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From the Editor's Desk

Winter Breeding Management to Invest in the Future of Poultry Operations



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As winter descends upon us, poultry farmers face a crucial challenge: ensuring the health and vitality of their newly hatched chicks. The winter season can be harsh and unforgiving, making it essential for farmers to implement effective brooding management practices to keep their feathered companions warm and thriving.

Chicks, especially in their early days, lack the feathering required to maintain their body temperature. Cold drafts can lead to hypothermia and even death. To combat this, farmers must provide a reliable heat source, such as heat lamps or brooders, to maintain a constant temperature of gradually reducing the temperature each week until it reaches ambient temperature will help chicks acclimate to the cold.

Bedding material is a critical component of brooding management. Keeping the bedding clean and dry not only ensures warmth but also prevents common health issues like respiratory infections. The bedding should be replaced regularly to maintain a healthy environment.

Proper ventilation is essential for chicks' well-being as it helps control humidity levels and prevents the buildup of harmful gases. However, striking a balance between ventilation and keeping the temperature steady is vital. Too much ventilation can lead to cold drafts, while too little can cause excessive moisture buildup, creating an environment ripe for disease.

Nutrition plays a significant role in brooding management, especially in winter. Providing a high-quality chick starter feed that is well-balanced and rich in essential nutrients is vital. Additionally, access to fresh, clean water at all times is necessary to prevent dehydration, as winter air tends to be dry.

Adequate space is also an important consideration as overcrowding can cause stress, feather picking, and poor growth. Ensure that each chick has sufficient space to move, feed, and rest comfortably. This helps to reduce competition for resources and minimizes the risk of stress-related health problems.

Lastly, regular health checks are crucial. Observing the chicks for signs of illness, such as lethargy, droopiness, or abnormal behavior, can help catch potential issues early. Isolating sick chicks and seeking veterinary assistance as needed is a key part of maintaining a healthy flock.

In conclusion, effective brooding management during the winter season is vital for the well-being and success of your chicks. Adequate warmth, proper bedding, ventilation, nutrition, space, and health monitoring are all key components of a successful brooding strategy. With these measures in place, poultry farmers can ensure that their chicks grow into healthy, productive birds, and the winter season becomes just another step in the journey of raising quality poultry. By providing a nurturing and comfortable environment, we not only safeguard the chicks' lives but also invest in the future of our poultry operations.

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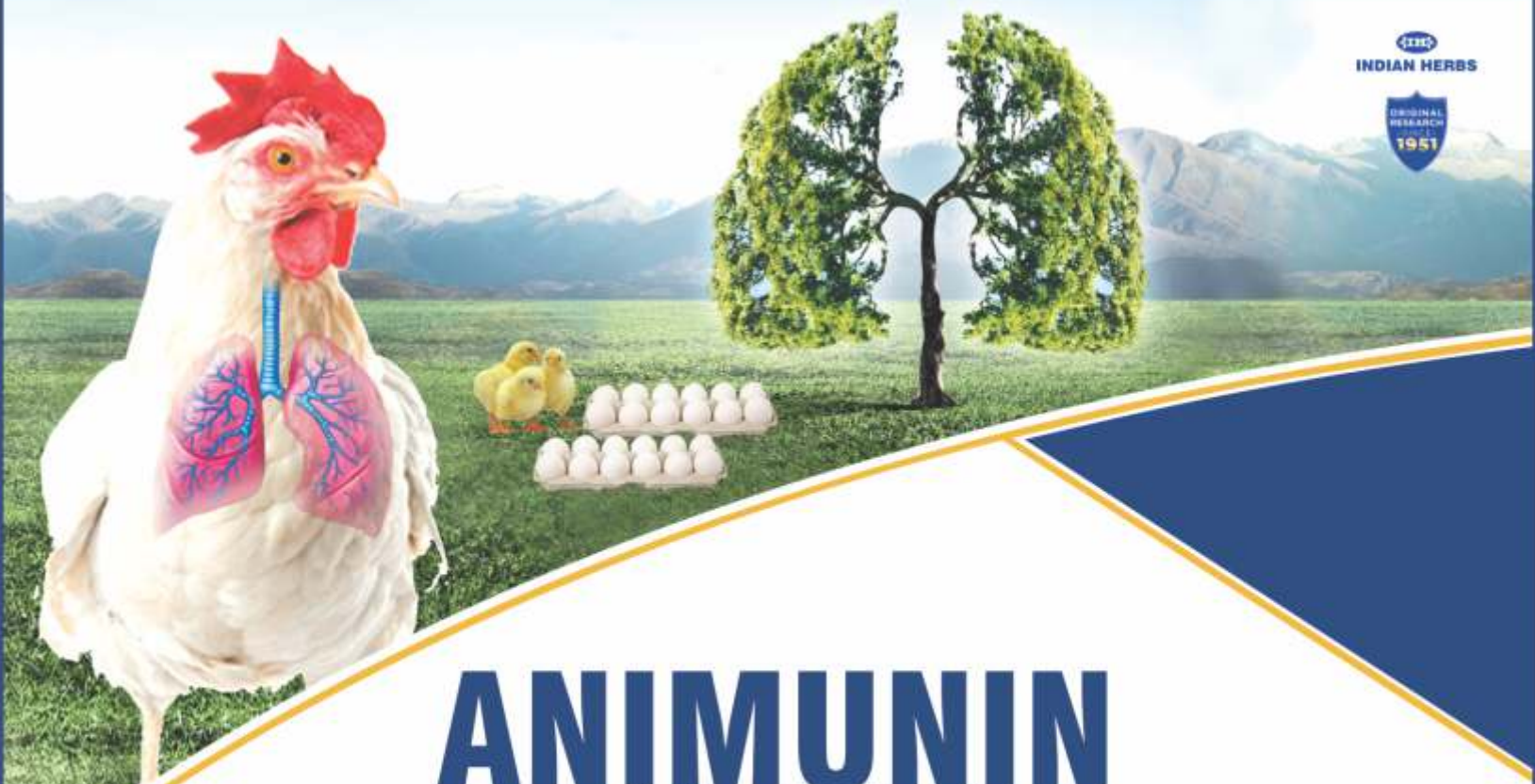
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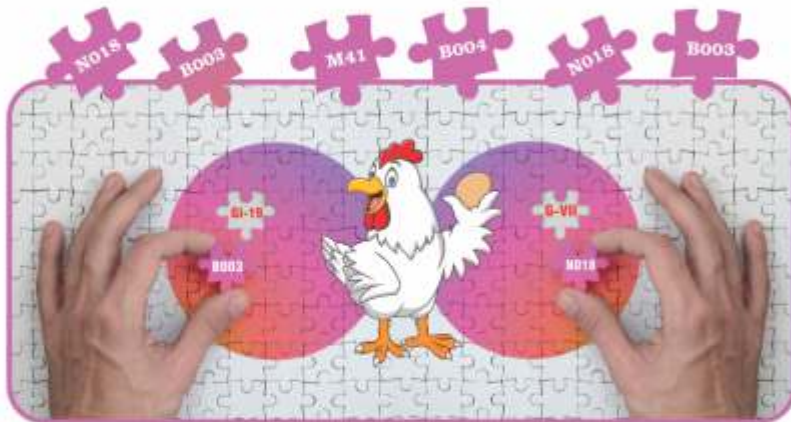
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20 Tips For Successful Winter Breeding Management



Parth Rai Gupta
Co-Editor

1. Choose Cold-Hardy Breeds: Select chicken breeds known for their cold tolerance and winter resilience.
2. Insulate the Coop: Ensure the coop is well-insulated to retain heat and prevent drafts.
3. Provide Adequate Ventilation: Maintain proper airflow to prevent moisture buildup and respiratory issues.
4. Use Safe Heating Methods: Use heat lamps, brooders, or radiant heaters to keep chicks warm.
5. Install a Thermometer: Monitor the coop's temperature to ensure it stays within the optimal range.
6. Select Appropriate Bedding: Choose suitable bedding materials to provide insulation and comfort.
7. Maintain a Dry Environment: Prevent dampness in the coop, which can lead to frostbite and other health issues.
8. Adjust Chick Diet: Increase the protein content in their diet to support growth and temperature regulation.
9. Offer Fresh, Unfrozen Water: Use heated waterers to ensure chicks have access to clean, unfrozen water.
10. Divide Feeding Times: Provide multiple small feedings during the day to keep chicks well-fed.
11. Simulate Daylight: Use artificial lighting to extend daylight hours and encourage egg production.
12. Control Light Intensity: Ensure adequate light intensity (10-15 lumens per sq. ft.) in the coop.
13. Frequent Health Checks: Regularly monitor chick health and address any issues promptly.
14. Vaccination: Follow a vaccination schedule to protect chicks from common diseases.
15. Prevent Overcrowding: Avoid overcrowding to reduce stress and disease risk.
16. Maintain Good Biosecurity: Implement biosecurity measures to prevent diseases from entering your flock.
17. Emergency Preparedness: Have backup heating, feed, and water supplies for unexpected power outages or storms.
18. Clean Waterers Regularly: Prevent algae growth by cleaning and sanitizing waterers frequently.
19. Add Grit to Diet: Provide grit to help chicks digest their food effectively.
20. Avoid Humidity Spikes: Monitor humidity levels in the coop and avoid sudden spikes that can lead to condensation.





Key Information For Effective Brooding Management of Chicks During Winter Season

Brooding is the art and science of rearing baby chicks or care and management of chick during early part of their life (up to 4-6 week). A newly hatched chick does not develop the thermoregulatory mechanism fully and takes about two weeks to develop this mechanism and homeostasis. Therefore, they cannot maintain their body temperature properly for the first few weeks of life; and may be subjected to chilling, if not properly taking care of.



Jai Prakash¹ and B.L. Saini²

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Brooding can be classified into natural and artificial brooding -

1. Natural brooding:

- a) With broody hen
- b) Only few chickens are raised
- c) 15-20 chickens

2. Artificial brooding:

Without including hen. In artificial brooding large number of baby chicks are reared in the absence of broody hen.

Equipments used for brooding are called brooders.

- (a) Hot room brooding: Heated through the central heating system.

- (b) Cold room brooding: Heating only area under brooder canopy feathering appears to be better with this system.

Natural Brooding VS Artificial Brooding

Brooder comprises of three elements:

1. Heating source
2. Reflectors
3. Brooder guard

1. **Heating source:** Heating source may be used as a heating material like -

- Electrical



- Gases like natural gas
- LPG and methane
- Liquid fuel like kerosene
- Solid fuel like coal, wood.

Gas brooder - Natural gas, LPG or methane is connected to heating element which is hanged 3 to 5 feet above the chick to provide heat.

Electrical brooder - One electrical brooder can be used for 300 to 400 chicks.

Infra-red bulbs - It is a self reflecting bulb

One 250 watts IR bulb can provide brooding for about 150 to 250 chicks

- 2. Reflectors** - Reflectors are called Hovers - Flat type hover & Canopy type hover



3. Brooder guard / chick guard

- They are used to prevent chicks from straying too far away from heat supply until they learn the source of heat.
- We have to provide brooder guard with a diameter of 5 feet, height of the brooder should not exceed 1.5 feet.
- During summer season, brooding is done for 5-6 days. In



winter season it is 2-3 weeks.

Brooding requirement for chicks

1. Temperature

- Maintain of correct temperature in brooder house is one of the essential factors for successful brooding.
- In first week, it is 95°F (33°C) and reduced by 5°F each week till to room temperature 69.8°F (21°C).
- To low/high temperature will cause poor growth.

2. Ventilation

- 3-5 air exchange/h
- Increase ammonia (25 ppm normal) level in brooder house leading to irritation of eye.

3. Humidity:

- 50-60% of relative humidity.
- High humidity causes problem of wet litter.

4. Litter

A thick layer of 4-5 cm of suitable litter material (saw dust) or rice hull should be spread on floor as bedding material in deep litter system of rearing.

5. Chick Guard/ brooder guard

Barrier provided to (straying away) baby chicks from source of heat drafts.

6. Feeding and watering

- 1st two days chick are fed with rough ground maize.
- 3rd day with mixing of chick mash and maize is introduced.
- Water added with anti-stress like electrolyte and vitamins
- Feeder space should be enough 1/3 rd of all birds never more than 1/2 nd full to avoid feed wastage.

7. Space

1. First week – 100 – 120 sq.cm/chick
2. 2-4 weeks – 250 – 300 sq.cm/chick
3. 5-8 weeks – 700 – 820 sq.cm/chick

8. Health care

Adaptation of correct medicine and vaccination programme.

Medication programme:

- First and Second day – Electrolytes and vitamins.
- 3rd to 7th day – Antibiotics.



Wheat straw



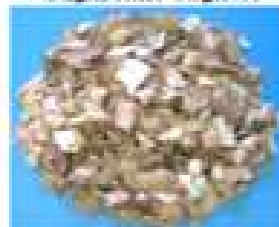
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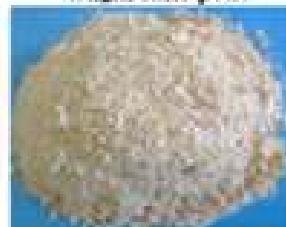
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Winter Breeding Management: Strategies for Success

Siddhi Gupta
Co-Editor

Winter breeding management of chicks presents unique challenges to poultry farmers. Harsh weather conditions, decreased daylight hours, and fluctuating temperatures can affect the health and growth of chicks. However, with careful planning and appropriate strategies, it is possible to raise healthy and productive chicks during the winter season.

Selecting the Right Breed

The foundation of a successful winter breeding management program begins with selecting the appropriate breed of chickens. Some chicken breeds are more

cold-hardy than others and better equipped to handle the challenges of winter. Use breeds known for their cold tolerance.

Shelter and Housing

Insulation: Insulated coops and brooders are essential for maintaining a comfortable temperature for chicks during winter. Proper insulation helps retain warmth and prevents drafts. Make sure to check for any cracks or gaps in the walls and seal them to prevent cold air from entering.

Adequate Ventilation: While insulation is crucial, maintaining proper ventilation is equally

important. Good ventilation prevents moisture buildup, which can lead to respiratory problems in chicks. Ensure that the coop has vents or windows that can be adjusted to control airflow.

Heating: Consider using safe heating methods like heat lamps, brooders, or radiant heaters to maintain the right temperature for your chicks. It's important to provide a warm, dry area where chicks can huddle to stay warm.

Bedding: Use appropriate bedding materials like straw, hay, or wood shavings to insulate the floor and provide a comfortable, dry



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environment for the chicks.

Litter Management: A good quality litter serves as an insulator in maintaining uniform temperature, also absorbs moisture and promotes drying. Around 6 inches of litter is needed in houses during winter. The litter gives warmth to the birds during winter.

Feeding

Adjusted Diet: Chicks require extra energy to keep warm during the winter. Adjust their diet to include a higher protein content to support their growth and maintenance of body temperature.

Fresh Water: Ensure that chicks have access to fresh and unfrozen water. Consider heated waterers to prevent freezing during the colder months.

Feeding Schedule: In winter, it's advisable to provide multiple, smaller feedings throughout the day. Chicks can eat more during the daylight hours when it's warmer, ensuring they have enough energy to withstand the cold nights.

Light Management

Reduced daylight hours in winter can affect chick development and egg production. To mitigate this:

Artificial Lighting: Install artificial lighting in the coop to simulate longer daylight hours. This encourages egg-laying and chick growth. Use timers to regulate lighting schedules.

Duration and Intensity: Aim for 14 to 16 hours of light per day with

an intensity of at least 10-15 lumens per square foot. Ensure the light source is placed high enough to evenly distribute light throughout the coop.

Gradual Changes: When adjusting lighting schedules, make changes gradually to avoid stressing the chicks.

Health and Disease Management

Quarantine New Birds: If introducing new birds to your flock during winter, quarantine them to prevent the spread of diseases. This practice is especially crucial in confined winter conditions.

Regular Health Checks: Conduct frequent health checks on your chicks to catch any issues early. Address any signs of illness promptly to prevent the spread of diseases.

Vaccination: Follow a proper vaccination schedule to protect chicks from common diseases.

Adequate Space: Overcrowding can lead to stress and disease outbreaks. Ensure that there is enough space for your chicks to move around comfortably.

Biosecurity

Maintain strict biosecurity measures to prevent the entry of pathogens into your flock. Limit contact with wild birds and animals, practice good hygiene, and avoid sharing equipment with other poultry owners.

Emergency Preparedness

Be prepared for unexpected winter storms or power outages. Have a backup heat source, sufficient feed and water storage, and a plan in place to protect your chicks in case of extreme weather conditions.

Winter breeding management of chicks requires attention to detail and a proactive approach to ensure the health and well-being of your flock. By selecting the right breed, providing proper shelter and nutrition, managing light and ventilation, and practicing good biosecurity, you can successfully raise healthy chicks even during the harshest winter conditions. With the right strategies and a commitment to their care, your chicks will thrive and provide you with the benefits of winter egg production and future generations of chickens.





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Biomethanation – An Economical Solution for Poultry Litter Management

The steady growth of chicken production has led to exponential growth in chicken litter generation. The substances are primarily disposed of in the environment, used as organic fertilizer, or fed to ruminants. Spreading of fresh poultry litter on the land can result in the emission of nitrous oxide, which is a potent greenhouse gas and can affect humans and animals through pathogen contamination.

However, indiscriminate disposal and improper elimination of chicken litter in the surrounding area caused significant environmental and social damage. This growing problem can be ameliorated by converting chicken litter into biofuel via the Biomethanation process.

Generally, the birds require an ambient

temperature for their best productivity, for which the farm owners need to spend a lot on air blowers and coolers, an exhaustive amount of power is required to run all these equipment, but the power supply is not constant, so they depend on alternative power generation like diesel gensets to keep their equipment's running. In addition to this, the amount spent on disposing of the litter is huge. An alternative solution to this is Biomethanation,

mentioned, maintaining hygiene in the farm adhering to the govt. norms is the greatest challenge as the litter if not disposed off properly, the health of the bird and also the employees are drastically affected.

Biomethanation Process

Biogas is environmentally friendly and one of the most efficient and effective options for renewable energy among various other alternative sources.

Parameters	Before the Installation of the Biogas Plant	Cost/ Month (In Lakhs)
Total power consumption (24hrs, considering approx.,1600units/day)		
Genset – Fuel consumption (Considering a downtime of 4-5hrs)	Fuel Consumption – 15ltr/hour (40kWh Genset)	2.02
Litter disposal cost.		0.17
Total Cost		2.19



which uses poultry litter as its raw material and generates biogas that can be utilized for power generation at no extra cost. Thus, the handling of litter is managed along with free power generation for the farm.

In addition to the cost above

Biogas is produced by the Biomethanation process, and the effluent from the process is rich in essential nutrients that can be utilized as a very good fertilizer.

Based upon estimates, with the country's poultry population of 28.6



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million and availability of poultry waste of 1,575.5 million kg per year, the biogas yield would be 116.6 million m³/year. This can generate 648 GWh of thermal energy per year. If the thermal energy is converted into electric energy, assuming a 15 percent conversion loss in the conversion of thermal energy to electric energy, approximately 550 GWh of electric energy can be obtained annually.

Different state governments have imposed laws for monitoring the disposal of poultry litter and waste management in the poultry farm as setting up incinerators for the incineration of dead birds.

Koshish Sustainable Solutions, an initiative by a team of professionals from the Indian Institute of Technology (IIT), with more than 10 years of cumulative experience, one of the leading players in Biogas Plant manufacturing, which is majorly working on promoting sustainability, have set up biogas plants across more than 10 states of India,

The technology involved in biogas production is simple and can be implemented cheaply and efficiently by employing small-scale digesters that are easy to use and maintain.

These biodigesters can offer benefits to all spheres of society but are more beneficial to poultry farms. They can use the gas produced for cooking, running biogas generators, and fertilizing crops with the residual waste or sell them.

Biogas plants not only help in processing the litter but also the dead birds can be digested and significantly curb the greenhouse effect: the plants lower methane emissions by capturing this harmful gas and using it as fuel. Biogas generation helps cut reliance on the use of fossil fuels, such as oil and coal, the most important of its many advantages is that biogas can offer a decentralized energy solution.

Economic Viability

Generally setting up Biogas plants is considered expensive, to promote and support sustainability, Govt. of India is supporting by providing subsidies for

setting up biogas plants, which may range from 25000 to 5cr, and the payback period of a biogas plant is generally considered to be 3-4yrs. Besides supplying energy and manure, provides an excellent opportunity for mitigation of greenhouse gas emissions and reducing global warming and thereby earning carbon credit, which in turn can be encashed on a yearly basis, thus making biogas plants economically viable.

Waste to Energy

Poultry farms can recover heat and energy from waste. Biogas can run an on-farm electric generator and reduce your electricity costs and the gas generated can be used for heating purposes.



Bio-Fertilizers

Poultry farm digesters are rich in organic nutrients such as N, P and K and will be in dry form which can be packeted and sold as biofertilizers. The revenue generated by the sale of biofertilizers can be on par with the general sale of poultry meat and eggs.

The biofertilizers can be further

processed into Phosphate Rich Organic Manure (PROM), as an alternative to DAP and slurry can be also used as a raw material in the manufacturing of biomass pellets (green coal) and green coal can be used in power plants for co-firing. **As Ministry of Power (MoP) has also advised coal-based thermal power plants to use a 5-10% blend of biomass pellets**

Biogas as CBG

If the biogas produced from poultry waste is considerably high, it can be further purified to CBG, which is equivalent to CNG and can be used in vehicles or filled in cylinders and sold to restaurants and other industries.

A poultry farm with around 50000 birds can be benefitted from the following.

Thus, poultry litter management can be efficiently handled which can help the farm owners benefit economically and fall in line with the different laws imposed by the pollution control board.

Power Generation (Annually)	183750 kWh
Bio-Fertilizer obtained (Annually)	224 MT
Amount Saved from the Power Generated from Biogas (at the cost of Rs.8/ Unit) in Lakhs	14.70
Revenue Generated from Manure Sales (Cost @ Rs.5/ kg) In Lakhs	11.20
Carbon Credit Claim (Annually) In Lakhs	3.00
Total Savings in a year (In Lakhs)	25.90
Central Financial Subsidy (One Time- In Lakhs)	24.00 (approx.)
Cost of the Plant (In Lakhs)	75.00
Value added products from BioManure	
PROM	INR 10/kg. (approx.)



Koshish Sustainable Solutions Private Limited

Koshish is a leading provider of Sustainable Renewable Energy Solutions, specializing in Biogas Plants & Bio-CNG Projects. We've successfully installed over **50 biogas plants across 10 Indian states, handling various organic waste** types like Cow Dung, Poultry Litter, Piggery Waste, Food Waste, paper pulp, and agriculture waste.

We took an already great product and made it even better.

eXolution is now Xcelsio.
Our relentless effort to make the world a safer and healthier place has led us to create Xcelsio. After years of cutting-edge research in Korea, we have come up with an advanced formulation to make Xcelsio more potent than before.

Xcelsio comes with a more concentrated cocktail of bacteriophage and is fortified with more Bacillus subtilis. This new and improved formulation, created specifically for use in

poultry, is simply unmatched in controlling pathogenic bacteria—giving you Total Gut Control.

Each of our bacteriophages is painstakingly selected using our proprietary Bacterophage F technology to target and eliminate specific bacteria; leaving other beneficial bacteria completely unharmed. This natural surgical strike on disease-causing bacteria is the safest, non-toxic, and most effective prophylactic alternative to antibiotic growth promoters.

xcel시오

Natural Feed Additive



BENEFITS TO THE FLOCK

Natural:
No Toxins, No Residues, No Side-effects, No Withdrawal Time.

Surgical:
Targets and eliminates specific bacteria, even those resistant to antibiotics

Protective:
Maintains gut bio-balance by retaining beneficial bacteria

Probiotic:
Enriched with Bacillus Subtilis.

Flexible:
Compatible with all Performance Enhancers, Growth Promoters, Acidifiers, Anti-Oxidants, Minerals & Enzymes

BACTERIA IT CONTROLS

Salmonella
Typhimurium Gallinarum Choleraesuis, Derby, Dublin, Enteritidis, Pullorum

E. Coli
F4 (K88), F5 (K99), F6 (987P), F18, F41

Clostridium Perfringens
Type A, C, B, D, E

Staphylococcus Aureus

FOR USE IN
BROILERS, LAYERS
& BREEDERS

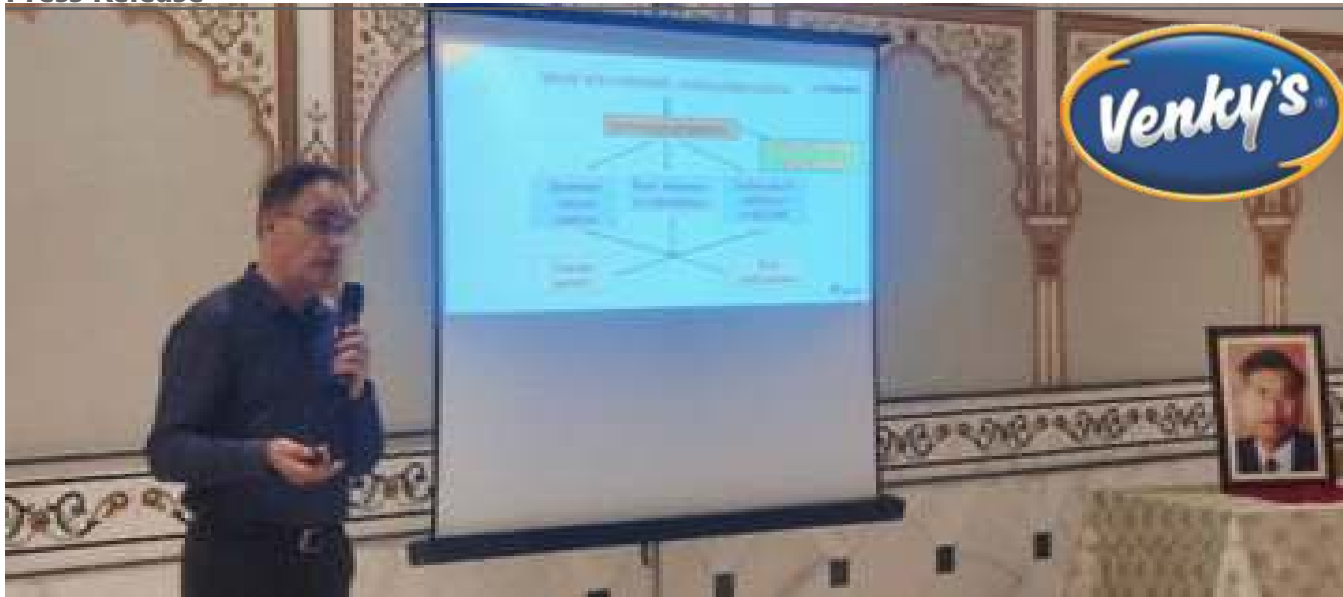
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Venky's india LTD Organized Series of Grand Technical Seminars at Raipur, Karnal, Hyderabad, Coimbatore and Bangalore from 11th to 15th September 2023.



On 11th to 15th September 2023 in Raipur, Karnal, Hyderabad, Coimbatore and Bangalore Venky's India LTD organized the grand series of seminars. The resource person for the Seminar was Dr. Josep Garcia, Global technical lead for toxin solutions at agrimprove an International expert on Mycotoxins from M/s Special Nutrient Inc, USA and who has experience of more than 40 years in the same field.

The topic of seminars was on "Multiple toxins challenges in feed and its solutions"

The Seminar was well attended by field Veterinary consultants, Layer farmers, Breeder Farmers and local integrators from various cities and towns of Raipur, Karnal, Hyderabad, Coimbatore and Bangalore. For the Raipur Seminar Dr. Vishwas Sagajkar (DGM Marketing) welcomed the guests. In Inaugural speech Dr. Vishwas Sagajkar (DGM Marketing) gave brief regarding Dr. Josep Garcia work experience. And then the speaker Dr. Josep Garcia started his presentation. And finally the presentation was summarized by Dr.

Vishwas Sagajkar (DGM Marketing). For Karnal Mr. H.S Padda (DGM North) welcomed the guest and Mr. Sashi Bhushan gave inaugural speech to Audience in Karnal Followed by Dr. Vishwas Sagajkar (DGM Marketing) gave brief regarding Dr. Josep Garcia work experience. And then the speaker Dr. Josep Garcia Started his presentation. And finally the presentation was summarized by Dr. Vishwas Sagajkar (DGM Marketing). For Hyderabad Meeting Dr. Baburaj (DGM South) welcomed the guest and Mr. Suneel Sharma gave inaugural speech to Audience in Hyderabad Followed by Dr. Vishwas Sagajkar (DGM Marketing) gave brief regarding Dr. Josep Garcia work experience. And then the speaker Dr. Josep Garcia started his presentation. And finally the presentation was summarized by Dr. Vishwas Sagajkar (DGM Marketing). For Coimbatore Meeting Mr. Deepak Khosla (GM Marketing) welcomed the guest and gave inaugural speech to Audience in Coimbatore Followed by Dr. Vishwas Sagajkar (DGM Marketing) gave brief regarding Dr. Josep Garcia work experience. And then the speaker Dr. Josep Garcia Started his presentation. And finally the



presentation was summarized by Dr. Baburaj (DGM Marketing). For Bangalore Meeting Mr. Deepak Khosla (GM Marketing) welcomed the guest and gave inaugural speech to Audience in Bangalore Followed by Dr. Vishwas Sagajkar (DGM Marketing) gave brief regarding Dr. Josep Garcia work experience. And then the speaker Dr. Josep Garcia Started his presentation. And finally the presentation was summarized by Dr. Baburaj (DGM Marketing).

And then Dr. Josep Garcia started with his presentations “Multiple toxins

challenges in feed and its solutions”. At the start of his presentation. Dr. Josep Garcia showed some of the Photographs of the PM lesion due to mycotoxicity. Which gave the clear cut idea to the audience about different lesions to different organs by different mycotoxins. Then slowly he shifted the audience towards updates of Endotoxins in poultry and its importance in poultry. In his presentation topic what he touched was Endotoxins disrupt gut health in poultry. Endotoxins, also known as lipopolysaccharides (LPS), are part of

the outer membrane of the cell wall of all gram-negative bacteria (e.g. E. coli, Salmonella, Shigella, Pseudomonas, among others) that are released from bacterial cell wall by shedding or through bacterial lysis. Gram-negative bacteria are part of poultry animals' microbiota; thus, there are always LPS in the intestine. Under eubiosis, this does not affect animals negatively because intestinal epithelial cells are poorly responsive to LPS when stimulated from the apical side.

Dr. Josep Garcia also reminded about the critical role of immunosuppression caused by Mycotoxins and its role in Vaccine failure. He emphasized that one should be very careful while selecting a Toxin Binder as some agent such as activated charcoal if included in Toxin Binder may have deleterious effects as activated charcoal also binds nutrients such as vitamins and minerals from the feed. Biobantox Plus takes care of Mycotoxins, Endotoxins & Pesticides.



Report on Comprehensive Refresher Programme (CRP-9) Conducted by Centre of Excellence for Animal Husbandry (CEAH), Hessarghatta, Bengaluru, 560088 from 07th To 11th September, 2023 for Assistant Professors of Tamilnadu University of Veterinary & Animal Sciences (TANUVAS), Tamilnadu



Prof. R.N.S. Gowda- Chief Guest for Valedictory Funtion



Certificate Distribution

CEAH-Bengaluru – Animal Husbandry Academy of India is setup under Government of India, Ministry of Fisheries, Animal Husbandry & Dairying, and Department of Animal Husbandry & Dairying as a consortium of 5 organizations at Hessarghatta vide Order No. F.A-430011/3/2023-Estt(HQs), dated, 14th March, 2023. This Academy is formed as per the guidelines of DoPT for National Programme for Civil Service Capacity Building (NPCSCB) under “Mission Karmayogi” of Government of India.

CEAH-Bengaluru is spread over 642 acres distributed in four campuses at Hessarghatta. Campus – 1 consists of Central Poultry Development

Organization & Training Institute (CPDO&TI), Campus – 2 consists of Central Frozen Semen Production & Training Institute (CFSPTI) and Central Cattle Breeding Farm(CCBF), Campus – 3 consists of Animal Quarantine and Certification Services(AQCS) and Campus – 4 consists of Regional Fodder Station(RFS).

CEAH Bengaluru has state of art automation units at poultry, Modern dairy sheds, ET lab, Sex-sorted semen lab, International Animal Quarantine facility, biggest fodder unit in the country with latest technology adoption for irrigation. The Academy consists of four campuses with conference halls, class rooms, officers

and farmers hostels with boarding and lodging facilities.

CEAH Bengaluru Academy organized its Ninth Comprehensive Refresher Programme (CRP-9) for Assistant Professors of TANUVAS, Tamilnadu from 07th to 11th September, 2023.

This course is planned with a 360 degree approach for knowledge enrichment and generic issues with the following outcomes expected to be covered:

Candidates were exposed to information on Govt. institutions of State and Central of Department of Animal Husbandry & Dairying across the country. Latest innovations, govt. schemes of both state and central



Certificate Distribution 2



Guest Lecture by Prof. Isloor



Lecture



Valedictory Function

sector, soft skills for adoption in service delivery, successful business models, project report analysis, activity based learning including pre-training and post-training analysis. The young veterinary professionals will be motivated and trained in the modern challenges of Animal Husbandry Sector.

On 04th September, 2023, **Dr. P.S. Mahesh**, Joint Commissioner & Director, CEAH inaugurated the programme. In his inaugural address, he briefed the mandates of CEAH Bengaluru the consortium of 5 organizations to aspire to be best Animal Husbandry Academy in India with state of art infrastructure facilities and a robust revenue model. Later, All trainees were given a digital pre-training analysis through Google Forms by **Sri. S.M. Anwar Basha** with a pre-designed format to understand the training needs of officers in various subjects.

Dr. Mahesh P.S. Joint Commissioner & Director of CEAH academy made a presentation on Prospects of Indian Animal Husbandry Sector which is estimated to be double the Automobile sector (7.5 lakh crores) contributing about 15 lakh crores to the Indian GDP.

The Dairy sector is estimated to be about 8 to 10 lakh crores, poultry 2 lakh crores and rest three lakh crores is from small ruminants etc. Indian Animal Husbandry Sector is most promising with a sustained growth for rural economy, employment and nutritional security.

In the afternoon, trainees **Dr. Sonali Nanda**, Assistant Director made a presentation on the activities of CPDO&TI including the future proposed activities at CPDO&TI. Later the trainee officers were taken to **CEAH Campus-1** CPDO&TI to visit automation units in poultry, feed mill, hatchery and demo unit. They were briefed by **Dr. Abhinav Choudhary** and **Dr. S. Balraj** about requirements of Automation, Functioning of Feed Mill and Hatchery at the field.

On 05th September, 2023 being **TEACHERS DAY**, a grand celebration was made by cutting a cake in the lawns of CPDO&TI. This was followed by **Dr. Abhinav Choudhary, Livestock Officer** who gave an insight of practical aspects of Sheep Rearing and management of Sheep Farm. Later, **Dr. P. Nallappa**, Managing Director, Jagadish Poultry Farm, a successful

entrepreneur in poultry made elaborate presentation on Economics of Broiler and Broiler Breeding Farms with unit cost and suggestions for adaptation to make poultry enterprise most profitable venture. **Sri. S.M. Anwar Basha** made a presentation on Basics of Animal Nutrition and importance of Quality Control in Livestock Feeds.

In the afternoon, trainees visited **CEAH Campus-4** to visit Regional Fodder Station, wherein they were exposed to fodder demo plots, fodder seeds display with a brand "Fodder Gold" followed by demonstration of Rhodes cultivation. The trainees were taken to artificial irrigation pond which is recently developed at this centre with 100ft x 100ft x 12 ft depth holding more than 20 lakh liters of water for sprinkler irrigation. **Dr. Aditya** and **Sri. Ashwathappa** made presentations about fodder management for the trainees.

On 06th September, 2023, Wednesday, **Mr. Santosh**, a sheep entrepreneur presented the success story with interesting facts of Nomadic Herds of Sheep across India with very sustainable profitable sheep farming. He mentioned in his address that



Valedictory Group Photo



Field Visit to CFSPTI



Visit to CPDO&TI Hatchery

money saved is money made in sheep farming with greater control on inputs. The stall feeding of sheep farming has its own challenges that require higher cost, commitment and proper marketing strategy. Later this session was followed by **Mr. V. Sudhindranath**, Desi Cow farming entrepreneur of "Naati Hasu Goshala" with a brand name "Pashu Thai" for the products of the organization. He is maintaining more than 500 desi breeds with more than 10 breeds of desi origin. He has been very successful in producing various products under his venture namely, Panchagavya, Agnihastra, Balms, Phenyls, Health products etc., by adopting innovative interventions like chaff cutting, silage making, gobar gas production, multistoried cow sheds, solar adaptations etc. This session was followed by **Dr. Mahesh P.S.** guided the trainees on the topic of Communication and Presentation Skills. In the afternoon, Trainee officers visited **CEAH campus-2** to visit facilities of Central Frozen Semen Production and Training Institute(CFSPTI) and Central Cattle Breeding Farm(CCBF). They appreciated the facilities of Semen Lab, ET lab, cattle sheds, milk collection etc .

Dr. Bhaskar, Deputy Commissioner, **Dr. Atulya M.**, Asst. Commissioner and **Dr. Abdul Salam**, Livestock Officer explained the facilities. This was followed by presentations by **Dr. Arun Prasad**, Joint Commissioner. CFSPTI on activities of CFSPTI.

On 07th September, 2023, the session started at 9.00 am with **Dr. Gopakumar**, CEO and Managing Director of DLG farms India (USA) on successful piggery enterprise in detail with ideal 3 way crossing, breeder model, franchise model, piglet fattening model etc to make piggery one of the most successful enterprise. Later the trainee officers visited **National Institute of Veterinary Epidemiology & Disease Informatics (NIVEDI)**, Yelahanka Bengaluru.

Prof. **Dr. Vivek Patil** from KVAFSU, Bengaluru dealing on Animal Husbandry Projects and analysis online deliberation, he demonstrated salient features of Dairy Project in detail including calculation of ratios and feasibility concerns.

In the afternoon, trainees visited **CEAH Campus-3** Animal Quarantine Certification Services (AQCS). **Dr. Tapan Kumar Sahu**, Deputy Commissioner

along with **Dr. Nivedita**, Quarantine Inspector made presentations about requirements of export / import of livestock products through AQCS Bengaluru and provisions of Livestock Importation Act. Later they were shown all the facilities of AQCS. In the evening for the first time CEAH Academy introduced "Activity Based Learning" which was conducted by **Dr. Abirami** from, NSB Academy Bengaluru. Trainee officers along with CEAH academy team participated with highest enthusiasm.

On the last day, 08th September, 2023, trainees visited "Naati Hasu Goshala" at Kakolu early in the morning 7.00 am to appreciate the activities at the Desi Cattle Farm. This is followed by **Dr. Vinod Bhat**, Joint Commissioner, Govt. of India and Secretary Veterinary Council of India joined online for the presentation on Veterinary Council of India and issues of Veterinary profession. The last session was presented by **Dr. Mahesh P.S.** with a future vision of Animal Husbandry Sector and Vet as a successful entrepreneur. **Mr. S.M. Anwar Basha** issued trainees Post Training google forms to seek their feedback in both



Teachers Day

VetDose

Automatic Vaccinators



- Simple Operation
- High Quality Construction
- Accurate Dose



VETERINARIAN APPROVED

PRODUCTS ALSO AVAILABLE IN PRIVATE LABEL

Automatic Vaccinators / Veterinary Injectors

Sizes: 0.5ml, 1ml, 2ml, 5ml, 10ml



VetDose **Prime**
Vial Holder Set (VHS)



VetDose **Prime**
Feed Tube Set (FTS)



VetDose **Prime**
Bottle Mounted Set (BMS)



VetDose **Classic**
Mixed Dose Full Metal Body (FMB)

- Durability
- Reliability
- Comfort

All spare parts easily available



Teacher Day Celebration

google forms and written form. This Special program for Assistant Professors of TANUVAS was well received and requested to increase it to 10 days so that it will meet their requirement for career advancement. "The Teachers became well motivated Students & inspired to create Future Leaders in their University"

The CRP-9 programme concluded with

a Valedictory Function. Each trainee officer were given with Kit consisting of (Executive Bag, CEAH memento, Certificate, Group Photograph and Card Drive(pen drive) consisting of all the presentations made during the five days. The trainee officers expressed their satisfaction and they rated the programme as Excellent in both "Google forms under post-training

analysis and written feedback). **Dr. Mahesh P.S., Joint Commissioner & Director**, acknowledged the tireless efforts of the entire Academy Team both the front end and back end consisting of logistics, hotel arrangements, outdoor team, etc for making this programme very successful.



Visit to NIVEDI Bangalore



Visit to NIVEDI Lab



Visit to NIVEDI

ACTION ON THE GROUND IS THE NEED OF THE HOUR

What the food production industry needs is some real work on the ground that makes a difference or it can potentially lose the multiple benefits of modern medicine like antibiotics due to antibiotic resistance.

Studies have indicated that millions have lost lives due to illnesses in which bacterial anti-microbial resistance played a role. In fact, nearly 60,000 newborns in India lose their lives annually due to antibiotic-resistant neonatal infections.

Is antibiotics the answer to offering safe & wholesome food to consumers?

The rampant misuse for commercial gains has led to the emergence of antibiotic-resistant bacteria. Antibiotic usage is primarily used to control and manage the outbreak of E. Coli and Salmonella which can cause significant disruption to profitability and productivity.

The silver lining on the horizon for the industry and consumer today is the humble but potent bacteriophage. These are natural and sustainable solutions to successfully manage and prevent outbreaks of bacterial infections. Bacteriophages allow farmers and businesses to considerably reduce the need for antibiotics, adhere more easily to improve food safety norms, and enhance productivity by improving overall health of the flock and lowering maintenance costs.

*When administered as per recommended dosage, results can vary from farm to farm.



Proteon Pharmaceuticals is a leader in bacteriophage technology for livestock farming and aquaculture. Harnessing the power of bacteriophages, farmers, and businesses can considerably reduce the need for antibiotics while easily adhering to food safety norms or other regulations.

Our leading products to prevent and manage *E. Coli* and *Salmonella* infection in poultry are BAFACOL and BAFASAL+G. They destroy bacteria effectively and without side effects or impact on the bird's body and do not affect the beneficial gut microflora balance. The result is increased **food safety** and **farm productivity*** across parameters such as **FCR**, **mortality rate**, or **weight gain**.

Our Products



Indian Federation of Animal Health Companies (INFAH)

ORGANISED 12th Annual General Meeting on 23rd September 2023, at Mumbai



Indian Federation of Animal Health Companies (INFAH) held its 12th Annual General Body Meeting on 23rd Sep 2023 at "Hotel The West in Mumbai Garden City". Emerging trends in AH sector & a picture gallery showcasing key INFAH activities for 2022-2023 were displayed at the venue. The AGM was attended by ~ 100 industry colleagues representing Indian animal health industry.

On 23rd Sep 2023 during the Inaugural session Dr Ram Prakash delivered a welcome note. He appreciated the enthusiastic participation of members & the delegates.

Presidential address was given by Dr Vijay Makhija reinforcing the INFAHs motto of Healthy Animals, Healthier India. INFAH is recognized as unified force of AH companies having member strength as 57. INFAH plays the role of a catalyst in shaping policy framework to unlock and unleash the potential of the Indian Animal Husbandry and Animal Health sector in line with the National Priorities of Atma Nirbharta, ensuring the access of all classes of veterinary medicines and animal health products to the benefit of animal health and welfare promoting their responsible use. INFAHs objective has been that the Animal owners especially the Farmers should stand to be benefitted and in the

process their income levels should go up significantly. INFAHs focus has been to foster a greater understanding of animal health and the importance of the 'One Health' approach & focus on preventing Zoonosis. INFAH is committed to work closely with Government and Research Institutions to promote seamless availability of Vaccines and newer Technology Solutions focused on disease prevention and mitigation.

The inaugural session was addressed by Chief Guest Dr. Abhijit Mitra Animal Husbandry Commissioner DADF, New Delhi. Dr. Mitra highlighted the various initiatives undertaken by the Government towards Disease Mitigation & Improving Farm Productivity. Dr. Mitra stressed on collaboration between INFAH and DADF for enhancing Animal Husbandry and Animal Health in India. INFAH members had the unique opportunity of listening & interacting with Animal Husbandry Commissioner.

Dr P S Mahesh Joint Commissioner & Director of Centre of Excellence of Animal husbandry (CEAH) shared his views on the topic of Future Trends in Indian Poultry Sector ,Mr Shiva Mudgil , Food & Agri Business Services , International Finance Corporation (World Bank) shared insights on Growth Opportunities in Animal Husbandry Sector ,Mr Manish Singh QSRC Advisor Consumer & Food Services Global

Markets Fonterra Brands Singapore Pte Ltd shared experiences regards to Dairy Value Chain – Evolution & Challenges .

In the post lunch session, John Rollins Director Pharmexcil shared insights on Export Opportunities for Indian Animal Health Companies, a presentation on Talent & Reward Trends in Animal Health was made by Mr Arvind Ladha, Ms. Nidhi Lal & Mr Adrish Singh the Team from Mercer, and Dr D K Dey delivered a presentation about Data Manthan - Veterinary Market Research.

Delegates got an opportunity to interact with the invited speakers during the networking session.

Two distinguished personalities, **Dr T.G Chandramohan** and **Mr Sunil Madhok**, were conferred with INFAH Awards 2023.

Delegates were enlightened & felt inspired to learn the spectacular journeys of these two leaders.

Dr. Shirish Nigam General Secretary INFAH presented the full year activity report for 2022-2023. Key achievements as under:

- Successful Organization of **National Seminar** on theme Disease Mitigation & Farm Productivity engaging Ministry of Fisheries, Animal Husbandry and Dairying, Drug Controller General of India office, Principal Scientific Advisor Office, Veterinary Council of India, Indian Pharmacopeia

Commission, ICAR, IVRI, FSSAI, Health for Animals, GALVmed

- Published **White Paper** on Veterinary use of Antibiotics vis-a-vis emergence of AMR-Indian Animal Healthcare Industry Perspective by INFAH, having estimation of Antimicrobial Usage (AMU) in India for animal use.
- Published **Vision Document Ayurveda** in Animal Health Care, released during 9th World Ayurveda Congress and International conclave on Pashu Ayurveda
- Contributed towards policy initiative of DADF on **National Action Plan on AMR 2.0** (2022-2026)
- INFAHs recommendations for Pre **Budget proposals** 2023-2024: Seeking clarity on classification of animal feed supplements and feed additives under correct Chapter Headings of the Customs Tariff Act, 1975 and request for release of Bank Guarantees submitted by importers.
- **Representations to DADF:** on inclusion of additional Animal Feed Supplements / Additives for facilitating swift importation, INFAH members comments on Guideline for conducting clinical trial/field trial pertaining to the vaccines for veterinary use.
- **Representations to IPC:** Veterinary Vaccines General Chapter Requirements, Deletion / Waiver of Target Animal Batch Safety Tests (TABST)
- **Representation to VCI:** addendum to be incorporated in the Draft Minimum Standards of Veterinary Practice

Regulation 2023 (MSVPR)

- **INFAH Outreach Programme in collaboration with VCI** on Career Opportunities for in the Animal Health Industry which was attended by more than 1000 Veterinary Students.
- Development of Draft Standard Operating Procedures for **Good Marketing Practices**
- Enhancing **Market Access & boosting exports** of Animal Health Care products in Collaboration with Pharmexcil, showcased INFAH at Pet Fair Southeast Asia organized by VNU Exhibitions at Thailand
- **INFAH Connect Digital initiatives** – Successfully conducted Webinars- Impact of Union Budget 2023-2024 on Animal Husbandry sector, AMR-An Animal Healthcare Perspective.
- Presented INFAH views at the launch of **Animal Pandemic Preparedness Initiative (APPI)** and Animal Health System Support for One Health (AHSSOH), Why ONE HEALTH matters at IPR Radio Podcast
- INFAH presentation at the **ICAR-Industry Stakeholder Consultation** meet by Agrinnovate India Ltd
- Presented INFAH views on the Role of Animal Health in Achieving **Sustainable Development Goals**
- INFAH received Indian Poultry Journalist Association of India (**IPJA**) **Appreciation Award** for the year 2022, in recognition of significant contribution to the Indian Poultry Industry

Dr. P.G. Phalke, Treasurer conducted the AGM proceedings & thanked members for

exemplary support. INFAH Members participated in the electoral process for selecting Managing Committee for the year 2023-2025 term. Mr. N. M Sampat Returning Officer conducted the electoral process. During the Members Forum a wide range of topics were discussed by members for Ease of Doing Business & towards the betterment of AH sector.

AGM concluded on a very positive note with a resolve to continue the contribution of INFAH towards betterment of the Industry and Society.

Post AGM Managing Committee members selected the Office Bearers & the Managing Committee Members for the term 2023-2025, details are as under:

- 1) Dr Shirish Nigam (President)
- 2) Dr Aman Sayed (Vice President)
- 3) Dr Ram Prakash (General Secretary)
- 4) Dr Anup Kalra (Joint Secretary)
- 5) Dr Manoj Sood (Treasurer)
- 6) Mr Gautam Chatterjee
- 7) Dr Vinayak Surve
- 8) Mr Sushanta Dey
- 9) Ms. Ashwini Deshpande
- 10) Dr Vijay Makhija
- 11) Mr Vijay Teng
- 12) Dr Arun Atrey
- 13) Mr Satish Pasrija

It was also decided that Dr P.G. Phalke shall function as Director-INFAH Secretariat.

Moreover Dr D. K. Dey was nominated as Honorary Member of INFAH, and his expertise shall be utilized as an Advisor to INFAH / Subcommittees.

ICFA launches World's First International Agro Arbitration Centre in New Delhi

IAAC will fulfil the need of India's and global disputes settlement in food and agriculture sector



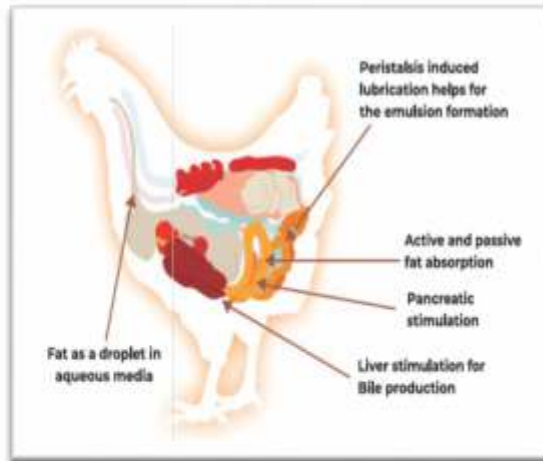
Ms. Shamshravish Rein
Executive Director, IAAC Advocate,
Supreme Court of India
shamshravish.rein@agroarbitration.com

IAAC is set to emerge as a trustworthy global institution with an expert panel comprising legal, financial, and agro-trade professionals at its core, Justice P. Sathasivam. Launching the world's first agro focussed dispute

settlement body, International Agro Arbitration Centre (IAAC), promoted by the Indian Chamber of Food and Agriculture, Justice P. Sathasivam, Former Chief Justice of India and Former Governor of Kerala, said that IAAC is poised to revolutionize

LIPROVET

Accomplishing fat utilization beyond emulsification



LIPROVET

Fat, the indispensable component of the diets despite bringing the feed texture and digestibility challenges, support the body mainly for energy & hormone synthesis that directly affects performance traits and farm profitability. Despite emulsifier helps to ease the digestion & absorption, the best poultry diets today essentially needs a comprehensive approach for the fat metabolism in the body offering homeostasis, lipotransport & effective fat utilization. Today it is essential to support fat metabolism along with hepatic-regulators, lipotropic agents and osmoregulators for supporting for effective fat utilization by the bird.

Liprovvet is an ideal nutrient combo designed to optimize fat digestion, absorption & utilization for ultimate productivity, improved carcass traits that utterly suites the modern high energy diets.



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For technical details of product, trials you can connect Dr Prasad Kulkarni, Director, Biosint Nutraceuticals @prasad.kulkarni@biosint.co.in

dispute resolution mechanism within the agricultural and food sector in India and worldwide.

Agriculture is an incredibly diverse sector. Post WTO food and agro trade has significantly grown to over \$2 trillion and a large number of companies have gone global today with trade, technologies and businesses. While USA, Netherlands, Germany and Brazil occupy top positions in agro food exports, India is fast catching up, exporting agri products to more than 150 countries in the world, accounting for more than \$55 billion and importing close to \$25 billion. Such rapid growth in trade gives rise to many issues and trade disputes, which need to be promptly and cost-effectively addressed, said Justice P. Sathasivam.

Domestic agro sector is also huge and different businesses from inputs to output and services are rapidly expanding with innovation and new products and technologies. While the rising business and trade of agriculture comes with its own benefits, the disputes arising within the agro trade industry can hinder its efficiency in several ways. These disputes may crop up for a variety of reasons; contract disputes, nuisance claims, produce quality, patent and IPR infringements, payments and debt recovery, among others, Said Mr. Justice

Anil R Dave, former Judge, Supreme Court, while highlighting the vacuum felt for long time of sector specific arbitration centre with domain expertise.

Bearing in mind the gravity of such issues, IAAC, a unique agro sector focused arbitration centre, has been incepted to provide a forum to address the challenges and mitigate the negative effects that disputes can have on productivity, relationships, costs, ultimately promoting a more productive and efficient agro trade and businesses globally, asserted Dr. MJ Khan, Chairman of IAAC and also the chairman of parent body, ICFA.

Recognizing the critical need for dedicated dispute resolution in the fields of agriculture and food, IAAC is set to emerge as a trustworthy global institution with an expert panel comprising legal, financial, and agro-trade professionals at its core. The International Agro Arbitration Centre is an India based leading institution that provides alternative dispute resolution services to the agro food industry worldwide, said Dr. Ashok Dalwai, Chairman, PM Task Force of Doubling Farmers Income.

The IAAC shall offer arbitration, mediation, and expert determination services to resolve disputes that may arise in the agro sector with the country or outside. IAAC

promotes the peaceful resolution of disputes in the agro and food industry and trade through alternative dispute resolution mechanisms. The Centre seeks to provide cost-effective, efficient, and impartial dispute resolution services that enable parties to resolve their disputes quickly and effectively, said Mr. Siraj Chowdhary, Board Member, Tata Group and former Chairman, Cargill India Limited.

The Indian policy and judicial system also encourages commercial disputes to be resolved through the mediation process and arbitration, before approaching the Courts. IAAC's commitment extends to providing equal opportunities to parties across the globe, transcending geographical, linguistic, and financial boundaries, said Justice Sathasivam in his closing remarks.

The launch program was joined online by IAAC's global board members. Ms. Khairul Nessa, Executive Director, World Trade Centre and Vice Chair, WTC Global Agriculture Committee, Mr. Tarun Shridhar, Member, CAT and former Union Secretary, Dr. Abusaleh Shariff, Chairman, US-India Policy Institute, Mr. Harikshan Rankawat, President, Federation of Indian Industries, UAE and Dr. Vikas Chaturvedi, Chairman, Institute of Chartered Accountants of India, Amsterdam



SPACE 2023

At The Heart of The Global Food Challenge

The 37th edition of SPACE was held from Tuesday 12 to Thursday 14 September at the Rennes Exhibition Centre, featuring 1,207 exhibitors. Among them, 241 were exhibiting at SPACE for the first time and 365 were international companies from 39 different countries. These exhibitors welcomed 90,771 visitors, including 12,125 international visitors from 122 countries. Overall, these figures reflect a 23% increase in the number of international visitors, as well as a record number of countries represented.



Mexique

The three-day Exhibition, which took place in a warm and positive atmosphere, reflects the healthy economic situation of the farming industry, but also its concerns regarding the future, as production volumes for beef, milk, pork and poultry are falling. At the same time, consumer demand for quality food at affordable prices has never been higher. The three days of intense activity were therefore more necessary than ever for all those involved in the dynamics of animal farming, to allow them to address these issues, to alert political leaders to this unprecedented situation and to reflect together on solutions for the future. Once again, SPACE exercised its role to the full as a high-quality event that is vital for the future of animal farming. As the geopolitical context becomes increasingly unstable, it is essential that we do not develop a tendency to depend on third countries to fill our plates.

Energy as a major theme

This edition was also dedicated to energy. This central theme of SPACE was explored in numerous discussions, conferences and debates. It was the focus of the Espace for the Future organised by the Chambers of Agriculture. This area, which was redesigned for this year's edition, provided SPACE visitors with all the necessary information to help them reduce their energy bills and diversify their activities around the opportunities offered by this market. Photovoltaics, wind power,

methanatisation, biomass... there are many avenues to explore and keeping informed is essential to maintain a profitable balance with the farm's main production. At a time when strategic decisions need to be taken to meet the dual challenge of energy and food sovereignty, SPACE was a key opportunity to prepare for the future in this area. The new Experts' Area within the Espace for the Future provided animal farmers with very practical and useful information on subjects such as fuel consumption, hydrogen, reducing energy consumption in buildings, the law on renewable energies, etc.

Innov'Space

Innovation is one of the hallmarks of SPACE, and exhibitors' enthusiasm for the Innov'SPACE label remains undiminished. A total of 118 applications were submitted, and were rigorously examined by a jury of over 50 members. 37 companies were awarded one or two stars depending



Delegation-Afrique



InnovSpace

on the degree of interest for the farmer or end user. Four winners received the special three-star distinction: Kverneland Group France's Pudama, which applies fertiliser to each individual seed; Leretrif Rossard Bâtiment's Watt'N'Wall, which consists of prefabricated walls for pigsties equipped with a hydraulic network to heat part of the space; and finally Mastaplex's Mastatest and Zoetis's Vetscan MastiGram+, both of which diagnose mastitis quickly, so the animals affected can be treated more efficiently.

The World of Animal Farming, a record number of countries attended

SPACE attracted an unprecedented number of international visitors, with 122 countries represented by the 12,125 visitors who came to Brittany looking for solutions to help them develop or improve their farms. The many delegations from Africa (Benin, Cameroon, Côte d'Ivoire, DRC, Senegal, Togo, etc.) confirmed their

growing interest in the solutions presented at SPACE to help them achieve food sovereignty. BPI's official participation alongside them encourages our companies to open up and develop their business in these new markets. Top buyers, invited to SPACE as part of Business France's "Export Begins in France" programme, were fascinated by the diversity and quality of the products and services offered by SPACE exhibitors. These investors and leading companies in their own countries, came from Angola, Ethiopia, Kenya, Romania, Tunisia and Turkey to find new technologies in the fields of hygiene, health, genetics and breeding equipment at the Exhibition.

The European Association of Agricultural Journalists (ENAJ) also took part in this year's edition and held its Annual General Meeting there.

Once again this year, the World of Animal Farming played to its full potential in Rennes, despite many professionals being unable to come due to visa refusals. This year saw an even greater number of such cases. A large number of applications were refused, particularly in India, Algeria, West Africa, etc., which has a significant impact on potential or existing business flows between France and the rest of the world.

The Youth Forum and the Tech'Agri



Allées du hall 5

Challenge

Once again this year, SPACE focused its attention on young people, highlighting the value of animal farming trades in order to further boost their attractiveness. The Youth Forum welcomed around a hundred students each day to discuss their concerns: the path to setting up a business, time devoted to holidays, income, the ability to maintain agriculture-related employment, internships, etc. A wall displaying job and internship offers, as well as a job dating event, also provided young visitors with concrete opportunities to build their future.

The first Tech'Agri Challenge by Innov'Space was organised this year. HND and engineering students from the agricultural and digital sectors reflected on and developed technical solutions to issues encountered by farmers (digital identification cards for cattle, automated headlocks for remote opening, etc.). This new project, initiated by Bretagne Développement Innovation and Innozh and supported by SPACE, was a great success and demonstrated the skills of the new generation in coming up with innovative and practical solutions to



Novogen



improve working conditions for farmers.

The closing ceremony, organised for the first time by the Young Farmers of Brittany, was another great opportunity to bring together its members to enjoy a convivial evening.

Conferences

SPACE continues to offer its participants knowledge-rich content in the hundred or so conferences included in its programme. Together, these presentations are what make SPACE a unique platform for the development and progress of the animal farming industry. This dimension was confirmed once again this year.

The genetic showcase

SPACE is a unique showcase for dairy and suckler breed presentations and competitions. 500 cattle from 13 different breeds provided a continuous spectacle in the main ring during the three-day Exhibition. This year's edition of the Genetics Show featured two major events: the National Charolais Breed Competition and the European Simmental Breed Challenge. Ten other inter-regional competitions and genetic presentations complemented the programme. The "Meat Excellence" beef cattle auction, dedicated entirely

We look forward to seeing you at SPACE 2024: from Tuesday 17 to Thursday 19 September.



to suckler breeds, and the inter-breed "Genomic Elite Auction", a unique event in Europe, dedicated to dairy and mixed breeds, were a great success. SPACE also featured a large number of sheep, with 120 animals from 10 different breeds. Competitions and the Sheep Olympics were held throughout the day, with 136 young learners taking part.

For the second year running, the 32,000 litres of milk collected at SPACE will be donated to the Food Banks via SOLAAL, whose 10th anniversary we celebrated.

SPACE 2023: a political highlight for animal farming

SPACE's key role in the start of the new agricultural policy season was further accentuated this year with the launch of the Exhibition by the French Minister for Agriculture and Food Sovereignty, Marc FESNEAU, the visit of Denise BAUER, Ambassador of the United States, the conference on the Common Agricultural Policy (CAP) by Véronique DREZET-HUMET, Head of Representation of the European

Commission in France, followed by her tour of the Exhibition stands, and the meeting of the Agricultural Commission for the French Regions meeting chaired by Loïg CHESNAIS-GIRARD, President of the Brittany Region, who addressed young people with the following message:

"Tomorrow you will be at the heart of Europe's food strategy". Ms Arooj MEHWISH RIZVI, Trade and Investment Counsellor at the Embassy of Pakistan in France, also met a number of people involved in cattle farming on behalf of her country, which is the world's fourth-largest dairy producer.

The 37th edition of SPACE, with its abundance of opportunities to meet and share ideas, its highly committed exhibitors, its dynamic and enthusiastic visitors all keen to maintain and develop animal farming in our regions and around the world, was a fantastic platform for all these players to find the keys to feeding the world's 10 billion people in the next 30 years, in an increasingly carbon-free economy.



Poultry Federation of India (PFI), an apex and renowned association of Poultry Farmers, Breeders, Equipment Manufacturers, Pharmaceutical Companies and all allied Industries, organized its 34th Annual General Body Meeting (AGM) at Alila Diwa by Hyatt, Goa on 27th – 28th September" 2023



"A highlight of the event was the unveiling of 'Poultry Creations,' a new magazine introduced in collaboration with Vprint Infotech by the PFI executive body and esteemed guests.

Mr. Sudhir Malhotra, CEO, Interface Pharmaceuticals, shared insights into the benefits of immunotherapy and its advantages for overall poultry health and productivity. Dr. Susil Silva's presentation focused on the significance of Soybean Meal (SBM) in poultry feeds and the competitive advantage of using US SBM. Dr. Rakesh Gupta followed with a presentation on egg peritonitis in broiler breeders, addressing a specific health concern in poultry production. Followed by Bronze mementos distribution to sponsor companies' representatives. After that Mr. Mahendra Garg shared his views on benefits with Soya, after that Dr. Andreaas Stemmler and his colleague shared their thoughts on "Innovation and Sustainability" Growth drivers in the Poultry. After that mementos distribution to Press and best Soya Award (2022-23) to Dhirendra Soya Agro Pvt. Ltd. During the AGM, Mr. Azad Rathi, President of the Broiler Breeder's Association, explained how their association works to strengthen the poultry industry. He also requested the industry to control production and ensure a balanced supply and demand. These discussions and presentations on



The event began with a warm welcome address given by Mr. Ranpal Dhanda, President, Poultry Federation of India, an inaugural speech that shed light on the association's goals and further extended gratitude to all delegates (600+) from across the country and abroad, sponsoring companies (83), Special Guests, industry professionals and poultry journalists.

Mr. Ravinder Singh Sandhu, Secretary, Poultry Federation of India discussed the notable achievements and initiatives undertaken by the Poultry Federation of India in the past year, providing insights into the organization's impact on the poultry industry. Mr. Ricky Thaper, Treasurer, Poultry Federation of India, presented the financial accounts, ensuring transparency and accountability within the organization.

the first day provided attendees with a comprehensive understanding of the Poultry Federation of India's achievements, financial transparency, and technical advancements within the poultry industry, setting the stage for the events of the second day of the AGM.

The second day of the AGM (28th September, 2023) was marked by the prestigious presence of Chief Guest Dr. Sanjeev Balyan, Minister of State for Animal Husbandry, Dairying and Fisheries, Government of India, and Dr. O. P. Chaudhary, Joint Secretary, Department of Animal Husbandry and Dairying. Alongside them, key figures from the Poultry Federation of India, including Mr. Ranpal Dhanda (President), Mr. Ramesh Chander Khatri (Chairman), Mr. Sanjeev Gupta (Vice-President HQ), Ravinder Singh Sandhu



(Secretary), and Mr. Ricky Thaper (Treasurer) and all executives' members of the Poultry Federation of India graced the event. Furthermore, the presence of approximately 600 poultry enthusiasts from various regions of the country added depth and diversity to the gathering.

The day commenced with a traditional lamp lighting ceremony, a symbol of enlightenment and unity within the poultry industry. This ceremonial act held profound significance, reflecting the shared commitment of all stakeholders to the growth and

prosperity of the poultry sector.

The AGM provided a robust platform for thoughtful deliberations and discussions on pivotal issues that shape the poultry industry's trajectory. Representatives from sponsoring companies, government officials, and members of the Poultry Federation of India collectively emphasized the critical importance of sustainable practices, technological advancements, and the resolution of significant challenges in poultry farming.

Participants voiced their optimism regarding the future of the poultry

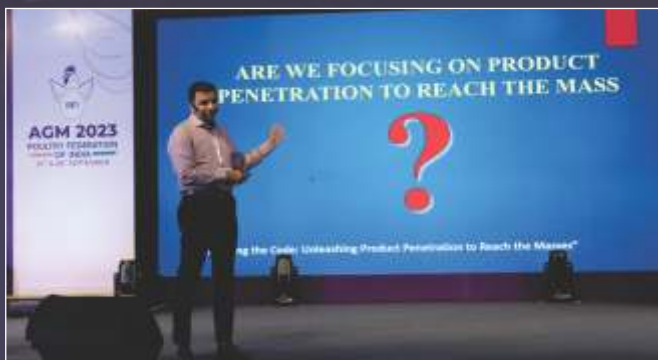
industry, recognizing the instrumental role that such gatherings play in fostering positive change and ensuring the industry's continued growth and stability.

A highlight of the second day was the address by Mr. Ranpal Dhanda, President, Poultry Federation of India, who passionately shed light on the pressing challenges confronting small poultry farmers across the nation. Mr. Dhanda's impassioned plea underscored the problems faced by these farmers and called for immediate attention from the authorities. The presented stressed on need of skill development for skilled manpower such as in other industries. He also requested the Chief Guest to start some diploma courses in ITI's or other such institutions so that the need for skilled manpower is fulfilled.

in continuation with the demand of the president, PFI, Prof. (Dr.) P.K. Shukla showcased the need of skilled manpower & the initiations being taken by various Government bodies to empower people with the required skills.

Acknowledging the concerns raised by Mr. Dhanda, Dr. Sanjeev Balyan,





Minister of State for Animal Husbandry, Dairying, and Fisheries, Government of India, and Dr. O.P. Choudhary, Joint Secretary of the Department of Animal Husbandry and Dairying, offered reassurance to the farmers. They affirmed their commitment to comprehensive measures aimed at addressing the challenges faced by poultry farmers, underscoring the government's dedication to the welfare of small-scale poultry farming. New logo also launched by Sanjeev Balyan.

This assurance provided a sense of relief among farmers and industry professionals present, who expressed appreciation for the proactive stance of the government and newfound hope for a brighter future in the poultry industry. The commitment demonstrated by these esteemed leaders has instilled confidence, signalling a positive trajectory for small poultry farmers in the country.

The day also featured informative presentations, with Dr. Lipi Saiwal focusing on government of India

chemes for poultry, Mr. Vijay Sardana, discussing the future of the Indian poultry sector in a changing society and marketplace, Dr. Sudheer Bhalchandra addressing poultry vaccination, and Mr. O.P. Singh, delivering a presentation on the necessity of promotion and marketing for the chicken industry.

The event culminated in a one-hour panel discussion with Kisan Tak, Media Channel by Aaj Tak, addressing various critical issues pertinent to the poultry industry. Where in Mr. Ranpal Dhanda presented actual calculations of receivables by contract farmers which comes out to be significantly low.

Mr. Ramesh Chander, Khatri, Chairman, PFI and Mr. Sanjeev Gupta, Vice President (HQ), extended his gratitude to the sponsoring companies, esteemed guests, and everyone within the poultry community for their invaluable contributions in ensuring the success of this event.

The Poultry Federation of India Team presented mementoes as tokens of

appreciation to sponsoring companies, and representatives from various poultry associations, recognizing their significant contributions to the event's success.

Poultry Federation of India Team presented a special appreciation award to Mr. Rahul Khatri and Mr. Jagdish Kadyan for their exceptional efforts in orchestrating behind-the-scenes arrangements, their dedication in working tirelessly, and their skilful coordination with every guest, all of which were instrumental in making this event a resounding success.

The event concluded with a vote of thanks by Mr. Ricky Thaper, Treasurer, Poultry Federation of India extended a heartfelt vote of thanks to the chief guest for his support for the welfare on poultry farmer, industry professionals, sponsoring entities, and poultry journalists, expressing gratitude for their collective efforts in making the AGM a resounding success. The event was hosted by Dr. Devender Hooda, Executive Member, Poultry Federation of India.

2024 IPPE Attendee Registration and Housing Open Oct. 16

Permalink: <https://www.ippexpo.org/media/permalink/?id=1285>

Attendee registration and general housing for the 2024 International Production & Processing Expo (IPPE) will open Monday, Oct. 16. Attendees will EXPERIENCE IT ALL at the world's largest annual display of technology, equipment, supplies and services used in the production and processing of eggs, meat and poultry, and those involved in feed manufacturing. With more than 588,500 square feet of exhibit space and 1,185-plus exhibitors, the 2024 IPPE is on track to be one of the top three largest shows in the Expo's history. Be sure to register online to receive a discounted price of \$80 (USD) through Jan. 12, 2024. Beginning Jan. 13, the registration rate is \$130.

"IPPE's extensive range of solutions draws industry leaders worldwide that are committed to business development, implementing best practices, updating operations and remaining competitive. We look forward to welcoming our domestic and international attendees to the 2024 IPPE!" remarked IPPE show management.

The 2024 IPPE will offer attendees the opportunity to build relationships, find new suppliers and vendors, and connect with colleagues from around the world in one place, at one time. Sponsored by the American Feed Industry Association, North American Meat Institute and U.S. Poultry & Egg Association, the IPPE trade show floor will showcase the newest solutions, technologies, research, processes, services and products that the global animal food and protein industries have to offer. More than 80 hours of world-class education programs will also be presented throughout the week, along with numerous on-floor attendee activities and networking opportunities.

Through Jan. 12, the "Members to Atlanta" (M2A) program allows qualified attendees from member companies of all three associations

engaged in the production of poultry, eggs and meat for consumption, production of feed, and for pet food manufacturers to attend complimentary. The program is supported through the sponsorship of elite IPPE exhibitors, which include Aviagen, CEVA Animal Health, Cobb-Vantress, Inc., Elanco Animal Health, Georgia Poultry Equipment Co., Heat and Control, Huvepharma, Jamesway, Kemin Industries, Inc., Soybean Meal Information Center, Vetagro and Zoetis.

"Thanks to these exhibitors' generous support of the M2A program, we are able to continue to grow IPPE attendance, attracting a global audience of meat, poultry and egg, and animal food professionals," said IPPE show management.

IPPE will take place at the Georgia World Congress Center in Atlanta, Ga., USA. For more information and to register for the 2024 IPPE, visit ippexpo.org.

2024 IPPE SHOW DATES/HOURS:

Tuesday, Jan. 30: 10 a.m. – 5 p.m. EST

Wednesday, Jan. 31: 9 a.m.–5 p.m. EST

Thursday, Feb. 1: 9 a.m. – 3 p.m. EST

About IPPE

The International Production & Processing Expo (IPPE) is a collaboration of three shows - International Feed Expo, International Meat Expo and the International Poultry Expo - representing the entire chain of protein production and processing. The event is sponsored by the American Feed Industry Association (AFIA), North American Meat Institute (NAMI) and U.S. Poultry & Egg Association (USPOULTRY).

About AFIA

Founded in 1909, the American Feed Industry Association (AFIA), based in Arlington, Va., is the world's largest organization devoted exclusively to representing the business, legislative and regulatory interests of the U.S.

animal food industry and its suppliers. The organization's membership is comprised of more than 650 domestic and international companies that represent the total feed industry-manufacturers of commercial and integrated feed and pet food, ingredient suppliers, pharmaceutical companies, industry support and equipment manufacturers. AFIA members manufacture more than 75% of the feed and 70% of the non-grain ingredients used in the country. AFIA is also recognized as the leader on international industry developments and holds membership in the International Feed Industry Federation (IFIF).

About NAMI

The North American Meat Institute (NAMI) is the leading voice for the meat and poultry industry. Formed from the 2015 merger of the American Meat Institute (AMI) and North American Meat Association (NAMA), the Institute has a rich, century-long history and provides essential member services including legislative, regulatory, scientific, international and public affairs representation. NAMI's mission is to shape a public policy environment in which the meat and poultry industry can produce wholesome products safely, efficiently and profitably. Together, the Institute's members produce the vast majority of U.S. beef, pork, lamb and poultry and the equipment, ingredients and services needed for the highest quality products.

About USPOULTRY

U.S. Poultry & Egg Association (USPOULTRY) is the All Feather Association progressively serving its poultry and egg members through research, education, communications and technical services. Founded in 1947, USPOULTRY is based in Tucker, Georgia.

Sustainable Poultry Farming Takes Flight: Research on Energy-Efficient Hen Diets



This discovery by a Virginia Tech team could have a significant impact on the rising cost of feeding egg laying hens, which could be passed on to egg consumers.

Previous research found that feed intake and egg production parameters were the most commonly used response criteria for measuring energy responses in poultry.

Professor Michael Persia of Virginia Tech's College of Agriculture and Life Sciences decided to take a fresh look at energy levels in poultry. This research concept was conceived in 2008-09, when maize prices rose in response to increased ethanol production as part of the renewable fuels standard. A more holistic approach to laying hen metabolism was investigated in the quest to identify and validate alternatives to maize as the primary energy source in laying hen diets.

Persia and a team of graduate and undergraduate students from the School of Animal Sciences conducted more than a decade of research as a result. What they discovered confirmed their hypothesis.

In the short term, the amount of energy fed to hens has no effect on the number of eggs produced. Hens will lay eggs as long as they have enough fatty tissue and mass in their reserves to provide the energy.

According to the findings, dietary energy has a greater effect on body mass and fatty tissue than more direct performance responses; thus, hen body weight and composition can be used as a more sensitive measurement of hen energy status than egg production or feed efficiency.

The study, which was recently published in the *Journal of Applied Poultry Research*, is funded by the John Lee Pratt Animal Nutrition Senior Research Scholar Programme. The lead author is Alyssa Lyons, a doctoral student in the School of Animal Sciences.

More recently, the cost of dietary oil, the second most important energy component of a diet, has risen due to increased biodiesel production. As a result, Persia and his colleagues conducted an experiment to assess the effects of varying dietary energy on laying hen performance and energy storage from 36 to 52 weeks of age.

The results showed that dietary energy intake had an effect on the hens' total carcass mass and carcass fat mass before affecting the number of eggs produced.

Although egg production was unaffected, total mass, body weight, and fat mass all decreased significantly as dietary energy decreased and were directly correlated with dietary energy. This indicated that hens will continue to lay eggs at the expense of energy body reserves in the short term."

This discovery has the potential to have a significant environmental and economic impact.

Everything we can do to more accurately determine the needs of these birds will reduce the cost of eggs — efficiency in feeding leads to efficiency in economics. There is also a significant environmental component to this. Any time we can increase the utilisation of energy or nutrients from the diet, we reduce the amount of manure that ends up on the back end. If we can use our resources more efficiently and put them into the bird or the egg, we can reduce our environmental footprint.

India & US announce settlement of WTO poultry dispute in a bilateral statement



"The leaders lauded the settlement of the seventh and last outstanding World Trade Organisation (WTO) dispute between India and the United States. This follows the unprecedented settlement of six outstanding bilateral trade disputes in the WTO in June 2023," the statement said.

India and the US announced the settlement of their World Trade Organisation (WTO) poultry dispute. New Delhi has agreed to reduce tariffs on a range of American products. These include the following: frozen turkey, frozen duck and fresh, frozen, dried and processed blueberries and cranberries.

This was announced in a joint statement issued after a bilateral meeting between Prime Minister Narendra Modi and President Joe Biden.

US Trade Representative Katherine Tai too announced the resolution of the outstanding WTO poultry dispute with India in a separate statement.

"As part of the agreement, India also agreed to reduce tariffs on certain U.S. products, including frozen turkey, frozen duck, fresh blueberries and cranberries, frozen blueberries and cranberries, dried blueberries and cranberries, and processed blueberries and cranberries. These tariff cuts will expand economic opportunities for U.S. agricultural producers in a critical market and help bring more U.S. products to customers in India," said a statement issued by the

Office of the United States Trade Representative.

"In August, Ambassador Tai met with India's Minister of Commerce and Industry, Piyush Goyal, following the G20 Trade and Investment Ministers' Meeting. During that meeting, Ambassador Tai and Minister Goyal discussed this WTO dispute and expressed their shared desire to reach a solution soon," the statement said.

"Resolving this last outstanding WTO dispute represents an important milestone in the U.S.-India trade relationship, while reducing tariffs on certain U.S. products enhances crucial market access for American agricultural producers," the statement said, quoting Ambassador Tai.

"These announcements, combined with Prime Minister Modi's State Visit in June and President Biden's trip to New Delhi this week, underscores the strength of our bilateral partnership. I look forward to continuing to work with Minister Goyal to deliver inclusive economic opportunities for our people," the statement said.

"In June, the United States and India agreed to terminate six outstanding disputes at the World Trade Organization. India also agreed to reduce tariffs on certain U.S. products, including chickpeas, lentils, almonds, walnuts, apples, boric acid, and diagnostic reagents," it said.

"Today's agreement resolves the remaining long-standing dispute and opens a new chapter of bilateral cooperation that will deepen the trade relationship between the United States and India," it said.

Zoetis Named a 100 Best Company for Working Parents by Seramount



Zoetis, the world leader in animal

health, has been named one of Seramount's 100 Best Companies for Working Parents for the tenth year in a row. The award reflects Zoetis' commitment to creating a culture that values colleagues' careers, connections, and support.

Seramount recognised Zoetis for its family-friendly benefits, which included paid gender-neutral parental leave, subsidised childcare, bereavement leave following miscarriage, reimbursement for fertility expenses, increased mental health benefits for colleagues, and a flexible work environment.

Dr. Kevin Esch, Executive Director, Veterinary Medical Research & Development, was named Zoetis' Working Father of the Year, and Mary Bradley, Head of Colleague Experience Communications, was named Zoetis' Working Mother of the Year.

"To each of our colleagues, Zoetis means something different. But one thing unites us: our goal of advancing animal care to benefit the world and humanity," said Roxanne Lagano, Executive Vice President, Chief Human Resources Officer, and Global Operations. "We believe that providing inclusive, family-friendly benefits and a flexible work environment helps all of our colleagues thrive and connect with our purpose on an individual level, thereby positively impacting animal health every day." We are honoured to be named one of Seramount's 100 Best Companies for Working Parents once more."

About Zoetis

As the world's leading animal health company with its leading portfolio and pipeline of medicines, vaccines, diagnostics and technologies makes a difference in over 100 countries. A Fortune 500 company, Zoetis generated revenue of \$8.1 billion in 2022 with approximately 13,800 employees. For more information, visit www.zoetis.com.

About Seramount

Seramount is a strategic professional services and research firm dedicated to supporting high-performing, inclusive workplaces. Seramount partners with over 450 of the world's most influential companies, large and small, to offer

pragmatic solutions including best practice DEI research, workplace assessment, employee learning and development, and talent sourcing.

BASF's Green Energy Investments to Drive Future Reductions in Carbon Emissions

- Product Carbon Footprints (PCFs) for vitamins, carotenoids, beverage processing polymers, feed enzymes, and feed performance ingredients are now available on request - methodology is certified to international standards.
- PCFs for specific vitamin A and E products that are at least 20% higher than the global market average BASF Verbund, resulting in highly efficient resource use
- BASF's investments in green energy are expected to reduce PCFs further in the future and support customers' emission reduction targets.

Product Carbon Footprints (PCFs) for vitamins, carotenoids, beverage processing polymers, feed enzymes, and feed performance ingredients for the human and animal nutrition markets have been calculated by BASF. TÜV Rheinland has certified the BASF PCF calculation methodology in accordance with ISO 14067:2018, an internationally recognised standard.

The PCF calculates a product's total greenhouse gas emissions over the course of its life cycle. As a result, PCFs have become the primary tool for increasing transparency about emissions and identifying levers to reduce CO2 emissions. BASF product PCFs include all product-related greenhouse gas emissions that occur before the BASF product leaves the factory gate for the customer: from the purchased raw material to the use of energy in manufacturing processes.

According to a benchmarking study, the PCF for specific BASF vitamin A and E products is significantly higher – by at

least 20% – than the global market average PCF of the corresponding third-party products.² BASF benchmark assessments were carried out in accordance with ISO 14044, ISO 14067, and the GHG protocol standard. TÜV Rheinland's independent certification confirms the calculation of PCFs and market averages in accordance with ISO 14067:2018, based on data provided by BASF. The certification is documented in a database (www.certipedia.com) and is available upon request to all customers.

BASF conducted the benchmarks for specific vitamin A and E products because they have a high potential for CO₂ avoidance for customers. BASF will consider expanding this approach to include additional products in its vitamin and carotenoid portfolio.

The unique BASF Verbund: highly efficient use of resources as well as lower carbon-emitting energy sources and raw materials is a major factor contributing to the lower PCF of the respective products.

BASF's long-term goal is to maintain its competitive PCF advantage. Recent investments in a world-scale wind farm, long-term renewable Power Purchase Agreements, and strategic partnerships on industrial-scale heat pumps will allow for significant reductions in emissions.

About BASF

At BASF, we create chemistry for a sustainable future. We combine economic success with environmental protection and social responsibility. More than 111,000 employees in the BASF Group contribute to the success of our customers in nearly all sectors and almost every country in the world. Our portfolio comprises six segments: Chemicals, Materials, Industrial Solutions, Surface Technologies, Nutrition & Care and Agricultural Solutions.

Virbac will enter the fast-growing poultry vaccines segment in India

Virbac has announced the signing of an agreement to acquire Globion, a



leading Indian poultry vaccines specialist. This transaction will strengthen their position as India's animal health market leader by expanding Virbac India's existing poultry portfolio into the growing segment of avian vaccines.

Globion, founded in 2005 as a joint venture between Suguna Group, one of the leading Indian poultry conglomerates, and Lohmann Animal Health, a German poultry vaccines specialist, has developed strong know-how and expertise in the development, manufacturing, and commercialization of live and inactivated vaccines targeting a wide range of avian pathogens.

Globion is based in Hyderabad, where its industrial and R&D facilities employ approximately 120 full-time employees and generate approximately €12 million in annual revenue. It is independently managed by a professional team.

Sébastien Huron, chief executive officer, Virbac group said "We are extremely pleased and honored to welcome the Globion team within our Virbac family. This acquisition illustrates our 2030 Virbac vision and ambition to grow through "programmatic" M&A investing in vaccines, a key strategic axis of development, reinforcing our leadership position in India, the world's most populous country, and completing our portfolio targeting the dynamic and promising poultry market. We will fully engage with the Globion teams and provide them with additional resources to help them perform at their best. We are united with the Suguna and Globion teams by

the common ambition to create long-term value for our customers and build, through innovation, a competitive portfolio of products to support the poultry industry in India and abroad."

B.Soundararajan, founder and managing director, Suguna Group said "We started Globion primarily as a source of High Quality Affordable Poultry Vaccines for Suguna Foods. In the last ten years, Globion has rapidly transformed into a fast-growing poultry biologicals company crossing 1 billion rupees of revenues by consistently gaining market share in India & export markets. By associating with a strategic partner having long term vision, infrastructure and deep understanding of animal health in Indian and global markets, we see immense potential for Globion to reach greater heights. Virbac comes out as the right choice for us since Virbac and Suguna share a common vision of adding value to the poultry industry and Virbac's acquisition of Globion is a significant step in that direction. We will continue to remain a key customer of Globion/Virbac in the future and our best wishes to both Globion/Virbac teams for continued success."

About Virbac

Virbac, provides innovative solutions to veterinarians, breeders and animal owners in more than 100 countries around the world. Covering more than 50 species, their range of products and services makes it possible to diagnose, prevent and treat the majority of pathologies. Every day, they are committed to improving the quality of life of animals and together shaping the future of animal health.

Country Chicken Co.: Raising the Bar with Flavors of Healthy Natukodi Chicken



Country Chicken Co., World's First & India's most premium Country Chicken Brand; launched its 7th Premium outlet in the city at Chandanagar, today. Sri Arekapudi Gandhi Garu, MLA, Serilingampally; inaugurated the outlet. Sri Jagadeeshwar Goud Garu, Corporator, Madhapur; V Pujitha Goud Garu, Corporator, Hafeezpet; Sri Sandeep Kumar Sultania Garu, Secretary, PR & RD, Govt. of TS; Sri Gowtham Potru Garu, CEO-SERP, Telangana; Sri Vidya Sagar Garu, Street Nidhi – MD; Smt N. Rajitha Garu, MD-SERP, Telangana; graced the occasion. G Saikesh Goud, Co-Founder & CEO; Mohd Sami Uddin, Co-Founder-COO and Abhishek Patawar, CSO, Country Chicken Co., were present on the occasion.

Speaking on the occasion, Sri Arekapudi Gandhi Garu stated, "We need to reflect on what we are consuming in the name of chicken, is the flesh that we consume healthy or leading to our ill health." Are we certain we are not eating diseased or infirm chicken? Here are highly qualified engineers who, rather than relying on a job and working for someone, have founded Country Chicken Co. and are employing others. They provide healthy

meat from natu kodi and rare birds such as the kadaknath breed, which are known to be delicious and nutritious. These birds are bred in natural environments with no restrictions on movement and are fed healthy grains and nutrients to grow into healthy birds. Country Chicken Co.'s most sanitary stores sell chicken meat. More such

outlets that provide healthy and nutritious chicken meat in sanitary conditions are needed. I wish these young entrepreneurs tremendous success and hope that their outlets expand from the current 7 to 70 and provide the best chicken to chicken lovers.

Country Chicken Co. has made waves in Hyderabad's culinary scene over the course of one and a half years. With the grand opening of a new store, this beloved brand is gearing up to delight natukodi and health-conscious enthusiasts across the city.

Country Chicken Co. has established itself as a reliable source of healthy, affordable, and authentic country chicken in Hyderabad. Unlike many local shops that struggle with issues of authenticity, quality, and hygiene, Country Chicken Co. has consistently delivered the freshest and highest-quality meat to its discerning customers.

Country Chicken Co., sells authentic natukodi (desi chicken) and other products; these birds are bred in village backyards and free-range farms and are steroid and antibiotic free. The brand sells three types of chicken: village

birds, free range birds, and a recently launched chicken called Nutrisoft chicken, which is a healthier alternative to regular chicken. The store visit is enjoyable in and of itself, with the pioneering odor-free outlets.

One of the distinguishing characteristics that distinguishes Country Chicken Co. is its commitment to providing customers with meat that has never been stored in a freezer. Their commitment to freshness is evident in every bite, providing a culinary experience that captures the essence of locally sourced ingredients.

Country Chicken Co. caters to customers from all walks of life, offering a diverse range of seven poultry varieties to ensure that everyone can enjoy their delectable offerings. However, the brand does not stop with poultry; they also offer a variety of complementary products such as eggs and pickles, which add a unique twist to their offerings.

Country Chicken Co.'s journey has been nothing short of spectacular, having served over 25,000 satisfied customers in Hyderabad. Their dedication to quality and authenticity has not only earned them a loyal customer base, but has also fueled their continuous growth. Has earned them the trust and loyalty of a growing customer base.

As Country Chicken Co. expands its presence throughout Hyderabad, it remains committed to providing the freshest, most authentic poultry products to its discerning customers. With the addition of these new locations, they are poised to become the go-to destination for Chicken lovers throughout the city.

Karnataka High Court Ruling Reaffirms Poultry Farming's Agricultural Identity

The Karnataka High Court recently ruled that because poultry farming is an



agricultural activity, it cannot be classified as "commercial," allowing gramme panchayats to levy taxes under the Karnataka Gramme Swaraj and Panchayat Raj Act.

According to Justice Suraj Govindaraj, a poultry farm is an agricultural activity that does not necessitate the conversion of land for any commercial purpose.

Petitioner K Narasimhamurthy, who owns four acres of land in Nagasandra village, approached the gramme panchayat to obtain a NOC to obtain an electricity connection for a building built in a portion of the property where he intended to do poultry farming.

However, the gramme panchayat authorities demanded Rs 1.3 lakhs for issuing the NOC, claiming that he would have to pay taxes on the property because it would be classified as an industry.

Narasimhamurthy paid Rs 59,551 because he had no other choice.

However, after realising that the village panchayat lacked authority, he decided to file a petition with the High Court, claiming that poultry farming is an agricultural activity.

The government, on the other hand, argued that poultry farming is a commercial activity subject to taxation under Cause A(ii) of Schedule IV. However, after considering the provisions of the 1993 Act, Justice Suraj Govindaraj observed that Schedule IV lacks any categorization of poultry farms that allows panchayats to levy taxes.

Poultry Tech Summit 2023: Unleashing Innovation for a More Profitable Future

The agenda for the Poultry Tech Summit, the essential global event for collaborating on next-generation technologies, is jam-packed with new ideas that improve profitability and productivity for growers, integrators, and processors.

The 2023 event is scheduled for November 6-8, 2023, at a new location in Atlanta, Georgia, at the conveniently located Hilton Atlanta Airport. Registration is now open, with early bird discounts expiring on September 29.

According to Terrence O'Keefe, content director at WATT Global Media to improve and streamline their facilities, poultry operations must turn to cutting-edge technology. The Poultry Tech Summit allows us to explore new innovations that address poultry industry challenges such as coccidiosis, Salmonella, and labour shortages. By attending, participants have the opportunity to engage in discussion, gain knowledge and plan for future improvements.

There are over 20 innovation and technology presentations on the agenda, including data and artificial

intelligence, life sciences, robotics and automation, and food safety.

Meghan Bowman, Ancera, will present next generation coccidia monitoring; Bowen Cai, Shanghai Xiashu Intelligent Company, will use artificial intelligence to automate broiler chick sexing; Tristan Bond, Agrinerds, will develop the next generation of poultry economics software; Rob Payne, Cargill Animal Nutrition, will present digital tools to improve layer management and performance; Marcel Sarzen, AGL Technology, will present precision farming to streamline poultry operations;

Furthermore, panellists will discuss technology and the future of HPAI control, as well as the challenges and technical solutions for egg production, poultry processing, and meat bird production. Executives from Butterball, Boehringer Ingelheim, Ceva Sante Animale, George's Inc., Herbrucks, Wayne-Sanderson Farms, Versova, and other companies will participate in the panel discussions.

The conference will bring together innovators, researchers, start-ups, investors, and leading poultry producers to learn, discuss, and network about the most recent advances in biology, engineering, and business.

To view the complete agenda and register, go to PoultryTechSummit.com.

World's First AI-Powered Commercial Chick Sexing Machine Unveiled by Shanghai's Xiashu Tech

It is still extremely difficult and time-consuming to determine the sex of day-old chickens. According to statistics, human operators require at least three months of training to master the skills of checking a chick's sex with the naked eye.

Xiashu Technology



Precision is heavily influenced by human learning capacity, age, and mental state. Fatigue, distraction, and a bad mood are all factors that could affect their ability to identify. Because of the high training costs, age, skill, and sight requirements, the payoff of the chick sexing industry is extremely high, typically exceeding US\$60,000 per year in Western countries.

Shanghai Xiashu Intelligent Technology invented the world's first commercial use chicken vent sexing machine. The machine, which is powered by artificial intelligence, can identify white and coloured broilers, layers, and turkeys with 98.5% accuracy and 1,000 chicks per hour and has been adopted in many grandparent plants around the world.

Deep learning artificial intelligence and computer vision technology can accurately identify the sex of broiler and layer chicks, lowering labour costs and improving hatchery efficiency.

Cai and his colleagues at Xiashu Tech earned PhDs from the University of Pennsylvania, the University of Michigan, and Harvard University in the United States before founding Xiashu in 2017. This company came in seventh place in the world artificial intelligence competition of the Big Data Expo in China and is now the fastest-growing company at Shanghai Tongji University Science Park.

To build the model, Xiashu's research team spent four years collecting massive amounts of data from various types of broilers, layers, and turkeys. The first machine was sold in China in 2021 for yellow broilers, and tens of millions of chickens have since validated its accuracy and efficiency.

There are two vent sexing machine modules available: one is an independent operation unit, and the other is a modified version that can be installed on the production line.

Xiashu-tech, based in Shanghai, is

dedicated to AI applications in poultry science. Xiashu also manufactures a feather sexing machine (99% accuracy, 3,000 pcs/h), a duck sexing machine, and poultry image weight systems in addition to the vent sexing machine. The poultry image weight system employs deep learning imaging technology to measure poultry weight with 98.5% accuracy while distinguishing between male and female poults. Customers in Asia are now using this image weighing system, which works well for chicken, duck, and turkey.

Boehringer Ingelheim to Showcase Digital Transformation and Green Initiatives at CIIE 2023

Boehringer Ingelheim, a German biopharmaceutical company, announced on September 22 that it will

debut eight new human pharmaceutical and animal health products and solutions at the sixth China International Import Expo (CIIE) in Shanghai this November.

The company's booth at this year's expo, themed "innovation for human and animal health," will highlight its achievements in research and development, digital transformation, and green and low-carbon development in China.

In addition, the company will launch an intelligent and immersive digital exhibition zone that will showcase a variety of digital solutions and forward-thinking concepts.

"The CIIE is an important platform for promoting integration and knowledge exchange between China and global markets." "Our five-year participation in the CIIE demonstrates our strong confidence in the Chinese market and reinforces our commitment to align with China's new paradigm of high-quality development," said Pavol Dobrocky, president and CEO of Boehringer Ingelheim China.

"We are looking forward to leveraging the CIIE platform to expedite the introduction of our cutting-edge global products, solutions, and visionary ideas into China."

Boehringer Ingelheim has used the CIIE to launch nearly 30 innovative products and solutions over the last five years. Many of these exhibits have since received commercial approval in China.

SoundTalks, the first-of-its-kind swine respiratory disease monitoring tool, was introduced as a concept product at



the CIE 2019. The company began commercial production of SoundTalks last year, which are expected to help the pig farming industry reduce costs and increase efficiency.

Boehringer Ingelheim intends to invest more than 4 billion yuan (\$547 million) in R&D in China over the next five years. According to the company, more than 15 new products and indications in animal health are expected to be approved in China over the next five years, covering key species of commercial animals and companion animals.

Cargill's Protein Innovation Hub in France Leads the Way in Pioneering Protein-Rich Menus

Cargill has upgraded its chicken speciality facility in Saint-Cyr-en-Val,



France, with a new Protein Innovation Hub that will allow customers to

collaborate on protein-rich menu strategies. The site promotes protein innovation, including but not limited to chicken, and includes a pilot plant for testing new products and concepts.

The site hosts demonstrations or live streaming of culinary preparations (Image credit: Cargill).

The French plant has been in operation for 30 years and supplies over 2,000 McDonald's restaurants throughout France and Europe, sourcing 70% of meat locally from France and 100% for Chicken McNuggets.

Cargill has made significant investments in the French poultry value chain, and this expansion programme will increase output capacity by 10%. According to the company, the new facility is part of a €50 million (US\$53 million) investment in the premises that will see nearly 70% of the production



facilities renovated by 2025.

Consumers are increasingly looking for more convenient protein options that are ready-to-eat, pre-cooked, and portable. With plant-based and meat alternatives increasingly populating supermarket shelves and restaurant menus, protein sources are becoming more diverse, particularly in Western European markets.

Cargill's new plant, according to the company, meets customers' needs for inspiration, innovation, and increased speed-to-market. The concept of idea-

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to-execution starts with product co-creation, in which customers can create or re-create samples of finished products created by chefs. In order to improve co-development and customer experience, the facility also includes a restaurant and space for workshops, training, and demonstrations.

According to research, significant challenges for the poultry industry and its strategic future include poultry welfare (hygiene and disease control), antibiotic fortification in animal diets, and consumers' perspectives on the quality and safety of animal products. Furthermore, there are public health concerns about antibiotic overuse as growth promoters, which leads to the development of resistant bacteria.

The environmental impact of the poultry industry is also noteworthy, with the European Environmental Bureau pointing out that, despite accounting for only 13% of farms, livestock farms account for 60% of ammonia and 43% of total EU methane emissions.

Cargill is also focusing on improving feed efficiency and reducing the amount of land required for cultivation. It uses alternative proteins in feed to reduce the environmental impact of traditional feed crops.

Because of the industry's collaborative efforts to improve genetics, animal husbandry, nutrition, and animal welfare, the carbon footprint of chicken meat is now more than 40% lower than it was 40 years ago.

Cargill is piloting ChickenCheck, an automated welfare tracking system that uses 24/7 audio and video monitoring via AI technology to help farmers intervene early at the first sign of health and welfare challenges while limiting daily contact, thus promoting more natural conditions, to ensure chicken welfare.

Notably, food and beverage companies around the world are making strides in using AI to improve animal welfare. In China, scientists are investigating AI and machine learning to protect livestock from antibiotic-resistant microbes.

Authorities are also concerned about

animal welfare. The European Commission announced plans earlier this year to increase animal welfare efforts by limiting journey times, space allowance, and intensive farming. Meanwhile, the Eurogroup for Animals advocated for the elimination of cages, the prohibition of systematic culling of male chicks, and the prohibition of slaughter practises such as water baths and CO2 for poultry and pigs.

Meanwhile, agri-food innovators are investigating machine learning and artificial intelligence (AI) for better beekeeping via a real-time food and fibre verification tool.

France has been among the countries hardest hit by the unprecedented global spread of highly pathogenic avian influenza, also known as bird flu, which has disrupted poultry meat and egg supply and sent prices skyrocketing in many parts of the world in recent years.

The ravages inflicted on its flocks, combined with concerns that the virus could mutate into one that is transmissible to humans, prompted the French government to launch a mandatory vaccination campaign, making it the first poultry exporting country to do so.

In the presence of French Agriculture Minister Marc Fesneau, the first shots were fired at ducks on a farm in the Landes, a region in southwestern France.

Over 60 million ducks will need to be vaccinated over the course of a year, at a cost of €96 million, with the state covering 85 percent of the cost.

Vaccination is being considered by an increasing number of governments as a means of containing the highly contagious bird flu. However, the trade barriers that vaccination can cause have made large poultry exporters wary of immunising their birds. Beginning on October 1, the United States imposed restrictions on French poultry imports, citing the risk of introducing the virus into the country.

According to the US Department of Agriculture, vaccinated birds may not show signs of infection, making it impossible to determine whether the

virus is present in a flock. Despite extensive discussions, Japan was still hesitant to accept French poultry after vaccination.

Bird flu vaccine drive prompts US ban on French poultry imports

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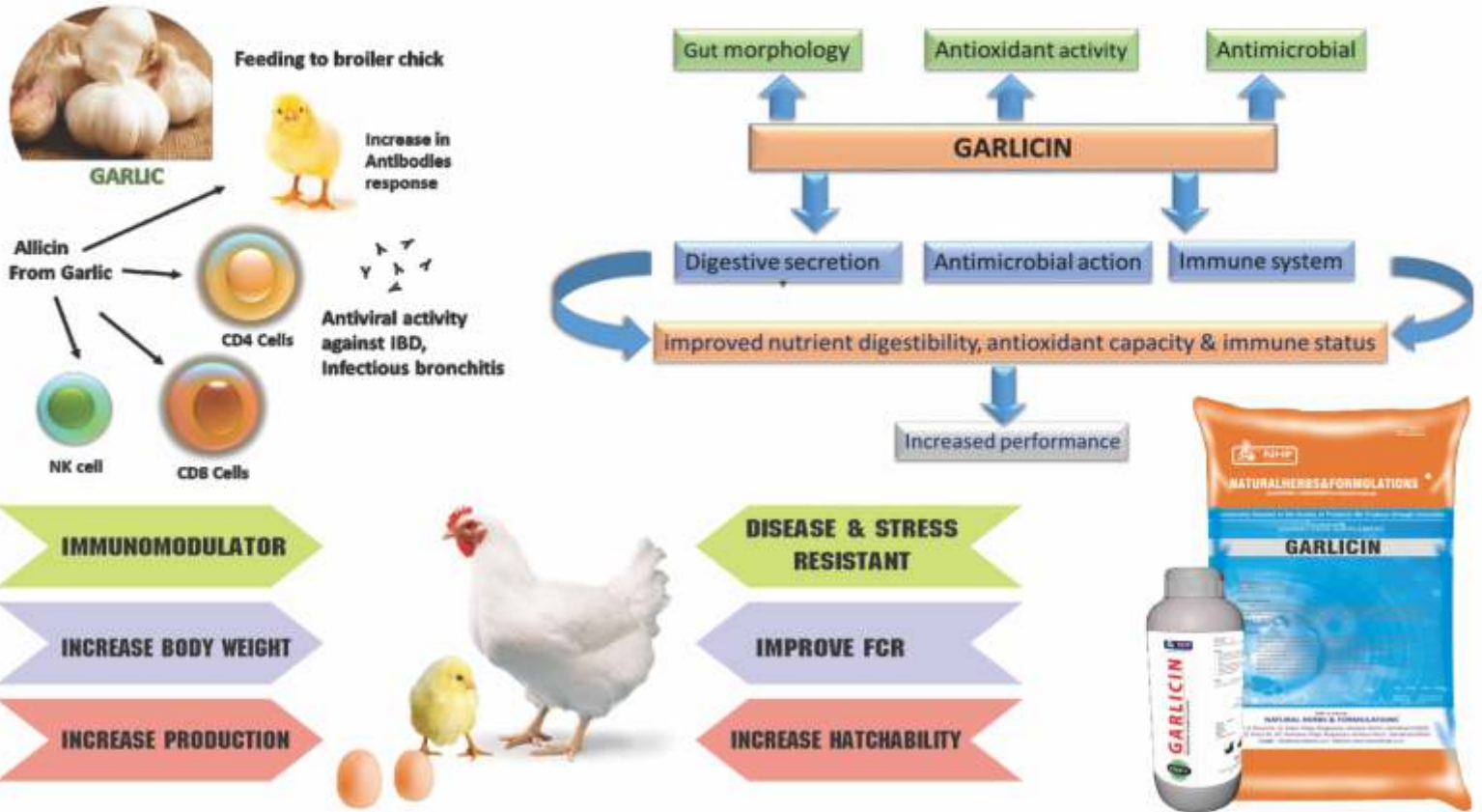
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Name Of Zone / Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Average	
NECC SUGGESTED EGG PRICES																																
Ahmedabad	500	500	480	480	485	490	495	495	495	500	505	510	515	515	515	515	515	520	535	540	545	545	545	550	555	555	555	555	555	555	520.33	
Ajmer	475	465	468	483	488	490	492	492	492	500	510	510	510	510	490	490	506	521	521	521	521	521	521	531	535	535	535	535	520	530	507.27	
Barwala	472	462	465	477	485	487	490	490	492	496	501	501	501	501	501	506	520	520	520	520	520	520	520	528	531	531	531	531	531	531	505.40	
Bengaluru (CC)	465	450	440	440	460	475	480	480	480	485	495	500	505	510	515	515	515	520	530	535	535	535	535	535	535	535	535	535	535	535	504.83	
Brahmapur (OD)	497	497	497	497	507	517	517	517	517	522	527	532	532	532	532	532	535	540	557	557	557	557	557	542	545	550	555	555	555	547	532.63	
Chennai (CC)	490	490	475	475	475	475	490	490	490	490	500	510	520	520	520	520	520	520	540	540	540	540	540	540	540	540	540	540	540	540	515.00	
Chittoor	483	483	468	468	468	468	483	483	483	483	493	503	513	513	513	513	513	513	533	533	533	533	533	533	533	533	533	533	533	533	508.00	
Delhi (CC)	490	490	480	483	497	505	505	510	510	512	518	522	522	522	522	522	522	525	540	540	540	540	540	540	548	551	551	551	551	551	523.33	
E.Godavari	475	475	475	475	485	495	495	495	495	500	505	510	510	510	510	510	513	516	535	535	535	535	520	523	528	533	533	533	533	525	510.57	
Hospet	425	410	400	400	420	435	440	440	440	445	455	460	465	470	475	475	475	480	490	495	495	495	495	495	495	495	495	495	495	495	464.83	
Hyderabad	450	430	430	440	450	455	455	455	460	465	470	475	480	480	480	480	485	501	506	511	511	511	511	511	516	516	516	500	500	502	481.73	
Jabalpur	463	463	463	463	463	468	473	473	473	473	485	500	500	500	500	500	500	500	540	530	530	530	515	520	525	528	528	520	510	510	498.20	
Kolkata (WB)	550	550	520	555	565	565	565	570	570	580	585	585	585	575	565	555	545	615	615	615	615	585	585	590	590	590	590	590	585	590	578.00	
Ludhiana	472	472	472	472	490	490	490	490	490	491	498	500	500	500	500	500	500	510	520	520	520	520	520	520	528	530	530	530	530	530	504.50	
Mumbai (CC)	505	505	485	485	495	505	510	510	510	515	520	525	535	540	540	540	540	545	560	570	575	575	575	575	575	575	575	575	565	565	539.00	
Mysuru	465	450	440	440	460	475	480	480	480	485	495	500	505	510	515	515	515	520	530	537	537	537	537	537	537	537	537	537	537	537	505.57	
Namakkal	435	415	400	400	420	430	435	435	435	440	450	455	460	465	470	475	475	475	485	490	490	490	490	490	490	490	490	490	490	490	461.50	
Pune	490	490	480	480	490	501	505	505	505	510	515	520	525	530	530	530	530	540	555	560	565	565	565	568	571	574	574	565	565	532.57		
Raipur	460	460	450	455	470	480	480	480	470	480	495	500	500	480	505	495	495	495	541	541	531	520	510	510	525	525	520	515	495	-	495.97	
Surat	505	505	485	485	490	500	500	500	500	505	510	515	525	525	525	525	525	530	550	555	560	560	560	560	570	575	575	575	575	575	531.50	
Vijayawada	475	475	475	475	485	495	495	495	495	500	505	510	510	510	510	510	513	516	535	535	535	535	520	523	528	533	533	533	533	525	510.57	
Vizag	480	480	480	485	500	500	500	500	500	500	505	510	510	510	510	510	515	525	535	535	535	535	520	523	528	533	533	533	533	533	513.20	
W.Godavari	475	475	475	475	485	495	495	495	495	500	505	510	510	510	510	510	513	516	535	535	535	535	520	523	528	533	533	533	533	525	510.57	
Warangal	452	432	432	442	452	457	457	457	462	467	472	477	482	482	482	487	503	508	513	513	513	513	513	513	518	518	518	502	502	504	483.73	
Prevailing Prices																																
Allahabad (CC)	495	495	490	495	510	514	524	524	524	524	533	533	538	538	538	538	538	553	562	562	562	552	552	571	571	571	571	571	557	557	538.77	
Bhopal	475	475	475	460	460	475	480	480	480	480	490	495	505	505	505	505	515	515	515	535	535	535	505	505	505	525	525	510	505	505	499.33	
Indore (CC)	475	460	460	455	480	480	480	480	480	490	495	500	505	505	505	505	515	540	540	540	540	540	540	540	540	540	540	530	530	535	508.83	
Kanpur (CC)	500	500	481	490	500	500	514	514	514	514	529	529	538	538	538	538	538	548	548	548	548	548	557	571	571	571	571	571	557	557	534.70	
Luknow (CC)	517	517	517	517	517	533	540	540	540	540	560	560	567	567	567	567	553	567	567	567	567	567	576	583	590	590	590	590	590	590	558.43	
Muzaffurpur (CC)	537	537	530	540	550	550	555	555	555	558	565	565	565	565	560	560	570	580	580	581	581	581	581	581	592	595	595	595	595	595	568.77	
Nagpur	460	480	460	460	480	490	460	480	465	490	480	480	510	510	510	510	530	530	550	560	560	540	540	530	530	530	540	540	540	509.50		
Patna	537	537	530	540	550	550	555	555	555	558	565	565	565	565	560	560	570	580	580	581	581	581	581	581	592	595	595	595	595	595	568.77	
Ranchi (CC)	533	524	524	524	533	538	533	538	543	548	557	557	557	562	548	548	548	567	590	590	590	581	581	581	581	581	581	581	581	559.37		
Varanasi (CC)	523	523	523	533	540	540	540	540	543	550	557	557	557	557	557	557	557	573	583	583	583	583	583	583	590	593	593	593	577	577	561.93	

Editorial Calendar 2023

Publishing Month:

January

Article Deadline :

28th, Dec. 2022

Advertising Deadline :

30th, Dec. 2022

Focus :

Winter Disease Management

Publishing Month:

February

Article Deadline :

28th, Jan. 2023

Advertising Deadline :

30th, Jan. 2023

Focus :

Health & Nutrition Management

Publishing Month:

March

Article Deadline :

26th, Feb. 2023

Advertising Deadline :

28th, Feb. 2023

Focus :

Vaccination & Immunization

Publishing Month:

April

Article Deadline :

28th, March 2023

Advertising Deadline :

30th, March 2023

Focus :

Summer Management

Publishing Month:

May

Article Deadline :

28th, April 2023

Advertising Deadline :

30th, April 2023

Focus :

Cold Chain Management

Publishing Month:

June

Article Deadline :

28th, May 2023

Advertising Deadline :

30th, May 2023

Focus :

Feed Production

Publishing Month:

July

Article Deadline :

28th, June 2023

Advertising Deadline :

30th, June 2023

Focus :

Layer Farming

Publishing Month:

August

Article Deadline :

28th, July 2023

Advertising Deadline :

30th, July 2023

Focus :

Genetics & Breeding

Publishing Month:

September

Article Deadline :

28th, August 2023

Advertising Deadline :

30th, August 2023

Focus :

Biosecurity Practices

Publishing Month:

October

Article Deadline :

28th, September 2023

Advertising Deadline :

30th, September 2023

Focus :

Winter Breeding Management

Publishing Month:

November

Article Deadline :

28th, October 2023

Advertising Deadline :

30th, October 2023

Focus :

Environment Control

Publishing Month:

December

Article Deadline :

28th, November 2023

Advertising Deadline :

30th, November 2023

Focus :

Industry Outlook

Subscription Rates

Time Period

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3 Year INR 6500 USD 650

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*18% GST Extra

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Account Type: Current
Account Name: Pixie Expomedia Pvt. Ltd.
Account Number: 120000991579
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Front Title Inside	30000 <input type="checkbox"/>	Back Title Inside	25000 <input type="checkbox"/>
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01-03 August 2024

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