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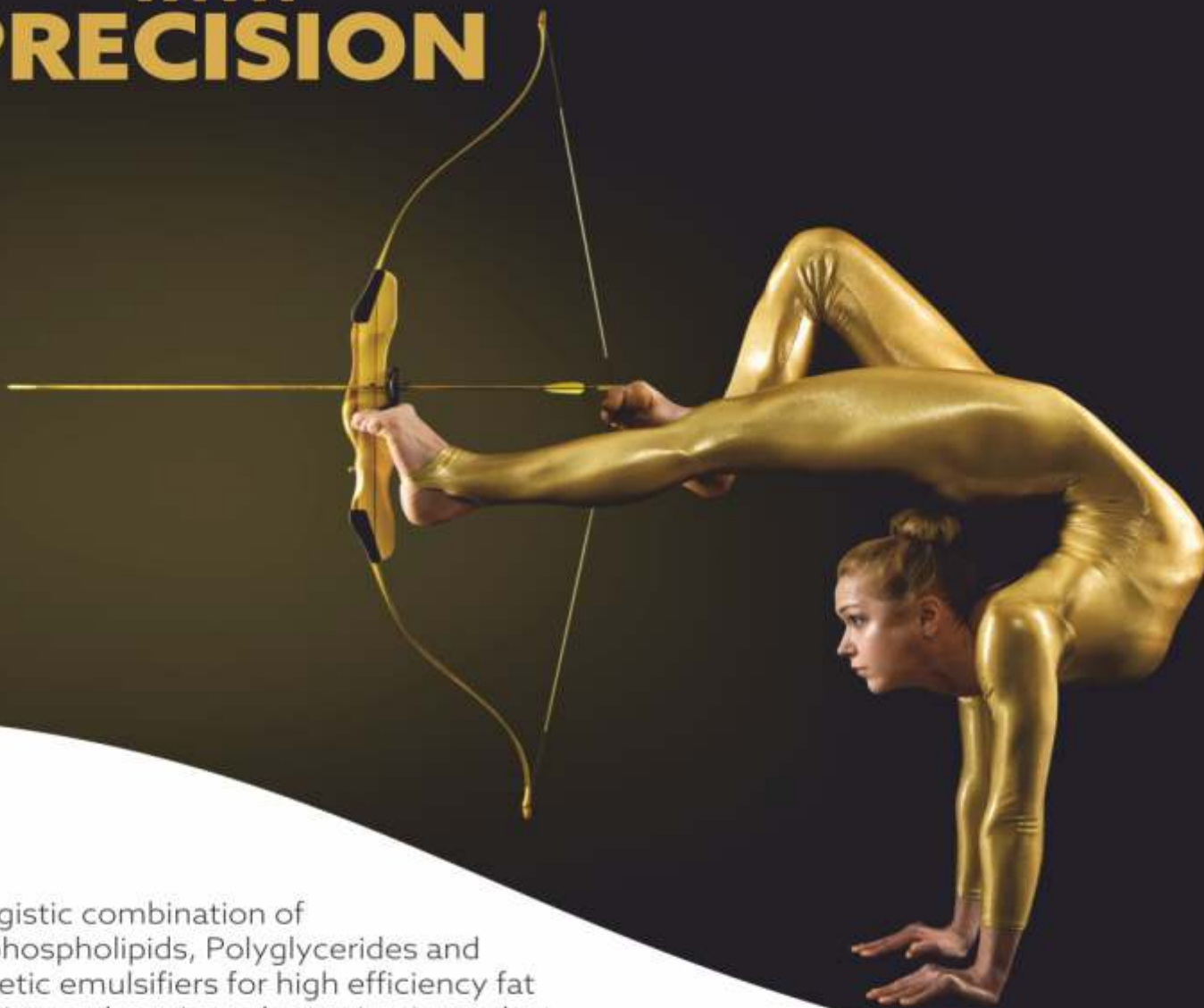
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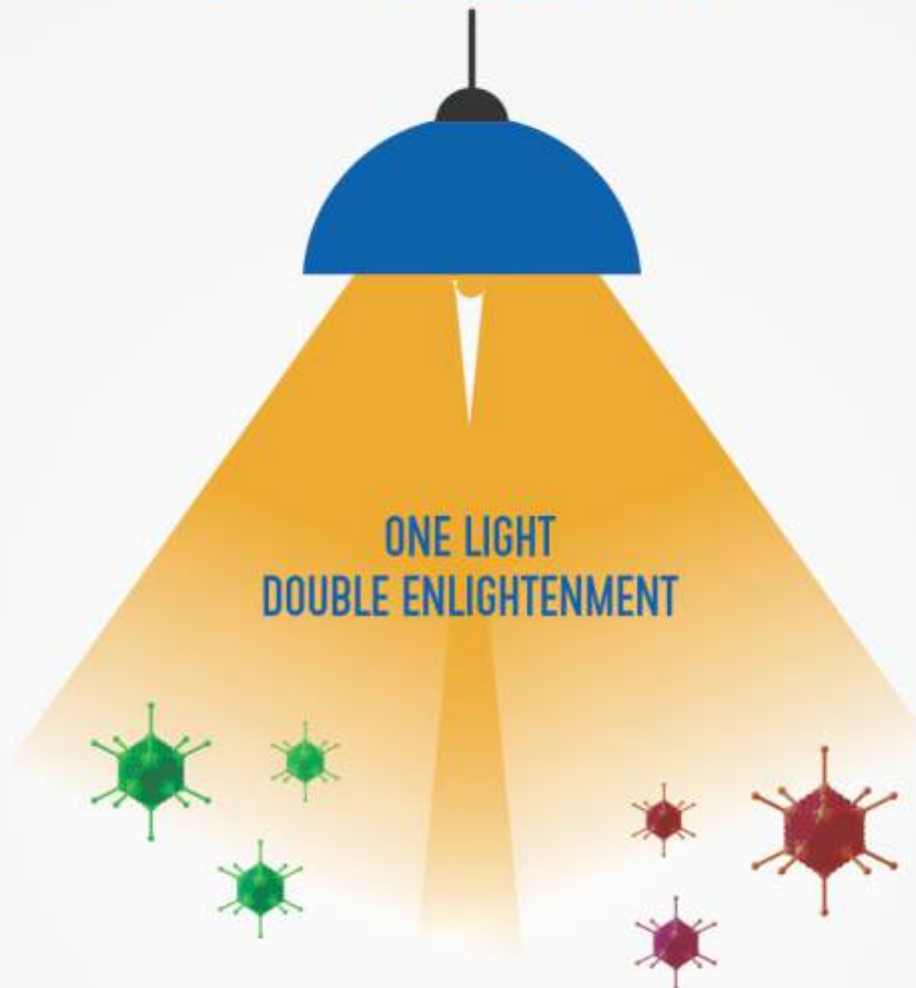
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From the Editor's Desk

Beat the Heat with a Cool, Calm and Hydrated Flock

With summer comes heat stress in poultry leading to a range of health issues, reduced feed intake, dehydration, reduced growth rates, decrease in egg production, lower feed conversion efficiency and increased mortality resulting in economic losses for the poultry farmer.

Visible behavioral changes like increased aggression, reduced activity, and increased panting and wing flapping are a key indicator of summer stress. Some steps to combat heat stress include provide shade and protecting birds from direct sunlight. Providing a proper ventilation system and reducing the ambient temperature by installing fans, misters, or evaporative cooling systems prevent heat stress and respiratory problems.

Hydration is one of the most important factors to consider in summer management of poultry. Lethargy, panting, sunken eyes, and decreased feed intake are signs of dehydration. Monitor the birds for signs of dehydration.

Providing adequate, clean, cool water regularly is essential in preventing dehydration and reducing heat stress. Dirty water can cause health problems, and warm water may discourage them from drinking enough. Electrolytes can be added to the water to help replace essential minerals lost through sweating or panting. Avoid adding supplements to the water as they may spoil and become a breeding ground for harmful bacteria.

Adjusting the diet to include more fiber, protein, and fat can help improve bird energy levels and reduce heat stress. Monitor feed consumption and consider adjusting the feeding schedule to early morning or evening to avoid feeding during the hottest part of the day.

Summer is the peak season for insects and parasites. Keep flies, mosquitoes, and other pests under control. Above measures, timely implemented can go a long way in beating the heat.

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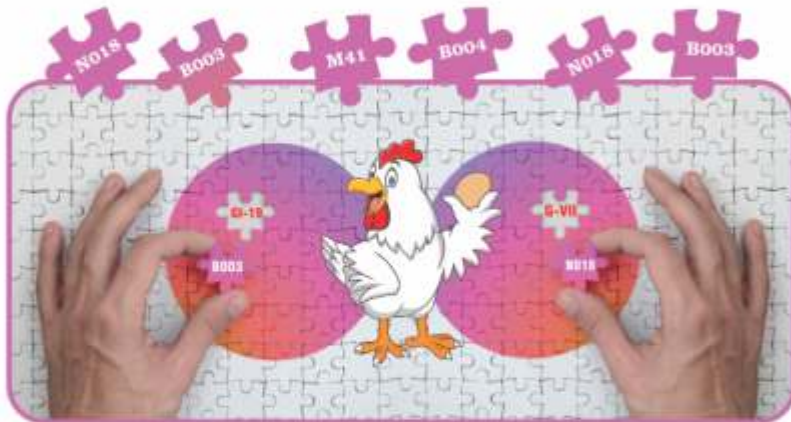
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Chilling with the Chicks: Ventilation and Cooling Equipment in India's Poultry Industry

Are you feeling the heat? Well, your feathered friends might be feeling it too! As a poultry farmer, you know that maintaining the right temperature and humidity levels is crucial to the health and productivity of your flock. And what's the key to achieving that? You guessed it - proper ventilation and cooling equipment! In India, where the temperature can soar to unbearable heights, investing in the right equipment can mean the difference between a thriving poultry business and a costly disaster. So, let's dive into the world of ventilation and cooling equipment in the Indian poultry industry!

In recent years, the poultry industry has seen tremendous growth in India, and with this growth comes the need for proper ventilation and cooling equipment to ensure the health and well-being of the birds. Poultry birds require a specific environment to thrive, and one of the most important factors in maintaining that environment is temperature control.

The importance of ventilation and cooling equipment in poultry farming cannot be overstated. Poultry birds are highly sensitive to temperature changes, and if the temperature is not regulated properly, it can lead to heat stress, respiratory problems, and even



death. The use of proper ventilation and cooling equipment is crucial in maintaining a healthy and productive poultry flock.

There are various types of ventilation and cooling equipment available in the market today, and choosing the right one can be a daunting task. In India, some of the most common types of equipment used for ventilation and cooling include exhaust fans, evaporative cooling pads, and air coolers.

Exhaust fans are a popular choice in India due to their affordability and effectiveness. They work by extracting hot air and moisture from the poultry house, creating a more comfortable environment for the birds. However, their effectiveness is dependent on the size of the fan and the number of fans installed.

Evaporative cooling pads are another popular option, especially in areas with high temperatures and low humidity. They work by pulling hot air through a wet pad, which then cools the air as it passes through. This type of cooling is highly effective, but it requires a continuous supply of water, which can be a challenge in some areas.

Air coolers are also a popular choice in India, especially in areas with low humidity. They work by drawing in hot air and passing it through a cooling medium before blowing the cool air back into the poultry house. However, they are less effective than evaporative cooling pads and can be costly to maintain.

Proper installation and maintenance of ventilation and cooling equipment are crucial in ensuring their effectiveness. Regular cleaning of fans and cooling pads is necessary to prevent the buildup of dust and other particles, which can reduce the equipment's efficiency.

Another common type of cooling equipment used in poultry farms in India is the evaporative cooling system. This system works by forcing air through a wet pad, which cools the air as it passes through. The cooled air is then circulated through the poultry house, creating a comfortable environment for the birds.

In addition to these cooling systems,



proper ventilation is also crucial for maintaining a healthy and comfortable environment in poultry houses. Good ventilation helps to remove excess heat, moisture, and contaminants such as ammonia and dust, which can all have negative effects on bird health and productivity.

One way to ensure proper ventilation is by installing fans and air inlets throughout the poultry house. Fans help to move air through the house, while air inlets allow fresh air to enter. The key is to strike the right balance between ensuring adequate ventilation and avoiding excessive drafts, which can be harmful to the birds.

Other ventilation equipment used in poultry houses includes curtains and louvers, which can be adjusted to regulate the flow of air. Additionally, some farms use tunnel ventilation systems, which draw air through the house in a controlled manner.

One common solution for ventilation and cooling in poultry farms is the use of fans and evaporative cooling pads. The fans help to circulate air and maintain a comfortable temperature, while the cooling pads can lower the temperature by several degrees. These systems are relatively inexpensive and can be installed in almost any poultry house, making them popular choices among farmers.

Another method of ventilation and cooling is the use of tunnel ventilation systems. These systems work by creating a negative pressure inside the poultry house, which draws in cool air from outside through large fans at one end of the house and exhausts hot air through vents at the opposite end. Tunnel ventilation systems can be more expensive to install than simple fan and pad systems, but they can be more effective in maintaining a consistent temperature throughout the house.

Regardless of the type of ventilation and cooling system used, proper maintenance and monitoring is essential to ensure its effectiveness. Fans and pads should be cleaned regularly to prevent the build-up of dust and debris, which can reduce airflow and efficiency. Additionally, temperature and humidity levels should be regularly monitored to ensure that the birds are comfortable and healthy.

In summary, ventilation and cooling equipment is crucial for maintaining a healthy and productive poultry flock, especially in hot and humid climates like India. There are several different types of systems available, ranging from simple fan and pad setups to more complex tunnel ventilation systems. Whichever system is chosen, proper maintenance and monitoring is essential to ensure its effectiveness and the well-being of the birds.



Application of Probiotics for High-Producing Laying Hens

Wouter Van der Veken, Global Product Manager Feed Additives, Huvepharma.

When probiotics are discussed in general literature, much of the work has focused on applications in broilers. This is not very surprising, as setting up trials in animals with a short production cycle can be done quite cost-efficiently. Simultaneously, it is straight forward to understand why supporting the gut health of rapidly growing chickens is important, as their digestive system is running overtime and thus needs all the support it can get. Coupled with specific uses of certain probiotics, such as *Clostridium perfringens* mitigation by certain strains of *Bacillus licheniformis*, the value proposition of probiotics in broilers is quite clear.

Unfortunately the focus on developing feed additives for broilers has also translated in a limited number of options for producers of other types of poultry. In Europe for example, there are only a handful of probiotics registered for use in laying hens during egg production.

However, the application of probiotics in layers should not be neglected: high-producing laying hens also need to be as efficient as possible, which includes utilising their diet to the fullest whilst withstanding health challenges.

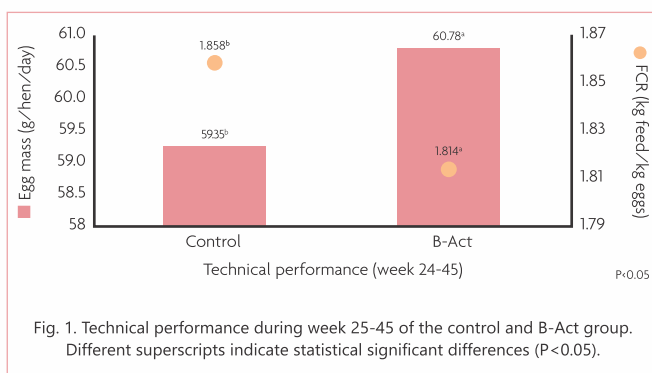


Fig. 1. Technical performance during week 25-45 of the control and B-Act group. Different superscripts indicate statistical significant differences (P<0.05).

The value of probiotic supplementation in laying hens

From that perspective the importance of a proper functioning gastrointestinal tract cannot be neglected, indicating the value a probiotic supplementation can bring in a layer operation.

One of the more recent additions to EU-registered layer probiotics is B-Act, a probiotic based on a single strain of spore-forming *Bacillus licheniformis*. The probiotic already has a long and extensive history in animal production, supporting high-performing animals during all stages of production. Recent research has now showed the unique *B. licheniformis* strain's benefits in layers, resulting in a zootechnical feed additive registration in the EU.

The probiotic's mode of action is based on the principle of competitive exclusion, including outcompeting undesirable bacteria in terms of nutrients and space, as well as producing potent antimicrobial metabolites

with a strong affinity for undesirable bacteria such as *Clostridium perfringens*.

As a result, the chickens gut health is supported which translates to an improved feed utilisation, thereby reducing secondary issues such as wet litter and dirty eggs. The above has been confirmed in recent work by Ceylan et al. (2022). Lohmann Brown layers were supplemented with B-Act between 25 and 45 weeks of age and compared to a control fed a standard commercial diet. Per pen the body weights, feed conversion ratios, egg masses and the ratios of cracked and dirty eggs were recorded.

Additional egg quality parameters were evaluated in four-week intervals for each pen using four representative eggs, looking at shell weight, shell thickness and shell breaking strength. Protein levels in the dry manure were recorded at the start and at the end of the experiment as well, as an indication of how well the animal was using the supplemented diets. Adding B-Act to the diet of these high-performing layers significantly improved FCR and egg mass (Fig. 1. P<0.05) as well as shell percentages. The improvements in the latter parameter could offer an explanation why almost all other eggshell qualities improved numerically as well for the probiotic group (lower percentage cracked/dirty eggs and higher shell breaking strength).

At the same time, significantly less protein was excreted in the dry manure by the B-Act group compared to the control. This can be interpreted as a better functioning of the gastrointestinal tract, thus utilising the provided nutrients from the diet as much as possible, in turn leading to the improved FCR and egg parameters.

Conclusion

From the peer-reviewed research it is clear that B-Act has a place in layer nutrition, as these high-performing animals should be supported from start to finish. With an attractive return on investment and the supporting research about its benefits in layers, B-Act offers an interesting solution to do so – combining economics with health standards in the most rewarding way.

To know more, please contact Huvepharma technical team



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Importance of Herbs in Mitigating the Impact of Heat Stress in poultry

Global warming: a serious threat

Global warming is the long-term warming of planet's overall temperature. Global warming has presented another issue called climate change. Climate change is a pressing issue that has captured the attention of the entire human race. The impact of rising global temperature is being felt across the environment, as well as among both animal and human population. This is leading to direct and indirect effects on animal performance, forage, labour and capital. One of the most significant direct impacts of higher temperature is heat stress,

which is becoming increasingly common in temperate regions where summers were previously less intense.

Heat stress:

Heat stress occurs when the animal's body heat production exceeds its capacity to dissipate the heat, resulting in an increase in body temperature. Heat stress can have significant impact on livestock health and productivity. When animals are exposed to high temperature, they begin to show signs of discomfort, such as increased respiration rates, panting and sweating. If not addressed, these symptoms can lead



to dehydration, heat exhaustion and in extreme cases, heat stroke, which can be fatal. In addition to the direct impact on animal health, heat stress can also lead to reduced productivity in livestock.

Why heat stress an important issue?

The performance of commercial poultry can also be significantly affected by elevated ambient temperatures, especially when combined with high levels of humidity, which can exacerbate the situation. The chicken's standard body temperature ranges from approximately 41-42°C, while the optimal temperature range to promote growth is considered to be between 18-21°C. Research indicates that when the environmental temperature surpass 25°C, it triggers heat stress in poultry.

Birds make several physiological changes to cope with increasing temperatures, such as panting, increasing water intake, and decreasing feed intake.

There are several ways in which heat stress can have direct impact on poultry farms profitability including:

- Higher mortality and morbidity.
- Reduction in the feed intake and weight gain.
- Increase in fat and reduction in protein content of the meat.
- Excess production of free radicals impairs the meat quality.
- Poor feed conversion ratio.
- Reduction in quality and quantity of eggs.
- Impaired caecal microbial population and gut health.
- Increased cannibalism
- Decreased diseases resistance
- Birds are more prone to respiratory disease complex

Production of reactive oxygen species (ROS) is downline for all



types of stress:

When birds experience heat stress, they produce reactive oxygen species (ROS) which can trigger and influence cellular signalling. This ROS production increases during severe heat stress and overwhelms antioxidant reserves, leading to oxidative damage to proteins, lipids, and DNA within mitochondria.

While antioxidant enzymes can neutralize ROS production during acute heat stress, chronic heat stress leads to excessive ROS generation and oxidative injury. Oxidative stress caused by heat stress can damage the intestinal mucosa, leading to reduced nutrient absorption and digestion and negatively affecting animal growth. Furthermore, high ambient temperature leads to reduction in aerobic metabolism and increased glycolysis, resulting in poor meat quality characterized by low pH and high drip loss.

That is why it is important to incorporate antioxidants that have ability to scavenge free radicals at the molecular levels. By including antioxidants, animals are able to counteract the negative effects of free radicals and promote overall health and wellbeing.

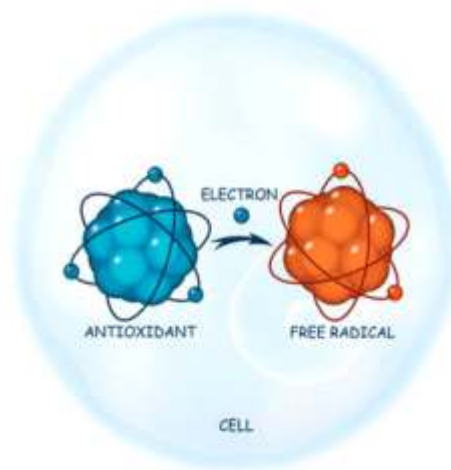
Heat stress Mitigation:

Research have proposed various strategies to mitigate the negative impacts of heat stress on poultry.

For instance, studies have looked into rearing systems that can enhance weight gain and reduce pathogen exposure of birds during heat stress. Another practical approach to improve production performance is special additive supplementation, which involves the use of additives like vitamins, minerals, probiotics and herbal products. These supplements have been found to be effective in minimizing the effects of heat stress and are frequently used in the field to combat heat stress in animals.

How do herbs provide relief from heat stress

During summers, it is crucial to supplement ascorbic acid since its synthesis decreases in stress conditions. Natural vitamin C and bioflavonoids alleviate the effect of heat stress in poultry and have





found to improve liveability, growth, feed efficiency, egg production, hatchability, meat and egg quality. These improvements appear to be linked to a reduction in stress response, as evidenced by lower levels of plasma corticosterone and adrenocorticotrophic hormone. Numerous active components found in herbs and spices have the potential to prevent lipid peroxidation through quenching of the free radicals or the activation of antioxidant enzymes such as superoxide dismutase, catalase, glutathione reductase.

Keep your animals cool with AYUCEE

Ayucee is a polyherbal formulation containing natural vitamin C & bioflavonoids which are known for their anti-oxidant and free radical scavenging activities. The beneficial properties of natural vitamin C and bioflavonoids are attributed to the constituent herbs like Phyllanthus emblica, Ocimum sanctum, Terminalia chebula and Withania somnifera. Bioflavonoids, a group of naturally occurring plant compound, primarily acts as plant pigments and antioxidants, and exhibit a wide range of biological activities, including their potent antioxidant properties. Numerous studies have demonstrated their unique role in

safeguarding vitamin C from oxidation within the body, thereby maximizing the benefits from vitamin C.

Benefits:

- Reduces mortality and losses caused due to oxidative stress
- Ensures proper growth and production in chicks, growers, layers and broiler finisher during oxidative stress
- Maintains immunity, enhances

stress threshold as well as liveability

- Prevents early chick mortality

Conclusion:

Heat stress has significant issue for the poultry industry, leading to reduced productivity, increased mortality and morbidity, and poor meat quality. Antioxidants have been shown to be effective in mitigating the negative effects of heat stress, and herbal additives containing natural vitamin C and bioflavonoids have been found to be particularly effective. The polyherbal formulation Ayucee, containing Phyllanthus emblica, Ocimum anctum, Terminalia chebula, and Withania somnifera, have been found to reduce mortality and losses due to oxidative stress, promote growth and production, maintain immunity, and enhance stress threshold in poultry. Therefore, using herbal additives can be an effective strategy to help alleviate the impact of heat stress on poultry farms, promoting the overall health and wellbeing of the birds and ultimately increasing profitability.



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Carus Laboratories Launches AmitHit - A New Ectoparasiticide Dip Concentrate Liquid



Carus Laboratories, a leading animal health company, is pleased to announce the launch of AmitHit, a new ectoparasiticide dip concentrate liquid designed to effectively kill ticks and mites in animals.

AmitHit is a powerful combination of active ingredients, Amitraz and Deltamethrin, that work together to eliminate ectoparasites in animals. The product has been enthusiastically received by the field sales team, who launched it during the annual meeting and is now available among field vets across India. Veterinarians have praised its effectiveness and affordability, making it a reliable solution to the problem of ectoparasites in animals.

Ticks and mites can pose a serious threat to the health and well-being of animals, leading to diseases and

discomfort. AmitHit aims to provide a reliable solution to this problem, with its powerful combination of active ingredients that work together to eliminate ectoparasites.

"We are excited to launch AmitHit, which is a significant addition to our animal health product line," said Dr. Deepak Kumar Dhiman, GM, Nutrition Division. "Our company is committed to providing effective and affordable solutions to the challenges faced by the veterinary industry, and AmitHit is just one example of this commitment."

AmitHit is available at an economical price, making it accessible to dairy farmers all over India. The product is now available for purchase through authorized distributors and veterinarians.



UTTARA IMPEX PVT. LTD.

ADVANCED NUTRITION LAB



UTTARA IMPEX PVT. LTD. has set-up an Advanced Nutrition Lab for the Indian poultry farmers to help them to analyse the raw material and poultry feed. The laboratory is equipped with an Advanced FT-NIR machine, Toxin Analyser and Advanced Protein Analyser.



TESTS CONDUCTED AT THE LAB

Amino Acid Profile
Apparent Metabolisable Energy [AME]
Total Phytic & Available Phosphorous [TPP]
Total & Standardised Ileal Digestible Amino Acids [TDAA]

Moisture
Crude Protein
Crude Fat
Crude Fiber
Total Ash
Sand & Silica
Total Phosphorus

Calcium
Magnesium
Salt
Soluble Protein
Urease Activity

Thiuram
Aflatoxin
Ochratoxin
T2 / HT-2 Toxin
Zearalenone

Contact Details:

Mr. Shankar Reddy: 8008802148 / Mr. Vijay Kumar: 8008101670

UTTARA IMPEX PVT. LTD.

Advanced Nutrition Lab, BSR Arcade, Door No. 4-3-109/33, Sri Sai Colony Phase II, Old Highway, Hayathnagar, Hyderabad R.R. Dist- 501505.



Glamac International Pvt Ltd **Crowned EMERGING VETERINARY** **PHARMA COMPANY OF THE YEAR** **at the Economic Times India Pharma** **World Awards 2023.**



A start-up started in 2017; it successfully positioned itself as a serious player in animal nutritional solutions for poultry & potential competitor to the historically dominated multinationals. Glamac International Pvt. Ltd, the fastest-growing Indian company in the poultry nutrition segment, added another feather to its cap by winning the “Emerging Veterinary Pharma Company of the Year” award at the 3rd Economic Times India Pharma

World Awards(ETIPWA) 2023. The glittering awards took place at the Hotel Taj Santacruz, Mumbai. In just 5 years, to be recognised as the leading “Emerging Veterinary Pharma Company of the Year” at ET Health World Summit is yet another milestone in the firm's drive to be acknowledged as one of the pre-eminent players in the competitive sphere of animal nutrition in poultry.

The award celebrated innovation and exemplary contributions in the Indian Pharmaceutical sector by exhibiting the best-in-class health, nutrition and medicine organisations. It was curated to identify individuals, teams and companies responsible for driving the pharmaceutical progression. From bioprocessing, manufacturing, packaging, and drug distribution to formulations and more, ETIPWA covered all aspects of Pharma operations.

Reflecting on the firm's achievement, Mr Abir Mukherjee, The Founder & Managing Director of Glamac, said, "We were overwhelmed when ET decided to nominate us for the award category. And we are overjoyed to have won the prestigious award. It is a testament to our clients and associates' faith in us. It wouldn't have been possible without our team, who, with their dedication and hard work, helped us gather this milestone. Our focus is continuous innovation and developing research-backed products & formulations for the world through our global relationship network. From the very first year of our existence, we made a mark in the industry with our next-generation nutritional solutions."

Glamac, a Veterinary Formulation Company, based in Mumbai(Thane, Maharashtra), is a technically driven, competent Veterinary Pharma organisation. Glamac specialises in Poultry Nutrition & Feed Supplements. The firm developed strategic sourcing channels through its strong relationship with organisations worldwide. It established dynamic business tie-ups in Europe, including marketing partnerships with Xvet Germany and Herbonis, Switzerland, a company specialising in natural solutions for Animal Nutrition.

Glamac is a pioneer in the market with their flagship product Glam-Sone, a non-antibiotic growth promoter. Other notable products of Glamac are Glam-Quindox, an AGP-best solution for E. Coli control, Cynka-Antidiarrheal range, Liptivo-XT-Nutritional Emulsifier & Glavitra-Anticoccidial range.



And recently, Glamac introduced in India the Globally renowned product Panbonis from Herbonis Switzerland - Vitamin D3 metabolites. It is a new and natural key element in animal nutrition -Initiated our drive for healthy bones & eggs of chicken.

It would not be the first time for Glamac to be awarded for its remarkable efforts in the industry. Their efforts were redeemed when the organisation was awarded the "Fastest Growing Indian Company Excellence Award" by the "International Achievers Conference" in 2019. Glamac is indeed grateful to be recognised as part of a community that's passionate about making a positive impact on the world. Being an honorary recipient of the ETIPWA award will motivate the team to strive for excellence.



Huvepharma®, a global leader in animal health has evolved its scientific direction to foray into hygiene and food safety concept in order to popularize conceptual future direction of food business. In the same context, Huvepharma® has conducted multiple hygiene & food safety seminars for Industry Technocrats across many cities like Pune, Hyderabad, and Karnal.

The safest Biosecurity & Hygiene Solutions were introduced to improve poultry production and ensure food safety!

Poultry Biosecurity is a complex system that require a range of products and services to ensure efficient functioning. To make this process easier, a Huvepharma® hygiene range of products have been designed to cover each and every step of the poultry production system – It includes products for cleaning, disinfection and water sanitization at the level of Hatchery, farm, food processing units, storage units and transportation vehicles etc. to prevent any risks of contamination. This is the perfect way to make sure that your business follows the highest hygiene standards and ensure that the poultry you're producing is safe for consumption. It also helps to reduce the cost associated with disease control, while improving overall productivity.

Huvepharma® hygiene products are developed with the latest technology to provide maximum efficiency and safety for all stages of the poultry operations. They are also designed with user-friendly features so application at farm level can be easily manageable. With this product launch, Huvepharma® aims to provide producers with an integrated solution for better biosecurity management.

Huvetech Meet 2023 was a great success with an overwhelming response in Pune, Hyderabad and Karnal. It

Let's create a safer and healthier food production for our community

provided a platform for veterinarians to exchange their ideas and experiences on hygiene-related topics. These poultry hygiene seminars were focused on importance of farm biosecurity to improve poultry production and was attended by almost all the veterinarians from the respective regions.

Technical seminars were started with welcome address by Dr. Sachin Patil & Dr. Priyanka Kamble at Pune, Karnal & Hyderabad respectively..

The events were well-received by the participants who found it to be highly informative and interactive. They were able to learn more about the importance of hygiene in animal health care as well as received tips on how to manage good hygiene practices. The event also highlighted the latest innovations in hygiene products that can help veterinarians provide better services to the farmers and producers.

Huvepharma® has launched Prophyl 75, a new Oocysticidal in India. This product is designed to help poultry farmers and producers fight against Coccidiosis, which is one of the most important diseases in poultry, generates huge economic losses. With the use of Prophyl 75 product, it will be possible to reduce the amount of time and resources that are needed for prevention and treatment of the disease. Prophyl 75 will also help to reduce the economic losses caused by Coccidiosis. This new product from Huvepharma® is expected to revolutionize the way poultry farmers deal with this protozoan parasitic infections.

During meet Mr. Jean-Charles Banglione and experts also discussed about the challenges associated with Biofilms as well as potential solution to this challenge which is Huvepharma's non foaming detergent and cleaner DT SMART® which has high degreasing power and breaks down all kind of dirt which helps in biofilm clearance that reduces bacterial contamination and helps to maintain healthy bird population by controlling disease-causing bacteria.

Technical seminars concluded by Mr. Abhijit Vaidya, Mr. G. Naveen Kumar & Mr. Sushil Kumar Bhardwaj at Pune, Hyderabad & Karnal respectively.

The speakers were felicitated for their efforts in providing valuable insights into poultry hygiene practices. It was a great opportunity for the attendees to gain firsthand experience from the experts in this field.

SPEAKERS DETAILS

Mr. Jean-Charles BAGLIONE

We have invited Mr. Jean-Charles BAGLIONE from Huvepharma® France who has vast experience in the field of poultry biosecurity. In this training program he shared his knowledge with everyone present. During this session, he explained in detail the applications of hygiene products and their importance in maintaining a safe environment for poultry. His knowledge was truly remarkable and it was evident that he had an excellent understanding of the subject matter.

Dr. M. M. Chaudhary

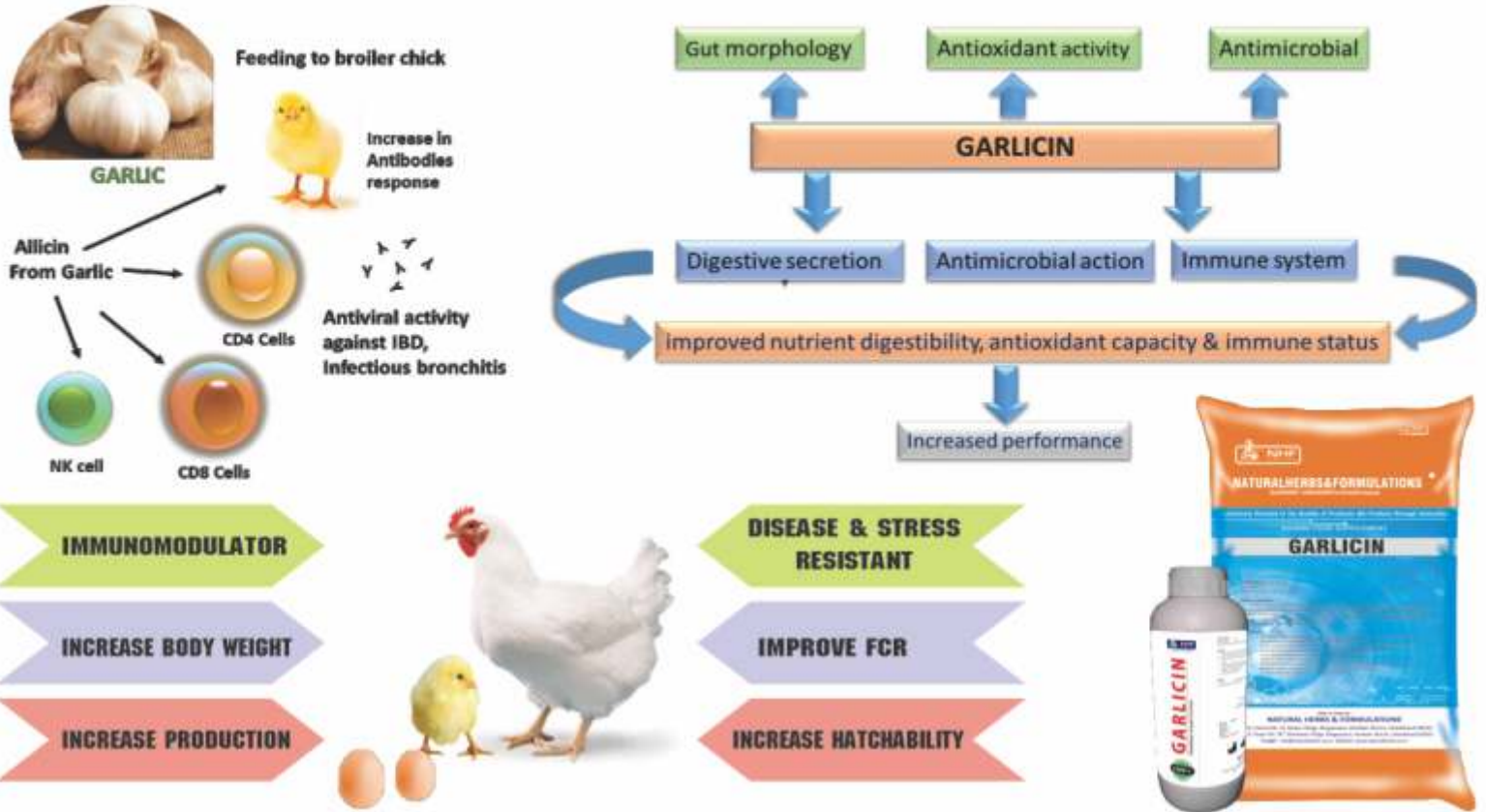
Dr. M. M. Chaudhary who has conducted a session on basics of biosecurity at farm level and he is an experienced professional in the field of animal health and poultry biosecurity. In his session, he shared his practical experience on poultry hygiene and provided valuable insights that could help others understand the complexities of the field better. It was truly an insightful experience for all attendees.

Dr. Devender Hooda

Dr. Devender Hooda, Director - Sales and Technical, Huvepharma SEA has conducted a very insightful session on 3T Differentiation for the people who attended. During the session, many questions were asked to Dr. Hooda and he provided valuable insights into how 3T Differentiation could be used to improve poultry production. The attendees were highly impressed with the knowledge and experience shared by him during the session, making it a very informative and educational experience for everyone involved.

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International Health Care Ltd (PVS Group India) successfully participated in “VIV-ASIA 2023” at Bangkok

International Health Care Ltd (PVS Group), successfully participated the VIV-ASIA at Bangkok during 8th to 10th March 2023. Dr Sessaiah Pamulapati (CMD), Mr. Arun Pamulapati (Director) and Dr Ajit Jadhav (General Manager) interacted with all visitors, existing clients and new customers in this industrial largest event. PVS Group, is one of the leading manufacturer and exporter of animal health care products for more than 30 years. The group has its own dedicated manufacturing facilities in India that include drug formulations, feed supplements, probiotics and

disinfectants. In VIV-ASIA-2023, PVS promoted its newly expanded manufacturing facilities (3,80,000 sq. ft.) to all export clients, the fully established production units are as per the international standards and it is the opportunity to all export-clients to manufacture healthcare products as per their market requirement/need with the help of company's DSIR registered R & D facility and established sources. Now PVS has global presence in around 40 countries and another 40 countries are in to the process, PVS has roadmap to explore its global presence in 80 countries in



next couple of years, also newly constructed manufacturing facilities are ready to supply as per the exports demand. Dr Seshaiyah Pamulapati -CMD of PVS group has the clear vision to be a largest manufacture and exporter in Asia in

poultry, veterinary and aqua health care industry.

During this VIV-ASIA event PVS received remarkable response, many customers, entrepreneurs, industrialists, consultants, farmers

etc. visited the stand and enquired about the products and services. It is company's consecutive participation in VIV-ASIA, it is best platform as usual to explore the export network.





BAADER Signs Partnership with RND Automation Pvt Ltd

The Indian poultry market is on the rise and along with this comes the need for processors to keep optimizing and professionalizing their plants. On 8 March 2023, BAADER signed a partnership agreement with RND Automation with the goal to enable customers to increase their production to up to 15.000 birds per hour while receiving great service to both machines from BAADER and RND Automation. Dr Norbert Engberg, Managing Director BAADER, Gero Heeschen, CSO BAADER Poultry Holding, Marcel Franz, Managing Director BAADER Asia, and Nikhil DuBois, Managing Director RND Automation signed the partnership agreement at the BAADER booth during the VIV Asia in Bangkok.

BAADER offers advanced machinery with high processing capacities and yield. RND Automation on the other hand provides great solutions for lower speed lines, excellent service, and local

know-how in processing”, says Dr Norbert Engberg, Managing Director BAADER. “We believe that we complement each other perfectly and look forward to this partnership.”

RND Automation Pvt. Limited provides poultry processing machines for processors all over India and beyond. Just like BAADER, they are a family-owned company based on the founder’s engineering expertise.

“The poultry processing market in India specifically but also all over Asia is shifting towards big processing plants. With BAADER on our side, we believe we have the right partner to help our customers upgrade their factories and shape this transformation”, says Nikhil DuBois, Managing Director RND Automation.

With this partnership, RND Automation is now able to sell BAADER poultry processing machines and equipment to the Indian market.





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Lachance Group Salon Event on "Feed Efficiency Optimization and Liver Health Technical Forum" in Bangkok



SALON EVENT

FEED EFFICIENCY OPTIMIZATION AND LIVER HEALTH TECHNICAL FORUM



On March 07, 2023, Lachance Group (Shandong Longchang Animal Health Products Co., Ltd., China), organised Salon Event "Feed Efficiency Optimization and Liver Health Technical Forum" at Hotel Richmond, Bangkok, one day before VIV Asia Exhibition. This seminar was attended by poultry, dairy and aqua industry delegates from Turkey, Egypt, Kenya, Indonesia, Australia, Malaysia, China, India besides Thailand.

Ms. Bonnie Li, General Manager of International Department, Lachance Group welcomed all the delegates and gave brief introduction about Lachance Group, the largest Bile

Acids production base. The product "RUNEON" bile acid is for the improve fat digestion and absorption and protects liver. "RUNEON" for Poultry is marketed by INTAS Pharmaceuticals Ltd., in India

During this technical forum, Professor Zhao Ruqian from China gave her presentation on "Liver Health and Homeostasis Regulation". Dr. Usama Taha, Director, Dakahlia Group from Egypt spoke on "Farm Management and Slaughter Performance". Professor Orapint Jintataporn from Thailand gave her presentation on "Trend of Aquaculture in Thailand".

Dr. Yumin Bao from Australia spoke

on "Reduced Protein Diet and Bile Acid Application in Australian Broilers", Mr. Ricky Thaper gave the presentation on "An Overview of Indian Poultry Industry". There was good interaction among Speakers and Delegates during the panel

discussions. Mr. Yongcun Xu (popularly known as Fred) and other Team members from Lachance Group extended warm hospitality to all the delegates attending this Salon Event which was followed by cultural and musical

program with drinks and dinner. All delegates appreciated Lachance Group Salon Event as it was good networking and nice to interact with delegates from different part of the World.





The International Poultry Council and Poultry Federation of India Signs Agreement to Endorse Antimicrobial Use Stewardship Principles in Bangkok, during VIV Asia.

On March 08, 2023, The International Poultry Council (IPC) at a program during VIV Asia in Bangkok, Thailand was pleased to announce eight private-sector organizations that have recognized the importance of responsible antimicrobial use and are endorsing the council's antimicrobial use stewardship principles.

These international leaders, representing over 15% percent of the global broiler production, include six associations and two companies, and together they represent a collective effort in reducing reliance on antimicrobials globally. These organizations were recognized as leaders for adopting the antimicrobial use stewardship principles and serve as an example for others that want to make a tangible impact on global health security.

1. Poultry Federation of India (PFI)
2. Brazilian Association of Animal Protein (ABPA)
3. Federación Nacional de Avicultores de Colombia (FENAVI)
4. Unione Nazionale Filiere Agroalimentari Carni e Uova (UNAITALIA)
5. Thai Broiler Processing Exporters Association (TBA)
6. Vietnam Poultry Association (VIPA)
7. DABACO Group, a Vietnam-based company
8. Kenchic Limited, a Kenya-based company

The International Poultry Council is the unified voice of the global poultry sector that represents 86% of poultry meat exports and 73% of the volume of poultry meat production. IPC works to strengthen communication between the industries of different countries, promotes a common global understanding of and confidence in poultry products, represents the global poultry sector with international organizations and agencies, shares science-based solutions and information across the whole poultry supply chain, promotes a balanced regulatory framework to support a fair global playing field and promotes, supports and encourages the sustainable development of animal production for global food security.

Poultry Federation of India, the foremost national level Organization established in the year 1988, being the voice of the Indian Poultry Industry, signed an agreement with International Poultry Council to endorse the antimicrobial use stewardship principles. On behalf of PFI, this agreement was signed by Mr. Ricky Thaper, Treasurer, Poultry Federation of India in the presence of PFI Executive members Dr. Jeetendra Verma, Dr. Dinesh Arora, & Mr. Parveen Kumar and by Mr. Robin Horel, President, and Mr. Nicolo Cinotti, Secretary General, International Poultry Council.

While addressing the gathering, Mr. Ricky Thaper told the audience that Poultry Federation of India is

constantly working and committed towards the protection, welfare and the overall growth and development of the poultry sector.

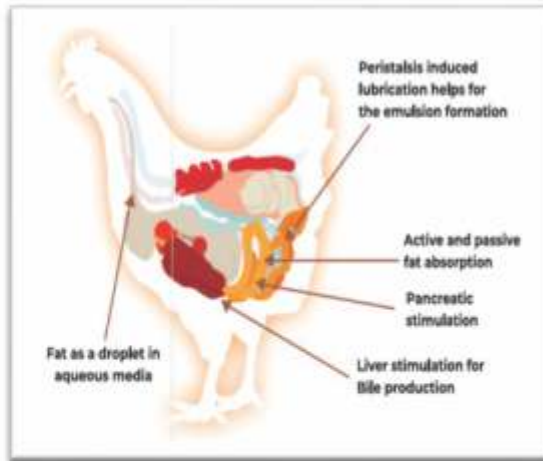
"Critical actions for addressing antimicrobial use start at the farm," said Robin Horel, President, International Poultry Council. "We commend these organizations for acknowledging the importance of intentional antimicrobial use not only for the benefit of animals, but for the impact on human health by reducing the risk of resistant pathogens spreading around the world."

"We know that human health is linked with the health of animals," said Annie Kneedler, Chief of Party for TRANSFORM. This is the latest initiative from TRANSFORM, a project created to advance market-driven animal health solutions that increase global health security and increase access to safe and affordable animal-sourced nutrition. Led by a private-sector consortium that includes Cargill, Ausvet, Heifer International and IPC, TRANSFORM aims to drive lasting, systemic change through animal health data applications, antimicrobial use stewardship and on-farm practices that support animal health and economic sustainability.

Other eminent speakers at the conference were Mr. Thanawat Tiensin, Director, FAO, Mr. Nicolo Cinotti, Secretary General, International Poultry Council, Dr. Daniel Schar, Advisor, USAID and Mr. Dennis Erpelding.

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



Zoetis Unveils the 1st Biodevice Learning Center to Support Biodevice Business Expansion in Asia Pacific



- Zoetis has opened the first learning center in Pathumthani, Thailand, to enhance customer service support through regular colleague trainings and routine device demonstrations for Zoetis customers on the Embrex® line of in ovo vaccination biodevices.
- This initiative reinforces Zoetis' commitment to continuous learning of colleagues that supports a customer-centric approach.
- Worldwide, Zoetis is the largest supplier of in ovo vaccination equipment and leads the industry in customer satisfaction¹

Pathumthani, Thailand – March 8, 2023 – Zoetis has committed to advancing animal care and humankind across a continuum of care by driving innovative growth, enhancing the customer experience, and cultivating a high-performing organization. Zoetis opens the region's first BioDevice Learning Center in Pathumthani, Thailand, to support not only its purpose and response to rising biodevice demand, but also to improve customer experience and field-service colleague competency development. Furthermore, having the Embrex Biodevice products on site allows a true touch-and-feel experience for customers who are considering adopting the technology to learn more about its features and benefits.

In addition, Zoetis has training facilities in Madrid, Spain, and Durham, North Carolina, the United States. The Zoetis learning centers enable regular service specialist training and upgrade programs, as well as customer visits for device demonstrations.

Arkhom Chewakriengkrai, Vice President of Southeast Asia and South Asia and distribution markets, states that "We have observed a noticeably expanding demand for sophisticated biodevice equipment for in ovo vaccination and service among the proprietors of hatchery businesses and those who operate hatcheries throughout Southeast Asia and South Asia. Because our colleagues are the primary force behind our company's success and are what sets us apart from



Zoetis Biodevice Learning Center APAC

from Zoetis have delivered exceptional performance and unmatched support. The introduction of automated in ovo vaccination by Embrex® in 1992 with the Inovoject® system, the world's first commercial in ovo vaccination biodevice, fundamentally changed how poultry companies approach vaccine delivery at the hatchery. Using automated in ovo vaccination with Embrex technology helps address labor challenges, improves and provides earlier immunization,² benefits bird health,² and drives hatchery efficiency when compared with competitor single needle in ovo vaccination and subcutaneous vaccine administration.²

In 2018, Zoetis released the next generation of the Inovoject® system, the Inovoject® NXT. Building on the gold standard Embrex brand, the Inovoject NXT system brings together patented loop-wire design with Haylo™ technology for gentle egg handling, Embrex Accusight™ technology for egg identification, and Embrex Precision™ technology for up to 100% injection-site accuracy³ in order to optimize the vaccination process.⁴ The Inovoject NXT system is the result of decades of

the competition in the market, we have made it a priority to contribute to the learning and advancement of our biodevice colleagues to accommodate both the expansion of our company and the ambitions they have for their professional careers. Today, we are delighted to open the first Zoetis Biodevice Learning Center in the Asia Pacific region. The purpose of this

center is to provide customers and colleagues, not limited to only biodevice teams from around the world, with the opportunity to experience our next-generation biodevice technological equipment and to leverage this learning center for the purposes of learning and development."

For over 30 years, Embrex® BioDevices



poultry health and biodevice equipment experience working with poultry producers to effectively immunize chicks and address disease challenges while advancing productivity in the challenging hatchery environment.

“Every year, Embrex® BioDevices® injects more than 20 billion eggs in over 40 countries, and this number is increasing year after year. We are pleased to provide more impactful learning opportunities to our field service colleagues on Embrex in ovo vaccination technology by establishing a learning center in the Asia Pacific region. In-person and hands-on training not only improves our colleagues' skills and capability and their comprehensive understanding of

the device, but it also reinforces our commitment to providing exceptional service to our customers.” Curtis Shuey, Vice President of Global BioDevices and Site Leader, says.

A Service and Support-based Model for Customer Success

Zoetis backs its Embrex products with best-in-class, dedicated technical support available 24 hours a day, every day, helping ensure trouble-free operations that empowers customer success. This unsurpassed and inclusive service with no hidden fees enables continuous hatchery improvement through sustained attention to best practices and utilizing science-based tools to achieve consistent results. Customers have access to subject matter experts to gain insights for

process improvement and maintain their success over time.

The team includes some of the world's foremost in ovo vaccination experts, so customers receive guidance from leaders in the field and assistance from technicians who support through:

- Site inspection to determine the hatchery readiness status
- Device installation, initial start-up, and hatchery staff training for operation
- Maintenance, emergency service, process evaluations, and spare parts

Zoetis continues to be recognized for its service, equipment and technology of the Embrex portfolio and has earned a higher satisfaction rating compared to any other supplier.¹

1 International and US NPS Score Surveys, 2022

2 Barbosa T, Williams C, Villalobos T. Efficacy and Marek's disease protection comparison between different vaccination methods, in Proceedings. 18th Congress World Veterinary Poultry Association 2013;217.

3 Data on file, Study Report Nos. 02-18-70R7D PS-5802CDI SR, 02-18-70R7D PS-5802B SR, 02-18-70R7D PS-5802C SR, 02-18-70R7D PS-5802CD SR, 02-18-70R7D PS-5802D SR and 02-18-70R7D PS-5802I SR, Zoetis Inc.

4 Data on file, Study Report No. 05-18-70R7D, Zoetis Inc.

About Zoetis

As the world's leading animal health company, Zoetis is driven by a singular purpose: to nurture our world and humankind by advancing care for animals. After innovating ways to predict, prevent, detect, and treat animal illness for more than 70 years, Zoetis continues to stand by those raising and caring for animals worldwide – from veterinarians and pet owners to livestock farmers and ranchers. The company's leading portfolio and pipeline of medicines, vaccines, diagnostics and technologies make 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



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VetDose **Prime**
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(BMS)



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Life as a Backyard Poultry Farmer in Rural Haryana



Ram Kumar's house, located in the heart of rural Haryana, appears to be in a state of constant disrepair. The dilapidated structure is held together by a combination of bamboo and scrap metal, and the roof leaks profusely during the monsoon season. Despite these physical challenges, Ram manages to make a living through his small-scale poultry farming operation, which has become an essential source of income for him and his family.

Despite the challenges he faces as a backyard poultry farmer, Ram Kumar remains optimistic about the future. He takes pride in his work and the quality of his products, and is determined to continue providing for his family through his business. His dedication to his craft and his willingness to adapt to changing market conditions are a testament to the resilience and

resourcefulness of small-scale farmers in rural India. By supporting local farmers like Ram Kumar, we can help to strengthen rural economies and promote sustainable agriculture practices that benefit both producers and consumers.

After he welcomed me to his humble adobe warmly, we began to talk.

How did you first get into raising chickens?

I come from a family of farmers, and we have always kept a few chickens around for their eggs and meat. But it wasn't until about 12 years ago that I decided to get serious about it and start raising them as a business. I started with just a few birds and have gradually expanded my flock over the years.

What kind of chickens do you raise?

I primarily raise desi chickens. They

are smaller and less productive than some of the imported breeds, but they are hardy and well-suited to our local climate. I also keep a few broiler chickens, which grow very quickly and are good for meat production.

How do you take care of your chickens?

I make sure they have access to clean water and plenty of nutritious feed. I also keep their living space clean and well-ventilated to prevent disease. I have learned a lot about chicken health over the years and can usually tell when one of my birds is sick and needs medical attention.

What challenges have you faced as a backyard poultry farmer?

One of the biggest challenges is finding a market for my products. There is a lot of competition from larger poultry farms, and it can be difficult to get my chickens to market. I also have to deal with occasional outbreaks of diseases like bird flu, which can be devastating to my flock.

How has the poultry industry changed during your time as a farmer?

When I first started, there were very few regulations on the industry and it was much easier to get started. But now, there are a lot more rules and regulations in place, which can be a good thing for public health and safety. However, it can also be a burden for small farmers like myself who may not have the resources to comply with all the regulations.



What advice would you give to someone who is interested in starting a backyard poultry farm?

I would say that it's important to start small and learn as much as you can about raising chickens before you try to make it a

business. It's also important to find a niche market for your products and to build relationships with customers who will be loyal to your brand. And finally, be prepared to work hard and be patient - raising chickens is not an easy job, but it can be very

rewarding if you are willing to put in the effort.

What are the biggest challenges you face while raising poultry?

The biggest challenge I face while raising poultry is the lack of access to quality feed and clean water for my birds. It is also difficult to keep them safe from predators like foxes and eagles that often attack our flocks.

Have you faced any issues with disease outbreaks among your birds? How have you dealt with it?

Yes, I have faced several issues with disease outbreaks among my birds. I try to prevent them by vaccinating my birds regularly and maintaining strict biosecurity measures on my farm. However, sometimes despite our best efforts, disease outbreaks occur, and in such cases, I seek the advice of doctor (veterinarian) to contain the spread of the disease and prevent further losses.



How do you manage to transport your products to the market? Are there any logistical challenges?

Transportation of my products to the market was a big challenge as I had to rely on local transporters who charge exorbitant rates. This often ate into my profits. Moreover, the lack of proper storage facilities during transit sometimes leads to spoilage of my products. But that a few years, I have a friend who does this for me for a fair price.

Are there any government schemes or support systems in place or small-scale poultry farmers like to yourself? If not, what kind of assistance do you think would be helpful?

Currently, I do not much about. But if there is an outbreak of a flu, we sometimes receive vaccinations from the local doctor (veterinarian). There are very few government schemes or support systems in place for small-

scale poultry farmers like me. However, I feel that government assistance in terms of access to quality feed and vaccines and proper training in poultry farming practices would be extremely helpful.

How do you manage to maintain the quality of your products, especially in the face of competition from larger commercial farms?

To maintain the quality of my products, I follow strict hygiene practices and ensure that my birds have access to clean water and feed. Additionally, I maintain records of all my farming practices, which helps me identify areas where I need to improve and make necessary changes.

How to you maintain records?
(chuckles) I use a pothi (notebook).

Do you have any plans to expand?

Yes, I have plans to expand my

business. However, this requires a lot of investment, and I am currently exploring various options for funding and support.

After speaking with Ram Kumar, it's clear that backyard poultry farming in rural Haryana comes with its own set of unique challenges. Disease outbreaks and logistical difficulties are just a few of the obstacles that farmers like him face on a daily basis. However, his passion for his work and commitment to producing high-quality products are admirable. It's also worth noting that there is a lack of government support for small-scale farmers like Ram Kumar, which could hinder the growth and success of their businesses. Overall, it's important to recognize and appreciate the hard work and dedication of individuals like Ram Kumar who are working to provide for their families and contribute to the local economy.



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Prices of March 2023

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	31	Average			
NECC SUGGESTED EGG PRICES																																			
Ahmedabad	440	445	445	445	445	450	445	448	450	453	455	455	460	463	463	463	463	463	463	463	463	463	463	463	463	463	463	463	450	450	450	455.58			
Ajmer	400	390	390	385	385	385	390	395	405	409	409	409	411	414	414	414	400	400	404	406	410	415	415	415	417	418	418	410	400	395	400	404.13			
Barwala	395	395	395	390	390	390	383	386	394	401	401	401	403	406	408	408	392	392	394	394	397	401	405	407	410	412	412	405	395	395	399	397.61			
Bengaluru (CC)	440	440	440	440	445	445	445	445	450	455	455	455	465	470	475	475	475	475	475	475	475	475	475	475	475	475	460	460	460	450	435	435	458.55		
Brahmapur (OD)	439	439	439	441	441	441	441	441	444	444	444	444	444	451	454	456	456	456	456	456	456	456	456	456	456	456	466	441	441	441	431	421	423	445.32	
Chennai (CC)	465	465	465	465	465	465	465	465	465	465	465	465	465	480	480	480	480	480	480	480	480	480	480	480	480	480	480	465	465	465	465	465	465	470.81	
Chittoor	458	458	458	458	458	458	458	458	458	458	458	458	458	473	473	473	473	473	473	473	473	473	473	473	473	473	473	458	458	458	458	458	458	463.81	
Delhi (CC)	415	415	415	415	400	400	400	400	405	415	421	421	421	421	425	425	425	410	410	410	413	415	419	419	421	425	428	428	424	415	415	415.84			
E.Godavari	415	415	415	417	417	417	417	417	420	423	423	426	426	431	436	438	438	438	438	438	438	438	438	438	438	438	438	425	425	415	405	408	426.16		
Hospet	400	400	400	400	405	405	405	405	410	415	415	415	425	430	435	435	435	435	435	435	435	435	435	435	435	435	435	420	420	420	410	395	395	418.55	
Hyderabad	390	390	390	390	390	395	400	405	410	415	420	425	430	435	435	435	425	425	425	425	425	425	425	425	425	425	410	410	410	390	390	390	411.29		
Jabalpur	414	414	414	414	414	414	417	420	423	426	429	440	443	446	448	448	448	448	448	435	435	440	442	447	447	447	437	437	437	437	415	415	431.97		
Kolkata (WB)	470	475	480	483	483	483	483	483	486	486	486	486	492	500	504	507	507	507	507	507	507	507	507	507	507	507	507	490	490	490	470	460	460	490.65	
Ludhiana	395	395	395	383	383	381	381	384	387	385	401	401	401	403	403	403	391	381	391	391	395	401	405	405	407	409	411	411	411	404	394	397.42			
Mumbai (CC)	445	450	450	450	450	450	455	460	465	470	475	480	485	490	495	495	495	485	485	485	485	485	485	485	485	485	485	485	470	470	470	460	460	460	471.94
Mysuru	442	442	442	442	445	445	445	445	450	457	457	457	468	473	480	480	480	480	480	480	480	480	480	480	480	480	480	462	462	462	450	440	440	461.48	
Namakkal	440	440	440	440	440	440	440	440	440	440	445	445	455	455	455	460	460	460	460	460	460	460	460	460	460	460	460	450	450	450	450	450	450	449.84	
Pune	450	452	452	452	455	455	460	465	470	475	480	485	490	495	495	495	495	495	495	490	485	485	485	485	485	485	485	485	480	470	470	450	450	450	473.74
Raipur	417	425	425	425	425	425	425	425	425	435	440	440	440	440	440	440	440	430	430	430	430	430	430	430	430	430	430	430	430	430	415	405	429.42		
Surat	445	450	450	450	450	455	455	455	455	460	465	465	470	475	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	480	470	470	470	468.71
Vijayawada	415	415	415	417	417	417	417	417	420	423	423	426	426	431	436	438	438	438	438	438	438	438	438	438	438	438	438	438	425	425	415	405	408	426.16	
Vizag	415	415	415	420	420	420	420	420	425	430	430	436	435	440	445	450	450	450	450	450	450	450	450	450	450	450	450	450	450	450	430	420	420	435.65	
W.Godavari	415	415	415	417	417	417	417	417	420	423	423	426	426	431	436	438	438	438	438	438	438	438	438	438	438	438	438	438	425	425	415	405	408	426.16	
Warangal	392	392	392	392	392	397	402	407	412	417	422	427	432	437	437	437	427	427	427	427	427	427	427	427	427	427	427	412	412	392	392	392	397	413.29	
Prevailing Prices																																			
Allahabad (CC)	448	448	443	443	443	443	448	448	452	457	462	462	462	467	467	467	467	467	467	467	467	467	467	467	467	467	467	467	462	448	452	458.26			
Bhopal	415	415	415	415	415	415	415	415	415	425	428	440	440	450	450	450	450	450	450	450	440	450	445	445	445	435	435	435	435	435	435	435	435	433.97	
Indore (CC)	420	415	415	415	415	415	415	420	430	430	435	435	435	440	440	440	425	425	425	425	435	435	440	440	440	440	440	440	425	420	425	428.87			
Kanpur (CC)	443	443	443	443	443	443	443	443	452	452	452	452	443	443	452	452	452	452	452	452	452	452	452	452	452	452	452	452	452	438	438	438	447.74		
Laknow (CC)	470	470	470	470	470	470	470	470	470	470	470	470	470	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	471.74
Muzaffarpur (CC)	460	455	455	455	450	445	451	451	458	465	465	465	465	470	472	472	472	462	465	468	472	478	480	480	480	482	485	485	485	473	460	460	466.48		
Nagpur	424	420	420	420	420	420	420	420	435	435	455	455	455	465	465	465	465	465	465	450	450	450	450	450	450	450	440	440	440	420	420	420	440.94		
Patna	460	455	455	455	450	445	451	451	458	465	465	465	465	470	472	472	472	462	465	467	472	478	480	480	480	482	485	485	485	473	460	460	466.45		
Ranchi (CC)	443	443	448	448	448	448	448	443	452	457	462	462	462	472	481	481	481	481	481	481	481	481	481	481	481	481	481	481	481	471	467	467	467.39		
Varanasi (CC)	457	443	443	443	443	443	443	443	457	457	457	457	457	467	473	473	473	460	460	460	460	463	467	467	467	467	467	460	453	453	457	457.74			

Editorial Calendar 2023

Publishing Month:
January
Article Deadline :
30th, Dec. 2022
Advertising Deadline :
3rd, Jan. 2023
Focus :
Winter Disease Management

Publishing Month:
February
Article Deadline :
30th, Jan. 2023
Advertising Deadline :
3rd, Feb. 2023
Focus :
Health & Nutrition Management

Publishing Month:
March
Article Deadline :
28th, Feb. 2023
Advertising Deadline :
3rd, March 2023
Focus :
Vaccination & Immunization

Publishing Month:
April
Article Deadline :
30th, March 2023
Advertising Deadline :
3rd, April 2023
Focus :
Summer Management

Publishing Month:
May
Article Deadline :
30th, April 2023
Advertising Deadline :
3rd, May 2023
Focus :
Cold Chain Management

Publishing Month:
June
Article Deadline :
30th, May 2023
Advertising Deadline :
3rd, June 2023
Focus :
Feed Production

Publishing Month:
July
Article Deadline :
30th, June 2023
Advertising Deadline :
3rd, July 2023
Focus :
Layer Farming

Publishing Month:
August
Article Deadline :
30th, July 2023
Advertising Deadline :
3rd, August 2023
Focus :
Genetics & Breeding

Publishing Month:
September
Article Deadline :
30th, August 2023
Advertising Deadline :
3rd, September 2023
Focus :
Biosecurity Practices

Publishing Month:
October
Article Deadline :
30th, September 2023
Advertising Deadline :
3rd, October 2023
Focus :
Winter Breeding Management

Publishing Month:
November
Article Deadline :
30th, October 2023
Advertising Deadline :
3rd, November 2023
Focus :
Environment Control

Publishing Month:
December
Article Deadline :
30th, November 2023
Advertising Deadline :
3rd, December 2023
Focus :
Industry Outlook

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