of Srinivasa Hatcheries, Dr Sudheer, SR Hatcheries,

Mr Venu Gopal, Dr Balasunderam, Dr Krishna Rao, Dr Gopal Kishan, Dr Praful Zyde, Sandhya Breeder Mr Narsimha Reddy, Prasanthi Breeders Mr Shiva Shanth Kumar, Heena Breeding Farm Mr Amjat Khan, Diamond Hatcheries Mr Srinivas,



Dr Pratap V. Reddy, CEO & Founder, NuTech, USA

Rajarajeshwara Breeder Mr Narsing Rao, Venkateshwara Breeder Mr Rajashaker Reddy, Venkatadri Breeders Mr Srinivas, Venkateshwara Farms & Foods Mr Satyanarayana Reddy, Vimala Feeds Dr Sachin, Dr M.V.L.N.Raju, Scientist PDT, Dr N. Sadasiva Reddy, DDAH, A.P, Dr K.S. Jawahar Reddy, IAS, Principal Secretary, Panchayat Raj Dept. A.P Govt, Dr Poosala Suresh, Senior Director R&D BMS, USA.

North- Mr Mohil, Omega Farms, Chandigarh and Mr Manoj, MG Marketing, Zirakpur, and **South-** Dr Natraja are key highlights. All significant poultry producers from Hyderabad graced the event with their presence.



Dr Ajay Deshpande, Chairman, Siddhivinayak Breeding Farm NuTech BioSciences expressed its heartfelt thanks and appreciated their participation and making the event grand success.

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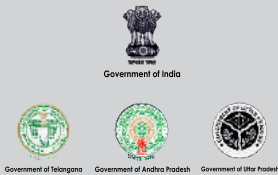
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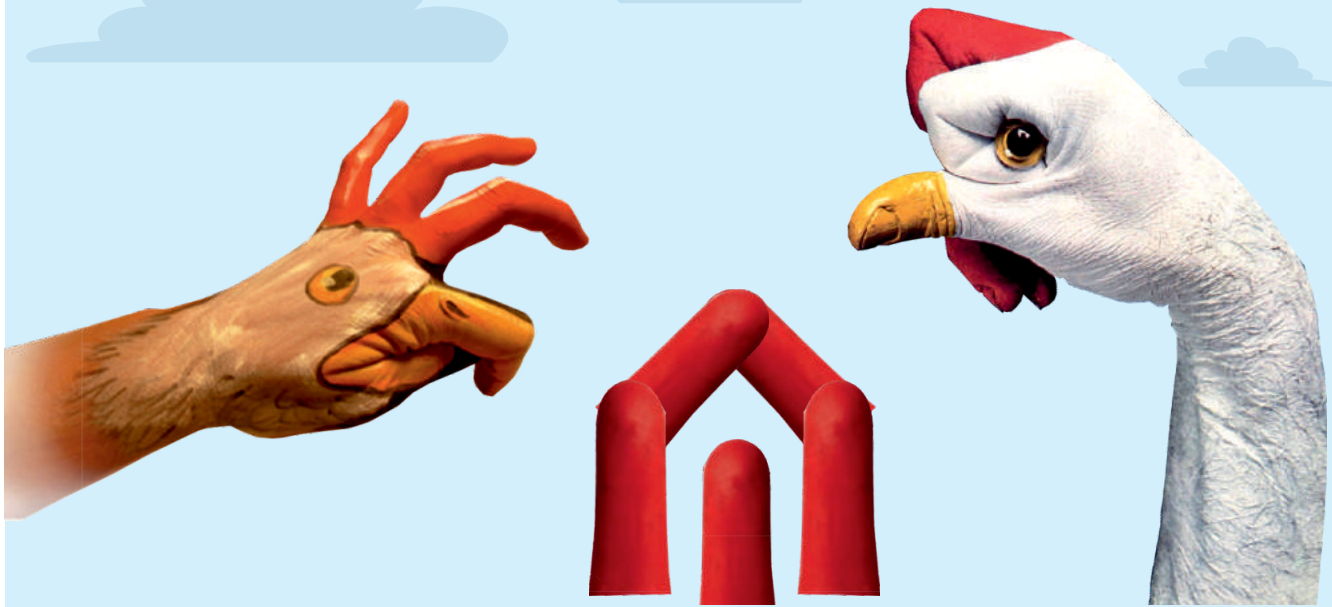
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Team Agrotech; Your Stepping Stone in Success



Team Agrotech Pvt Ltd, a leading Engineering Project Management Consultancy Company with headquarters at Nagpur, operating in India, offering total quality Engineering solutions, Front End Engineering Design and Commissioning of plants in the areas of Food and Feed production, Commercial Poultry Farming and allied sectors. Poultry Fortune Editor Mr M. A. Nazeer had an interview with Mr Rahul Laddhad, Director - Sales, Team Agrotech Pvt Ltd about its tie-up with CPM and their future plans and prospects. Excerpts:



Rahul Laddhad, Director - Sales

Based out of Nagpur, in the heart of India, it is easily placed to offer different range of services in a time bound and efficient manner to the customers across India.

Team Agrotech offer services in the areas of Process Design Engineering , Selection & Supply of Key Production equipment, Auxilliary Equipments, System components and process control and integrating all into a Turnkey and totally automated Production units, delivering continuous output with the most efficient and economic cost of production per ton basis.

What is the area of expertise of the Company?

Our area of expertise includes Complete Project management of Turnkey Solutions in the following areas:

- a. Planning, Design, Supply, Installation and Commissioning of Integrated Feed plants for Poultry, Floating Fish, Sinking Fish, Shrimps, Cattle etc.

- b. Balance of plant equipments for Pre & Post Processing .

- c. Complete Plant Automation Solution, on GATE in to GATE Out concept.

- d. Complete Infrastructural Solutions including Civil Construction and plant layout development.

- e. Total Solution for Environmental Controlled Sheds for Commercial Poultry farming.

- f. In-house design and manufacturing of Pre Fabricated steel structures for Plants, Warehouses, Grain Storage Silos etc.

Why Team Agrotech?

Team Agrotech has a vast pool of talented manpower both in-house as well as external consultants with more than 2 decades of experience and exposure in the feed industry , enabling us to deliver economic, efficient and state of the art Feed plants to our

customers.

We are proud to be the associates of **M/s CPM Asia** for their entire range of Pellet mills, Hammer Mills, Feeder, Conditioners, Extruders and other equipments for the Indian region. CPM is the pioneer in the field of Feed Processing solutions, and has been offering the top of the line equipments to the world market consistently for more than a century now. These key equipments offer consistent and uniform production for years together with minimum down time & maintenance, thereby increasing the

“ We are proud to be the associates of CPM Asia for their entire range of Pellet mills, Hammer Mills, Feeder, Conditioners, Extruders and other equipments for the Indian region ”

efficiency of the entire system.

Team Agrotech with its Project management expertise, and the bouquet of these CPM key equipments offers a unique business proposition to the Indian customers who can now be assured of a single point source for their proposed new feed plants.

We also have team of well qualified and professional contractors for the commissioning of the structures as well as all the other plant equipments.

Why Team Agrotech would like you to have a CPM Pellet Mill in your manufacturing Setup?

There are unique advantages of having a CPM pellet mill in your plant.

They are :

a. Lowest Energy cost per ton basis in the Industry

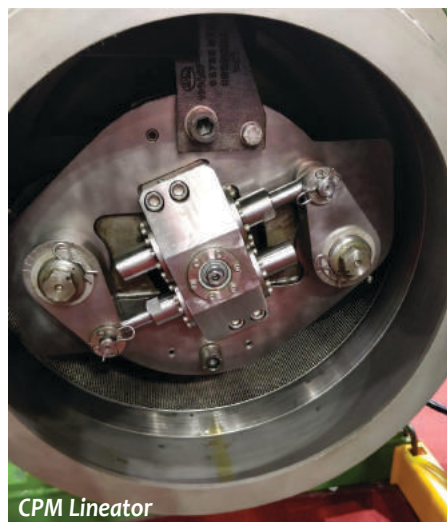
There are enough examples of CPM pellet mills using the lowest Power Units per Ton basis. The revolutionary one-piece cast gearbox drive train ensures maximum power transmission of more than 98% with minimum losses, which ensures minimum power consumption per ton. Thus reducing your cost per ton and increase in profitability.

b. Precise and Sturdy Dies and Rollers:

CPM manufactures every pellet mill roller shell with extreme precision using the highest quality steel with a special patented design. The roller shells provide high resistance to abrasion, breakage and corrosion thus increased life.

c. Increased output :

The pellet mills are built to operate



CPM Lineator



Hashir, Application Engineer

24 hours a day under tough running conditions, to match the necessary output requirements.

Why Team Agrotech should be selected for your new proposed Feed Plant project?

1. Competence In Complete Solutions

Whether you want a new production plant or a revamp of your existing equipment, it's crucial that you have a reliable partner with extensive know-how and experience. Team Agrotech offers turnkey solutions complete with buildings and infrastructure, tailor-made logistics, and all the auxiliary equipment you need. This end to end solution ensures the results which you want, increased production at reduced cost per ton.

2. Project Management

Extensive experience and a well developed proven procedure that coordinates all activities, guarantees quality and monitors on-time, on-budget performance. So you always know the exact status of your project.

3. One partner for all services

As the Main Contractor, we have a wealth of experience in implementing large-scale turnkey projects in the Food and Feed industry. This in fact means, you discuss everything with a single point of contact and ensure smooth and faster implementation at the project site.

4. Unique Design & Plant Layout:

We have the ability to design the plant as well as place the flow of equipments

in such a way so as to ensure optimum production with minimum wastage and reduced energy intake. With our unique Flow Chart and detailed engineering layouts, the Client is able to understand the entire process of manufacturing at the concept level itself.

5. Control and automation

With in-house expertise in providing total automation solution, we have introduced a concept of Gate-in to Gate-Out seamless flow of material with control at each point. So right from the moment the Truck enters the Raw Material unloading bay to the packaging section where the finished goods are loaded for dispatch. You have the total access, monitor and control on each and every section of your plant while sitting in your office. Thus by a touch of a button you can regulate the flow of the cycle.

We have the technical expertise and ability to offer complete automation, covering the entire plant from Raw Material Handling, Batching, Mixing, Grinding, Pelleting, Cooling, Bagging and Despatch, so that you can be assured of your continuous production cycle.

Experience in the Industry:

We are involved in the implementation of a 1000 TPD Poultry Feed Unit in Rajpura Punjab. The entire project is being done on a Turnkey basis with key equipments along with pre & post equipments, along with complete plant automation on a Gate-in to gate-Out Concept.

We are also offering them Pre Engineered Building structures for the various plants, raw material storages and finished product warehousing in the project.

We are keen to partner with the Indian Feed Manufacturers in all their forthcoming projects and be their Stepping stones to success.

CPM Products

CPM Pellet Mill

3000 Series

The 3000 Series Pellet Mills are popular for general-line feed mills, plastics, industrial products and shrimp feeds. They have replaced the popular CPM Century line of pellet mills.



Features:

- Splash lubrication
- Remote roll adjusting (lineator)
- Roll speed measurement (RSM) on select models

Coolers

A good pelleting system is never complete without a good cooler. That's why CPM provides coolers that give you optimum cooling and drying to cater to your needs. Designed with minimal floor space in consideration, CPM offers cooler in a variety of width and length with options to match their specific cooling needs. High efficiency and ease of operation. Get yours from CPM now!

Horizontal Cooler

The Heavy-Duty Horizontal Dryer/Cooler by CPM Roskamp is designed for the most demanding cooling and drying applications. Perfect for popular applications including pellets, meal, expanded collets and cake and more, the HDHC Horizontal Dryer/Cooler offers multiple feeder, plenum and steam coil options. Along with CPM's expert knowledge and support, this machine is ready for anything.



Features:

- 3-foot to 8-foot widths
- 9-foot to 63-foot lengths

Crumbler

CMX/R Series

CPM Crumblers are well known for being high capacity and high efficiency in the market. Its compact installation and high quality construction make these machines one of the best available. Keeping its design simple throughout these years, you can rely on CPM for high efficiency and ease of operation always.



Key Advantages

- Robust construction ensures maximum performance, 24x 7.
- Load-centering bearing supports & unique bearing slides assure accurate, consistent production.
- Roll corrugation and speed differential ratios
- Roll corrugations last 90-100 days at full capacity
- Easy access doors for roll change with minimal disassembly required
- Improved IRD belt wrap minimizes slip, Fans behind roll sheave circulate air, Reduce belt temperature and increase belt life, Guard design allows easy access for MD & IRD, IRD belt wrap & idler simplify belt change, Roll parallel adjustment is quick and easy.

Conditioners

CPM Conditioners provide the optimum preparation of mash prior to pelleting. The optimum conditioning of feed allows you to get the best performance out of a CPM pellet mill. It also gives a higher production throughput, better pellet durability and improved digestibility at a reduced pellet mill power consumption. Made from stainless steel and comes with a feeder magnet and optional features, our conditioners are definitely cost effective. Complete your CPM pellet mill with a CPM Conditioner to ensure that you get the best pellets.

Long Life (LL) Series

The Feeder comes in 2 sizes ; 9.5" and 12" catering to customer's requirement. The feeder, made of heavy duty shell, also comes with the options to include a magnet (to remove metal objects) and a variable frequency drive to

control the speed of the feeder to allow constant flow of mash.



Features:

- Heavy duty, stainless steel construction
- Adjustable picks
- Single or stacked configurations
- shaft-mounted gear-reducer drives
- 80 to 300RPM shaft speeds
- Single or stacked configurations

For queries, Contact:

Hashir, Application Engineer

Email: hashir@teamagrotech.com

“ CPM manufactures every pellet mill roller shell with extreme precision using the highest quality steel with a special patented design. The roller shells provide high resistance to abrasion, breakage and corrosion thus increased life . ”



A view of feed mill

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Butyric Acid – A Potential Ingredient Among Antibiotic Alternatives for Poultry

Amit Kumar Das

Kemin Industries South Asia Pvt Ltd

In past few decades, tremendous improvements in the genetic potential of both broiler and layer chicken breeds had been made. To leverage the maximum genetic potential of modern chicken breeds, intensive rearing system was adopted by poultry producers. Under such type of rearing system, the birds are exposed to various stresses due to rapid growth, environmental challenges, immune suppression, etc. This makes the birds more vulnerable to infectious pathogens leading to illness, decrease in performance and mortality. To minimize these losses and enhance the growth and productivity, antibiotics have been used by the poultry producers as in-feed medication since a long time. Constant use of antibiotics can possibly lead to the emergence of resistant strains of bacteria which is a global concern. Several countries have already banned the usage of antibiotics in animal feed for growth promotion, and awareness is growing in other countries too. This necessitates usage of alternatives to antibiotics for reducing microbial population, particularly in the intestine. Several products have shown encouraging results in replacing antibiotics for improving growth and performance. Prebiotics, probiotics, organic acids, essential oils, etc., are commonly used as alternatives to antibiotics. Organic acids, especially short chain fatty acids (like butyric acid, formic acid, propionic acid, etc.) has shown encouraging results in improving growth, reducing the pathogen load in gut and improving intestinal morphology.

In birds, short chain fatty acids are produced mostly by microbial fermentation of undigested carbohydrates in the hind gut. These short chain fatty acids are rapidly absorbed by colonic epithelial cells and is used as energy source. Among the short chain fatty acids produced in the intestinal lumen, butyric acid is found to be more effective in improving intestinal health. Butyric acid in native form is liquid and has a pungent smell. For animal feed, it is available as salts of sodium, potassium, calcium or glycerides, which helps in turning it to solid form and reduces the odor. Most of the dietary butyrate is absorbed in upper gastrointestinal tract. So, the benefits of butyric acid don't reach lower intestine. To overcome this, coated form of butyric acid is used. Coated form of butyric acid has advantage over other forms due to its slow releasing capability. This ensures butyric acid to be released effectively throughout the gastrointestinal tract. Mostly, antibiotic growth promoters (AGP) improve performance by regulating the intestinal microbiota leading to increased nutrient utilization and reduction in maintenance costs of the gastrointestinal system. Many studies have been conducted to demonstrate antimicrobial activity of butyric acid. The antibacterial property of butyric acid is high in un dissociated form. Butyric acid enters the bacterial cell by diffusion. In the neutral pH of bacterial cytoplasm, butyric acid dissociates into butyrate and hydrogen ions. The butyrate ion has toxic effect on the bacterial cell. The hydrogen ion formed, lowers the cytoplasmic pH. This reduction in cytoplasmic pH

affects the purine bases and denatures enzymes (inactivating bacterial decarboxylases, catalases, etc.,). The bacterial cell requires additional energy to pump out the excess hydrogen ion. This depletes the bacterial cell of energy. The combined effect of all these actions ultimately causes exhaustion and death of the bacterial cell. The antimicrobial action of butyric acid on Salmonella sp. and Clostridium perfringens is well documented.

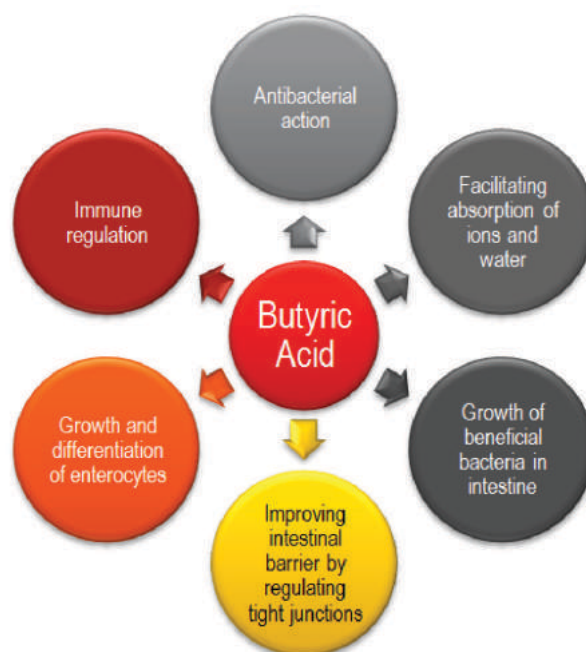


Figure-1: Multiple effects of butyric acid

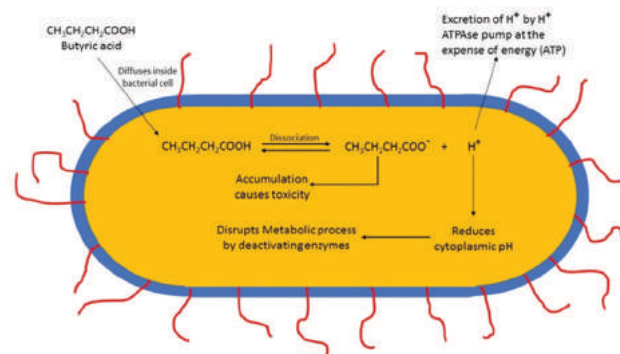


Figure-2: Bactericidal action of butyric acid

Another way butyric acid works against pathogens is by reducing intestinal pH. Butyric acid upon entering intestine, dissociates and liberates hydrogen ion, which reduces the intestinal pH. This lower pH of the intestine favors growth of certain beneficial bacteria like Lactobacillus sp.,

Bifidobacterium sp. etc. These beneficial bacteria help in reducing intestinal pathogen load by various mechanisms like stimulation of the immune system, competition for nutrients, competitive exclusion and production of antimicrobial substances.

The epithelium of intestinal mucosa plays an important role as a barrier between the animal and intestinal microflora as well as harmful substances in the lumen. There is constant immunological challenge in the intestine to fight against the pathogens. Damage to this epithelial layer can incite inflammatory responses which can affect absorption of nutrients. The integrity of this epithelial barrier depends on tight junctions between the epithelial cells. Any damage to these tight junctions will cause a condition called ‘leaky gut’, letting antigenic or toxic loads to “leak” into the general circulation and lymphatic system. Several microbes and toxins are known to disrupt tight junctions. It has been found that administering butyric acid enhances this epithelial barrier by regulating the assembly of tight junctions.

It has been found that in small intestine butyric acid helps in improving villi development, gut morphology and function. Increase in villus morphology can be attributed to increased epithelial turnover. Intestinal epithelium constantly keeps on shedding and regenerating. This turnaround takes around 24-96 hours. This regeneration of epithelium requires energy and other nutrients. Butyric acid is the preferred energy source for the enteric cells. After absorption of butyric acid by enterocytes, it undergoes β -oxidation in mitochondria and converts into acetyl-CoA, which enters citric acid cycle to produce adenosine triphosphate (ATP).

Butyric acid also has anti-diarrheal property. In diarrhea, water and sodium are less absorbed, leading to excretion of more fluid and electrolytes through feces. Administration of butyric acid promotes absorption of sodium and potassium uptake by the intestinal epithelial cells. This causes osmotic changes in enteric cells, leading to more absorption of water from the intestinal lumen.

Several experiments have been conducted to study the effect of butyric acid in improving bird’s performance and is well documented. It has been found that feeding butyric acid to commercial broiler birds improved body weight gain (Fig. 3) and feed conversion ratio (Fig. 4). The improvement in performance of commercial broiler birds fed butyric acid is comparable to what is achieved by using AGP alone (Fig. 5 and Fig. 6), which advocates its potential to be used as substitute for AGP. Heat stress is another important factor which has deleterious effect on intestinal integrity, making birds more susceptible to enteric pathogens. Supplementing feed with butyric acid has shown to improve intestinal integrity in heat stressed birds, thereby improving performance, intestinal morphology and microflora composition in heat stressed broiler birds.

Thus, it is apparent that butyric acid helps in improving intestinal integrity by various mechanisms. Antibacterial property, as an energy source for enterocytes, improving intestinal morphology and facilitating mineral absorption are few among them. Butyric acid checks proliferation of enteric pathogens and absorption of toxins into systemic circulation, thereby improving carcass characteristics and performance of broiler birds. Hence, butyric acid can be a potential ingredient among antibiotic alternatives for improving intestinal integrity and performance of chickens.

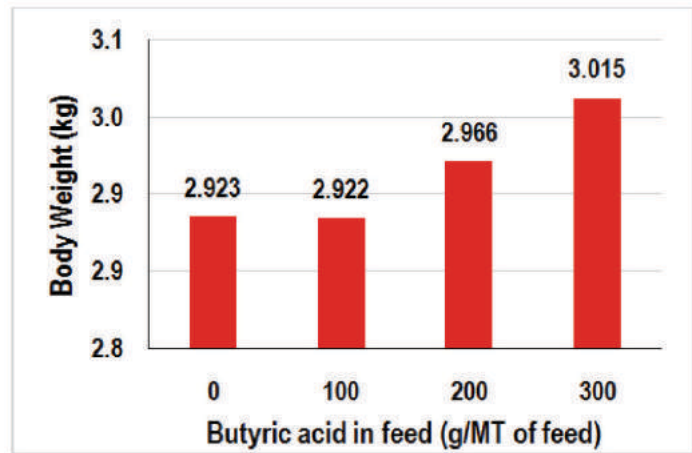


Fig. 3: Effect of feeding encapsulated butyric acid on body weight of broiler birds

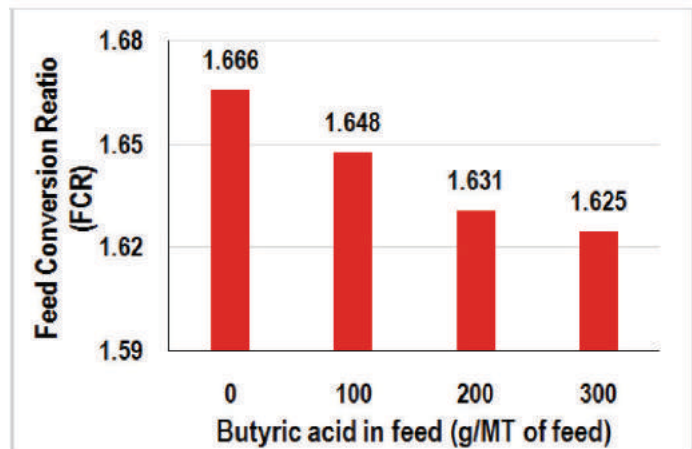


Fig. 4: Effect of feeding encapsulated butyric acid on feed conversion ratio of broiler birds

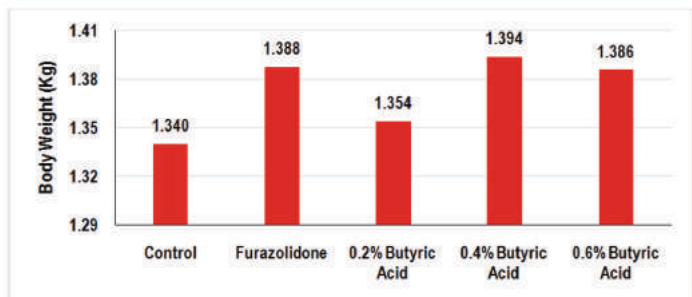


Fig. 5: Performance of broiler chickens (body weight) fed diet containing butyric acid and antibiotic in the feed

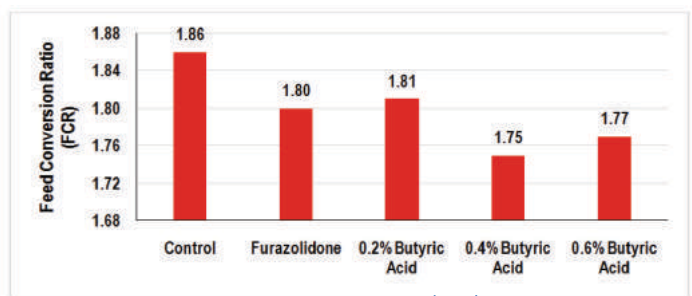


Fig. 6: Performance of broiler chickens (FCR) fed diet containing butyric acid and antibiotic in the feed

The Threat of Mycotoxins in India

Dr Sarwar Ahmed

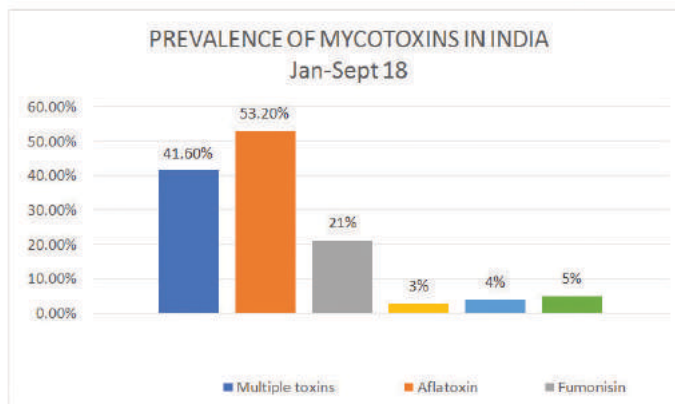
Asst Manager Techno-Marketing, EW Nutrition India

A mycotoxin (Greek word mykes, “fungus” and toxikon, “poison”) is a toxic secondary metabolite produced by organisms of kingdom fungi. One mold species may produce many different mycotoxins and several species may produce the same mycotoxin. Most fungi are aerobic (use oxygen) and are found almost everywhere. They consume organic matter wherever humidity and temperature are favorable. The production of toxins depends on the surrounding intrinsic and extrinsic environments. These substances vary greatly in their toxicity, depending on the organism infected and its susceptibility, metabolism and defense mechanisms.

So far, several hundred mycotoxins have been identified that show a structural diversity resulting in different chemical and physical properties. The chemical diversity influences the effects of these toxins in animals. The different mycotoxin classes include acidic (fumonisin), polar (aflatoxin) and non-polar (zearalenone) mycotoxins. Basically, mycotoxins can be classified as polar to non-polar molecules; however, there are several that fall in between. The arrangement and geometry of atoms in some molecules exhibit a positive electrical charge on one end and a negative charge on the other side of the molecule. If this is the case, the molecule is called a polar molecule, meaning that it has electrical poles. Without electrical poles the molecules are defined as non-polar. (Karin Naehrer, 2014)

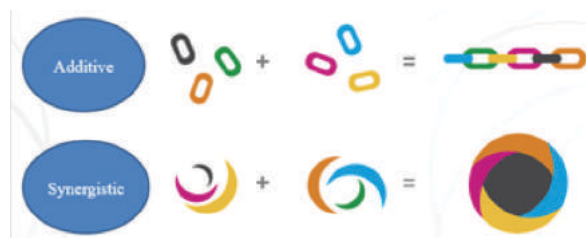
The presence of mycotoxins results in significant health disorders and considerable economic losses due to immune suppression, liver damage, kidney lesions, enteritis and oral lesions which in turn lead to reduced feed intake, reduced weight gain, diarrhea, reduced egg production, reduced DOC (day old chick) quality. Immunosuppression results in increased sensitivity to infective agents and a poor vaccine response. Moreover, mycotoxin residues in poultry meat, eggs and products derived from them pose a threat to human health

EW Nutrition continuously performs in-depth analysis of mycotoxins in poultry feed and raw material throughout the country. This article includes the mycotoxin analysis report from 1st January to 30th September, 2018. Around 900 samples of raw material & finished feeds were tested throughout the country in which more than 50% of the samples were found positive for Aflatoxin (20 ppb to >150 ppb) and more than 40% samples positive for multiple toxins. The prevalence of samples with single & multiple toxins was found as follows:



Multiple toxins in a sample increase the losses either by synergistic or by additive interactions

Additive interactions occur when the effect of a combination of two mycotoxins is equal to the expected sum of individual effects of the two toxins. Synergistic interactions of two mycotoxins lead to a greater effect of the mycotoxin combination than would be expected from the sum of their individual effects.



Synergistic Interactions	Additive Interactions
Aflatoxin - T-2	Aflatoxin – DON
Aflatoxin - Fumonisin	Aflatoxin – Fumonisin
DON - T-2	DON – Zearalenone
Aflatoxin - Ochratoxin	Fumonisin - T-2
Fumonisin - Ochratoxin	Ochratoxin - T-2

Highlight Points

- The menace of mycotoxins in poultry feed is causing huge production & economic losses
- The co-occurrence of mycotoxins (multiple toxins) is very common and also increases the threat many folds by additive or synergistic interactions
- EW Nutrition provides a comprehensive Toxin Risk Management through analysis of toxins, risk assessment and recommendations by Mycotoxin Risk Tool and a complete Mastersorb range

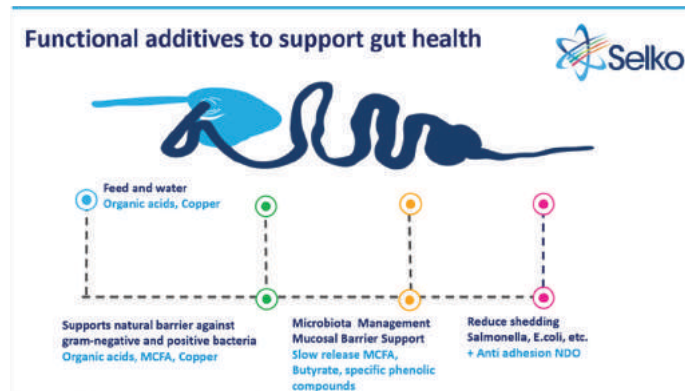
EW Nutrition provides a comprehensive toxin management program which starts with mycotoxin testing with high accuracy followed by risk and dose evaluation by an advanced software known as “Mycotoxin Risk Tool” or MRT based on the presence of single or multiple toxins in samples. MRT can also be accessed by all without any log in credentials simply by clicking on www.masterrisktool.com

Organic acids can support antibiotic reduction strategies with a consistent anti-bacterial effect

The animal production industry keeps searching for strategies to reduce antibiotics while maintaining profitability. Even though the experts already made clear there is not a single solution to the dilemma, the forecast is promising for the industry. An integrated approach seems to be a sound base to face the challenge. And the use of organic acids for health management, a solid partner for it.

According to Dr. Juan Antonio Mesconero Escuredo from Trouw Nutrition, "There is not a 'magic bullet' to decrease or eliminate the use of antibiotics in animal production. It is necessary to implement a complete multi-disciplinary approach that integrates feed, farm and health management". Synergistic blends of organic acids applied in drinking water and feed may support producers' antibiotic reduction programmes.

Organic acids for health management and performance improvement



After the EU banned antibiotic growth promoters (AGP) in 2006, many European animal producers started using organic acids to maintain growth performance, with good results. Nowadays, organic acids are globally used in animal nutrition for microbial management and gut health support. Their use could increase body weight, improve feed conversion ratio and reduce colonisation of pathogens in the intestine.

"The buffering process determines in which part of the intestine those acids will work, giving room for combined strategies to preserve gut health", Mesconero Escuredo says. A trial conducted at R&D facilities of Trouw Nutrition showed that organic acids like Selko pH when applied in drinking water of birds, they had body weights (2.97 kg) similar to birds receiving in-feed antimicrobial growth promoters (AGPs) and numerically higher body weights compared to birds in the control group (2.92 kg). Footpad quality was significantly improved in birds receiving organic acids in drinking water compared to birds receiving AGPs and control group. Mortality rates (4.4% on average) of birds given organic acid in water was significantly lower compared to birds receiving AGPs (7.72%).

Another trial showed that the addition of feed additives like Selacid GG to birds' diet resulted in health and performance

benefits comparable to broilers receiving in-feed AGPs. Feed intake was comparable across all groups, however, average daily gain was numerically increased on addition of feed additive. The addition of an additive to the sub-optimal diet may improve nutrient digestibility and allow broilers to grow at a similar rate as broilers fed with the standard diet. The cost per kg gain was lowest for birds receiving the standard diet supplemented with feed additive compared to birds receiving diet without feed additive.

An integrated approach for antibiotic reduction

Implementing an integrated approach, Mesconero Escuredo says, has proved to successfully allow a reduction in the use of antibiotics while maintaining or even improving profitability. How to bring this integrated approach to the market? The Trouw Nutrition expert explained that working in programmes that combine feed, farm, and health strategies is key for that. Those programmes combine know-how, services and products to help producers achieve their goals. Improving feed management includes managing raw materials, formulation, and feed safety. Farm management involves not only biosecurity but also climate and water quality. Health management concerns having an appropriate vaccination strategy in place, performing intestinal health scorings, and the use of feed and water additives. However, Mesconero Escuredo stressed, every case is different and every situation requires a tailor-made approach.

About Trouw Nutrition

Trouw Nutrition, a Nutreco company, is a global leader in innovative feed specialties, premixes, feed additives and nutritional services for the animal nutrition industry. It provides products, models and services to boost productivity and support animal health through all life stages. With unique, species-specific solutions, Trouw Nutrition has been meeting the needs of farmers and home-mixers, feed producers, integrators and distributors since 1931. Headquartered in the Netherlands, the company has locations in 28 countries and employs approximately 8,000 people.

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Nutritional and Managemental Interventions for Heat Stress in Layers

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Introduction

In tropical countries, heat stress is one of the major challenges in Poultry Industry which makes it difficult to maintain the egg production and liveliness of the birds during summer. Researchers have been working to develop techniques to improve the sustainability of birds during stress conditions. Situations worsen when high temperature is accompanied by high humidity. Due to the continuous increase in global warming, it is time to develop better managemental practices for birds during heat stress conditions.

Stress

Any internal or external stimuli that leads to change in normal homeostasis or equilibrium of an organism is called as stress. There is a thermo neutral zone for birds (19°C to 22°C for laying hens) which describes the balance between the amount of heat produced and the amount of heat lost from body without any stress conditions. Although, this zone depends upon many factors like feed intake, housing conditions, etc., whenever temperature goes beyond this range, birds feel stressed and try to maintain body temperature through various mechanisms.

Mechanism of Body Heat Regulation in Poultry

All metabolic activities involved in maintenance, growth and egg production lead to heat production in birds and are influenced by many factors like species, breed, body weight, level of production, feed intake, feed quality and to an extent by the amount of activity. Generally, when birds are in comfortable environment, a balance in heat produced to the amount of heat dissipated from body occurs. The regulation of body temperature in birds mainly occurs through five mechanisms as radiation, conduction, convection, evaporation and excretion.



Fig-1: Fans

Heat lost through the process of radiation does not require any medium and it is transferred from a body with high temperature to the body with comparatively lower temperature, i.e. from bird to the environment (walls/ cages). Hence, birds tend to raise their wings to let the heat dissipate from poorly feathered areas such as parts under the wings. Heat released via conduction is a way in which heat is transferred from a body with higher temperature to a body with lower temperature by direct contact. Bird tries to get in contact with cages or other birds to lose the excess heat produced. This is not a very good method because cage temperature also increases as environmental temperature

increase. Foggers and fans play vital role in this situation. Body heat lost through convection happens by the removal of heat through temperature gradient with the help of a medium. Blowing cool air over the cages is an effective way to reduce heat, but it aids only when air is moving fast



Fig-2:Fogging

enough to agitate the air surrounding the birds. When the environmental temperature increases to an extent that birds are not able to maintain the balance of heat exchange, the mucus membrane in nasal cavity acts as a medium which helps to get rid of excess body heat through respiration. That's why panting is considered as most obvious clinical sign of heat stress in poultry. However, panting is effective only if humidity is not too high. Therefore, hot and humid conditions are more stressful than the hot dry conditions.

Excretion is another method to lose body heat, wherein, birds increase their water intake up to double during hot periods and excrete the heat through urine and wet faces. There are many other behavioral, physiological, hormonal and molecular changes that occur in birds during heat stress to maintain their body temperature. These signs may be temporary or may persist for longer duration if the problem of heat stress continues.

Management of Heat Stress

There are many strategies farmers follow these days to compensate the increasing environmental temperature. Some of them are summarized below.

1. Farm Managemental Approach

Rising temperature and humidity makes feed intake difficult for the birds. Fans are used in this case to maintain air circulation in sheds (Figure-1). During conditions of high temperature and normal humidity, a fine mist of water is sprayed on birds during day time (Figure-2). It must be ensured that the mist is fine because larger water droplets



Fig-3: Wet curtains

make feed and litter wet which may lead to fly growth. The process needs to be repeated at regular intervals for a short period depending upon the environmental temperature. Farmers use wet curtains on the sides of sheds so that the air entering sheds becomes cooler (Figure-3). These curtains should be



Fig-4:Insulation of tanks

removed when there is no air flow because it will increase the humidity inside sheds and may lead to increased mortality.

Covering water tanks with materials like gunny bags can help in cooling the water (Figure-4). Placing water tank inside the shed can also help to keep the water cool during the day times, but it is

possible only for smaller sheds. Use of water sprinklers on the roof (Figure-5) lets the environment inside shed remain cooler. Farmers cover there of sheds with the insulating material, depending upon the availability of material (Figure-6). Whitewashing the roof area to reduce the heat absorption and increase reflection is also an option.

Birds don't prefer to drink warm water during day time. Hence, regular flushing of water pipelines is done so that birds get relatively cooler water. Before flushing, farmers follow the practice of giving electrolytes and other medicines to the birds. The process of regular flushing reduces mortality due to heat stroke and dehydration. Maintaining sufficient housing space for birds in summer decreases the heat stress, as birds need more area for physical activities to lose body heat. Manure should be removed from the sheds because the heat produced from decomposition of manure leads to increase in temperature inside the shed and poor ventilation. Feed intake during day time leads to production of heat and cause stress. Hence, birds tend to eat in cooler hours of day. Feed should be given either early morning or in late evening. Some farmers also follow the practice of feeding at night. Providing feed and water at proper time is the key to save the birds in such conditions.

2. Nutritional Approach

Energy

The heat increment produced by protein metabolism is higher than that of carbohydrates, which in turn is higher than fat. This is the reason to increase dietary energy levels by inclusion of oil and reduce protein level under heat stress situations. Also, emulsifier needs to be added in diet for better digestion and absorption of oil.

Protein

The protein requirement during heat stress is decreased because of reduced production performance. It has been observed that protein synthesis is more affected than breakdown leading to reduced protein formation. The

decreased protein synthesis cannot be compensated by giving high dietary protein. The high dietary protein level at high temperature reduces feed efficiency, increases stress and mortality, reduces body weight and production performance of birds. Hence, nutritionists reduce crude protein (CP)

percentage in feed to cope up with this situation.

Minerals

The percentage of mineral mixture is increased in diet depending upon the reduction offered intake. Normally 15-20% increased mineral diet is provided to birds, so that it helps to reduce production and mortality during heat stress. Chromium has proved to be one of the best nutrient during heat stress conditions to control increased glucose levels in blood, thereby increasing glucose uptake into the cells making it available for various body functions. The action of insulin is strengthened by chromium in vivo and in vitro. There are two theories about the mechanism of action of chromium, i.e., it increases the number of insulin receptors on cells and, it enhances the capacity of already existing insulin receptors to get attached with more glucose molecules to increase its inflow.

Vitamins

As feed intake reduces during summer, the amount of vitamin premix is increased in the feed to meet the requirement of birds. Oxidation of feed leads to production of free radicals and it is an auto catalytic process. The production of peroxides during the process of oxidation, further interact with air to produce hyperoxides. These compounds are unstable and produce more free radicals generating a chain reaction. This damage the cells disrupting the normal functioning and reduce absorption. Birds can synthesize Vitamin-C in general, but this amount is insufficient under heat stress conditions, high relative humidity, high productive rate and parasitic infestation. The antioxidant activity of Vitamin-C protects against the damage caused by free radicals. Also, Vitamin-E



Fig-6: Insulation of roof-top

supplementation is beneficial for birds in egg production, associated with an increase in feed intake, egg yolk and albumin solids. Vitamin-E should be added before, after and during the heat stress conditions for better production.

Betaine

Betaine is an osmo regulator which maintains the movement of water molecules between intercellular and intracellular space. Hence, it helps in maintaining water balance in the body and ultimately protects birds from dehydration especially during heat stress.

Conclusion

Heat stress is one of the challenging period for poultry and it has negative impacts on bird's performance in terms of reduced growth and production, and increased mortality. Many studies have been done in this regard and the focus on management, nutrient interventions, addition of electrolytes, essential oils, prebiotics and probiotics have gained importance. Recently, two innovative approaches have been explored by scientists, that is early-life conditioning (perinatal heat acclimation) and genetic selection of breeds with increased capacity of coping with heat stress conditions (increased heat tolerance). These opportunities, although promising especially for poultry production in tropical regions, still requires more research and development.



Fig-5: Sprinklers

Factors Affecting Hatching Egg Quality



G.K.Rathinam

Hatchery Specialist &
Technical Consultant, India

Hatching Egg Quality is factor, which is most important in breeder operations and management.

There are many factors affecting the quality of hatching eggs. The following factors are important: egg size, egg weight, shell weight, shell strength, and shell quality.

Egg Size: Lighting patterns in rearing; lighting patterns in laying; nutrition; nutrient intake; disease; water supply; moulting; house temperature. Heat stress reduces egg size.

Egg Size – small: Flock early in lay; inadequate nutrient intake; inadequate protein, energy, fatty acids in feed, inadequate water, high temperature, and disease (Gumboro).

Egg Weight: Storage temperature and humidity.

Shell Weight: Shell weight remains constant as hen ages but egg weight increases, that is, decreased shell quality.

Shell strength: Nutrients that influence shell strength include calcium, phosphorus, magnesium, zinc, manganese, chlorine, potassium and vitamins; disease, especially respiratory system diseases.

Shell Quality: High and increased house temperatures; excess salinity in water; older flocks; damage by bird's feet; collisions among eggs; time of day egg laid; and disease.

The eggshell may show the following changes

Thin, porous, soft: Feed intake inadequate; disease (Ranikhed, infectious bronchitis, egg drop syndrome); excessive temperature; older birds; nutrition, calcium or phosphorus deficiency, inadequate feed intake; zinc, manganese or vitamin D3 deficiency.

Soft shell, Shell-less: Birds coming into lay; Disease (Ranikhed, infectious bronchitis, egg drop syndrome); sulpha drugs.

Misshapen: Genetic; Disease (Ranikhed, infectious bronchitis); older birds higher incidence of inadequate oviduct muscle tone, insufficient protein in thick albumen; coming into lay.

Rough Shell: Genetic; disease (Ranikhed, infectious bronchitis); excessive antibiotic and calcium; young birds coming into lay; older birds; stress.

Mottled shells: Marked with coloured spot/patches. Genetic; humidity extremes; cage marks on freshly laid eggs.

Cracked shells: High house temperature; high stocking density; cage design; shell thickness or strength or weight per unit area.

'Blood' spots: Genetic; cold environment; continuous lighting; low vitamin level; mycotoxins; disease (Ranikhed, infectious bronchitis).

Abnormal yolk colour: Flock disease; low feed consumption; pigment levels in feed; intestinal parasites; micotoxins; oxidative breakdown of natural or synthetic carotenoids.



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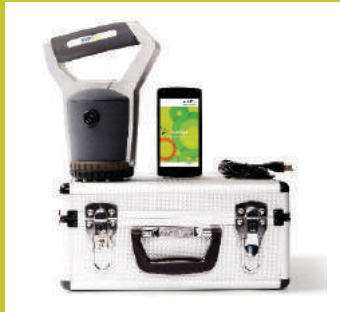
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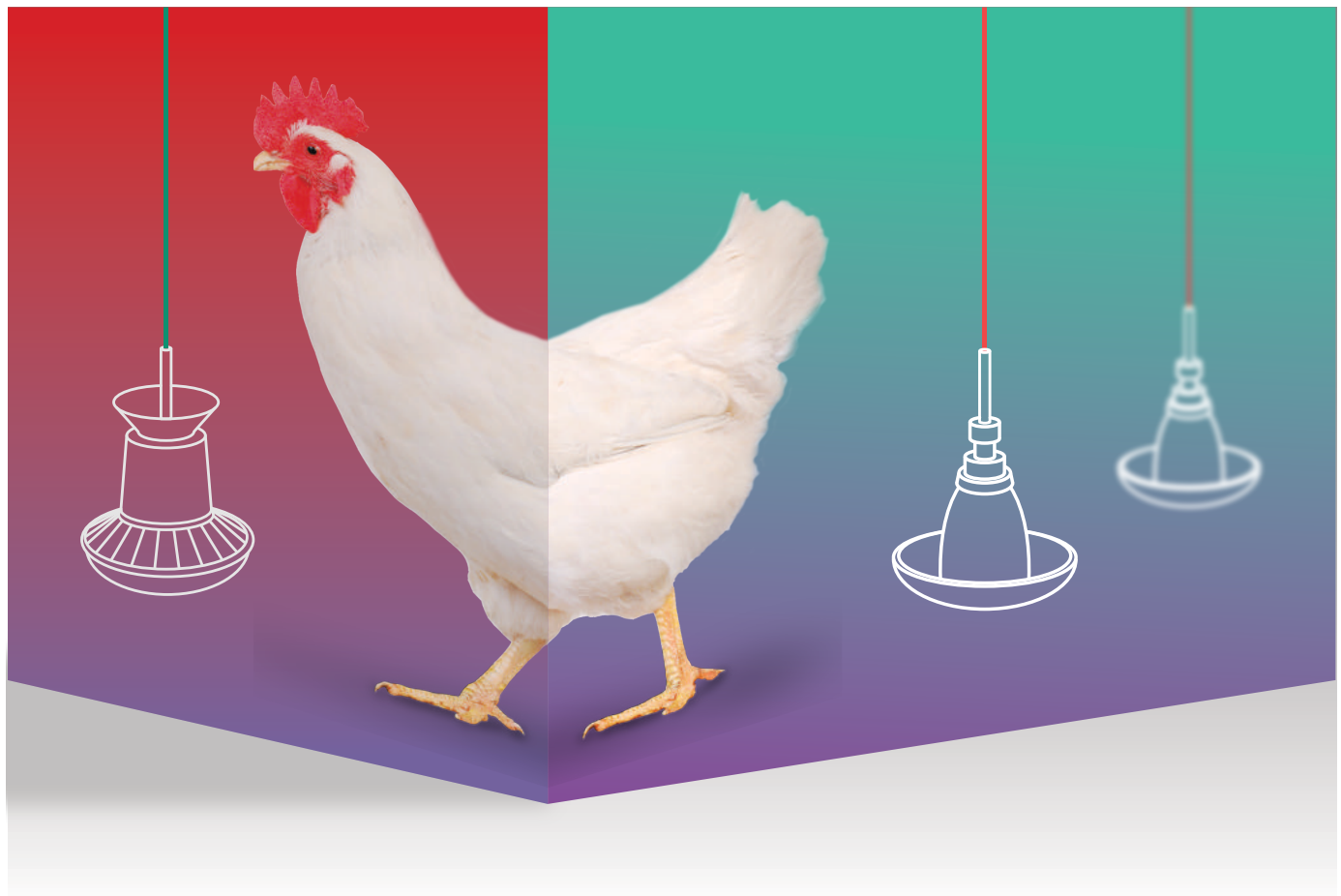


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