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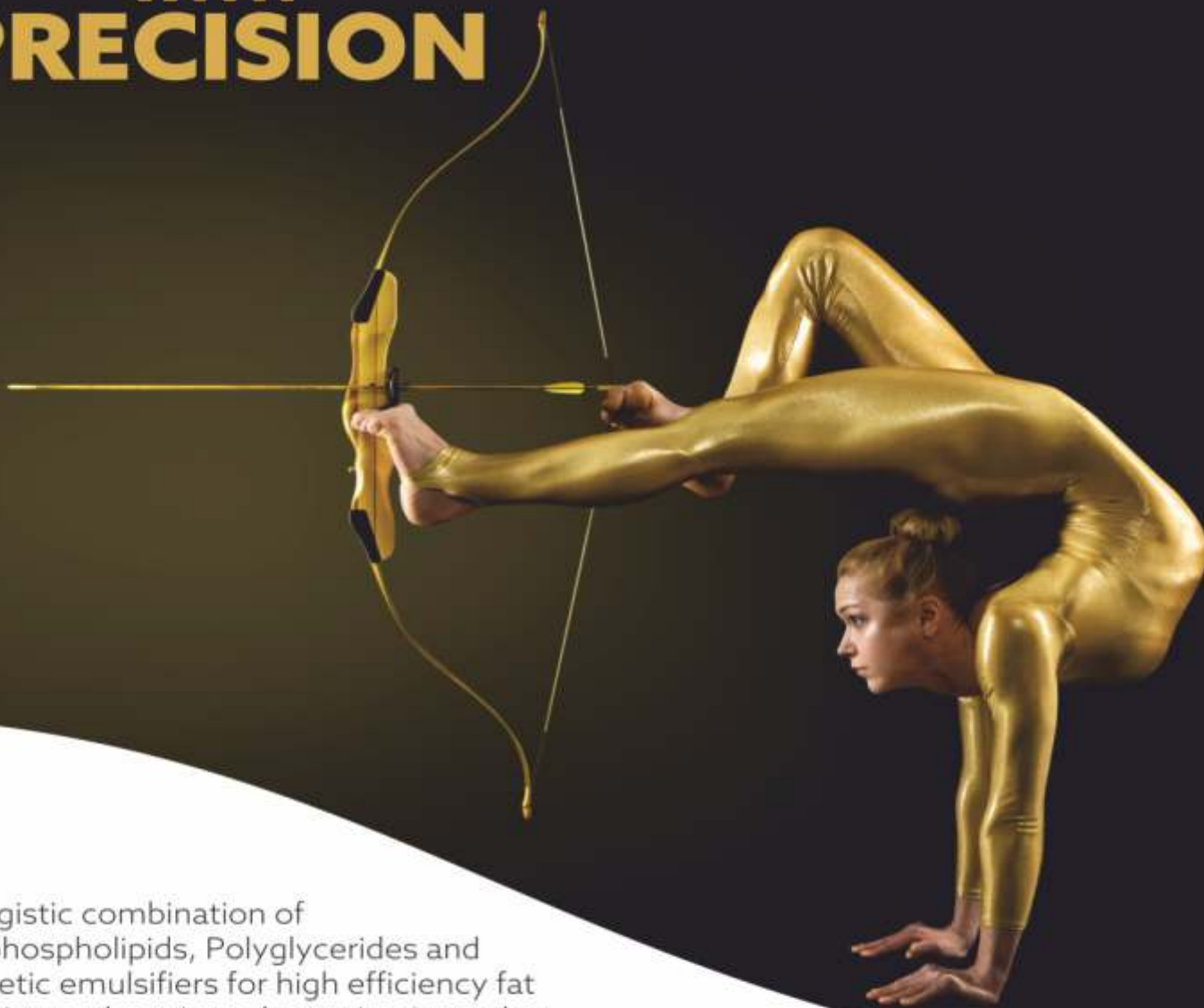
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# From the Editor's Desk

## Layer Farming in India: Opportunities and Challenges for a Sustainable Future



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Layer farming in India is expected to experience significant growth in the near future due to increasing demand, government support, technological advancements, and emerging market trends. However, the industry faces several challenges that need to be addressed for long-term sustainability.

The rising demand for eggs in India is driven by factors such as population growth, rising disposable incomes, and growing awareness of the nutritional benefits of eggs. This presents a significant opportunity for layer farmers to expand their production and meet the evolving market demand. The Indian government has implemented various initiatives to support the poultry industry, including layer farming, providing financial assistance, training, and infrastructure development support to farmers.

Advanced technologies in layer farming have the potential to enhance productivity, efficiency, and profitability. Automation systems for feeding, watering, and environmental control can streamline operations and reduce labor requirements. Precision nutrition and data-driven management practices can optimize feed efficiency and improve flock performance. Embracing these technological advancements can help Indian layer farmers stay competitive in the evolving market landscape.

The rising demand for organic and specialty eggs presents another opportunity for layer farmers in India. Health-conscious consumers are increasingly seeking organic and specialty eggs, creating a niche market that commands higher prices. By adopting organic production methods, prioritizing bird welfare, and adhering to certification standards, layer farmers can cater to this market segment and gain a competitive advantage.

India's potential to become a major player in the global egg export market is a significant opportunity for layer farmers. The government's emphasis on improving poultry health, biosecurity, and quality standards facilitates Indian farmers in meeting international requirements and exploring export opportunities.

Challenges for layer farming in India include disease control, the availability and affordability of high-quality feed, sustainability, market volatility, and skilled labor scarcity. Disease detection and effective management are key to the long-term viability of layer farming in India. Farmers must diversify their product offerings, invest in branding and marketing, and stay abreast of market trends to effectively navigate these challenges.

In conclusion, layer farming in India presents significant opportunities for growth and prosperity, but challenges such as disease control, feed availability and cost, environmental sustainability, market volatility, and skilled labor scarcity need to be addressed for long-term sustainability. By implementing strict biosecurity measures, promoting sustainable feed sources, adhering to environmentally-friendly practices, staying agile in the market, and investing in training and skill development, the industry can thrive and contribute to the agricultural sector's growth and development.

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- Unpublished material of industrial interest, not submitted elsewhere, is invited.
- The submitted material will not be returned.
- Publisher, Printer Mr. Vishal Rai Gupta on behalf of Pixie Publication. Printed at Jaiswal Printing Press, Chaura Bazar, Karnal-132001 (Haryana).
- Published at : Anand Vihar, near gogripur railway crossing, hansi road, karnal-132001 (Haryana)
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# A Way of Scientific Layer Farming In India and Its National Importance



**Jai Prakash<sup>1</sup> and B.I. Saini<sup>2</sup>**

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## Introduction

In the last few decades, poultry industry has shown a tremendous growth all over the world. Poultry egg and meat are important sources of high-quality proteins, minerals and vitamins to balance the human diet. Commercial layer strains are now available with traits of high egg production and high feed conversion efficiency. Superior germplasm of chicken has been developed by both public and private sectors which met the requirement of Indian Poultry Industry. Depending on the farm-size, layer (for eggs) farming can be main source of family income or can provide income and gainful employment to farmers throughout the year on the other hand poultry manure has high manure value and can be used for increasing yield of all crops.

## Scope for Layer farming and its National Importance

Poultry is one of the fastest growing segments of the agricultural sector in India today. India has emerged on the world map as the 3rd largest egg producer (56 billion eggs) and in current total poultry in the country is 851.81 million in 2019, increased by 16.8% over previous Census. The total Backyard Poultry in the country is 317.07 million in 2019, increased by 45.8% over previous Census and the total Commercial Poultry in the country is 534.74 million in 2019, increased by 4.5% over previous Census. The annual per capita availability of eggs has increased from 7 eggs in 1961 to 95 eggs in 2021- 2022. However, the present availability is far below the ICMR recommendation of 180 eggs per capita per annum. In the poultry industry, value added products utilizing poultry eggs, culled birds for human consumption have been developed. India exports most of its white shell egg

to Oman, Maldives and Qatar and is the largest exporter of white shell egg in the World.

This transformation has involved sizable investments in breeding, hatching, rearing and processing. The poultry sector in India has undergone a paradigm shift in structure and operation. High quality chicks, equipment, vaccines, and medicines are now available through both public and private players. Technically and professionally competent guidance is available to the farmers. The managerial practices have improved and disease and mortality incidences are reduced to a great extent. The industry has grown largely due to the initiative of private enterprises, government intervention, and considerable indigenous poultry genetic capabilities and adequate support from the complementary veterinary health, poultry feed, poultry equipment and poultry processing sectors. Farmers in India have moved from rearing non-descript birds to rearing hybrids which ensures faster growth, good liveability, excellent feed conversion, high egg production and profits to the rearers.

For commercial egg production, layer poultry farming (raising egg-laying poultry birds) is considered. Layer chickens are a particular species of hens which need to be raised from day old and they start laying eggs commercially from 18-20 weeks of age. They remain to lay eggs continuously till 70-72 weeks of age. They can produce about one kg of eggs by consuming about approx. 2.25 kg of feed during their egg-laying period. To produce hybrid eggs layer, consider the various characteristics of cock and hen before breeding. Different types of highly egg-productive layer breeds are available

worldwide including India.

### Commercial Layer Breeds

According to the nature and colour of the egg, layer chickens are of two types -

- 1. White Egg Laying chickens** - This type of hen is comparatively smaller and relatively consume less feed. The eggshell colour of these hens is white. Examples are Lohman White, BV-300, Sever White, Hi line, Havard White, White, Bevan's White etc.
- 2. Brown Egg Laying chickens** - Brown egg-laying hens are relatively larger body size. They consume more feed than white egg layers and lay bigger size eggs than other laying breeds. The eggshell colour is brown. There are many types of brown layers available among those, Isa Brown, Hi Sex Brown, sever 579, Lehman Brown, Hi Line Brown, BV-380, Gold Line, Havard Brown etc. are very suitable for commercial layer poultry farming.

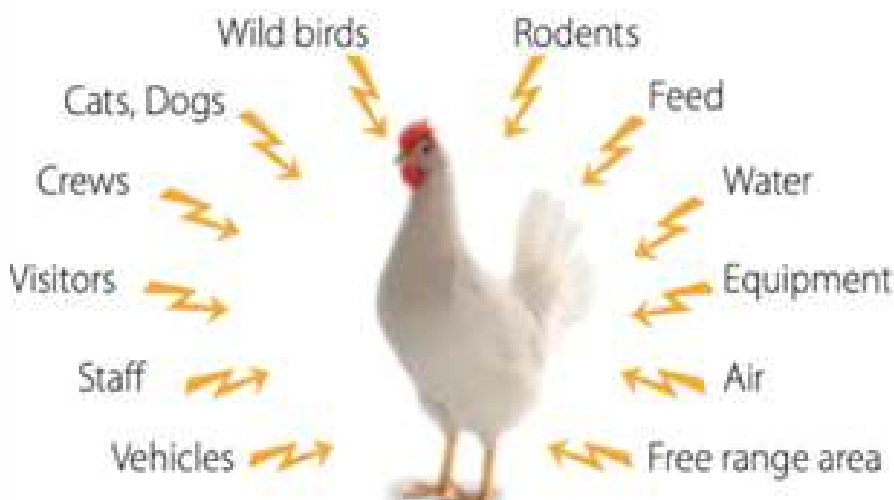
### Layer Hen Selection

Before selecting the layer hens for your poultry farming business, you must remember some essential information. First, you must choose breeds suitable for your layer poultry farming business and can produce well in your area. Then, read below to select the appropriate species for your business. For commercial egg production, must choose highly productive laying hens correctly. All types of hens do not produce an equal number of eggs. The chosen breeds must have to have good production capability. If chosen breed contains the desired characteristic and has a reputation for egg production, that breed is suitable for business. Always purchase healthy chicks from a famous and popular hatchery. Before purchasing see their reputation in that area.

### Biosecurity at layer farm

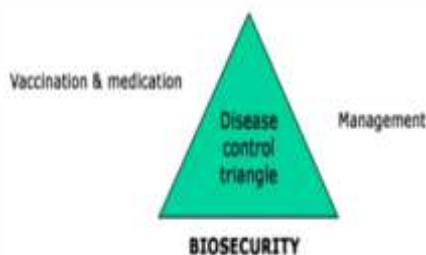
Biosecurity, medication/vaccination, and good management of farm are three sides of disease control triangle. To maintain a flock (birds) free of pathogens (diseases), biosecurity is the key element in the triangle of disease control.

- Proper decontamination and



disinfection of equipment, houses etc. In small scale egg production unit, follow all-in-all-out system. If it is not possible, pullets should be obtained from a source free of vertically transmitted diseases.

- Routine disease monitoring procedures like post-mortem examination and periodic serum antibody assay to determine immune status of the flock.



- Regular culling of unhealthy, unproductive and diseased birds.

### Vaccination and its Importance for Layer Poultry Farming

The vaccination program is necessary

for chicks to keep them free from all types of diseases. The main advantage of poultry vaccination is given below.

- Timely vaccination makes disease resistance power in the body of a chick.
- Help to keep the hen free from infective poultry diseases.
- Disease prevalence will be less, and the mortality rate will reduce i.e. low mortality rate = more production = more profit.
- There are many types of poultry vaccines available for layer hens like Marek's, Ranikhet, Gumboro, Infectious bronchitis, Fowl pox, Coryza etc. are used for layer chickens.

### Precaution taken during vaccination of Layer

1. Hold the chickens very carefully.
2. There is no need to vaccinate the ill hen.
3. Wash the vaccination equipment



with a proper water solution.

4. Do the vaccination program in cold weather conditions.
5. A preventive vaccine is always applicable to a healthy bird.
6. Never vaccinate an infected bird.

#### Proper nutrition

- A good balanced feed prepared according to nutrient requirements at different ages will ensure proper health and good immune status in birds.
- Addition of coccidiostats, and vitamin and mineral supplements are essential.

#### Egg Production for Layer Poultry Farming

Egg production from a Layer Poultry Farming depends on the care and farm management. If you take good care of your birds and manage them properly, the production and profit will be high.

- Within the first 20 weeks of age, about 5% of hens start laying eggs.
- About 10% of birds start laying at 21 weeks of age.
- When they reach 26 to 30 weeks of age, they produce highly. Although,



it may be different depending on their strain.

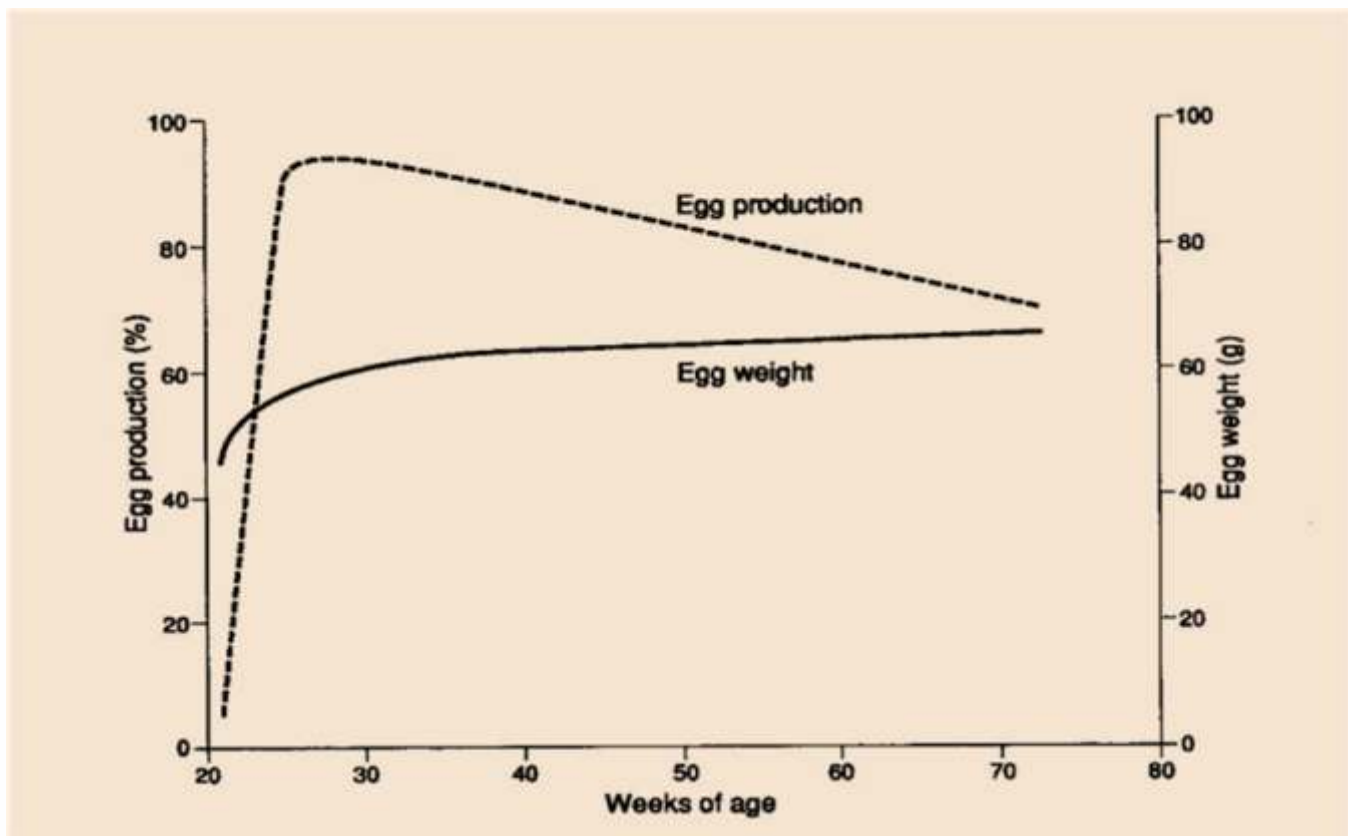
- After laying a maximum number of eggs, they usually stop laying for a few days.
- And after this period, their egg production might reduce slowly.
- The egg-laying rate and size of eggs increase gradually.
- The hens grow till 40 weeks of age.
- The weight and size of eggs increase till 50 weeks of age.

#### Conclusion

Poultry farming carries several benefits over other agricultural business. It is a

very profitable enterprise, and you can opt this business for egg production which can give continuous income and also help in employment generation. It can be in the form of part-time or full-time employment by setting up of your own farm or serving in some farms. Thus, a layer farming can be profitable business and some important benefits are as follows:

- Producing nutritious egg to human beings.
- Anyone can be opted for part time or full employment.
- Generating continuous income.
- Relatively requiring less investment.



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# Eggcellent Management: Optimizing Quail Productivity for Egg Production

Priyanka M. Kittur<sup>1\*</sup>, Apeksha Ukey<sup>1</sup>, Anish Koul<sup>2</sup>  
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Quail farming has gained significant popularity in recent years due to its numerous advantages, including efficient land utilization, low investment costs, and high-profit potential. In addition to the economic and practical advantages, the quail layer system contributes to sustainable farming practices. By utilizing vertical space and minimizing land usage, it helps conserve natural resources and protects the environment. Quail farming also produces lower greenhouse gas emissions compared to other livestock industries, making it an environmentally friendly choice for egg production. When it comes to quail farming, the primary focus for many farmers is the production of eggs. Quails are known for their prolific egg-laying abilities, and with the right management strategies, you can maximize their egg production. Keeping quail is a favoured choice due to the delicious nature of their eggs.

Similar to chickens, female quails have the ability to lay eggs without the presence of a male counterpart, eliminating the necessity of keeping one unless the intention is to breed quail. On average, quail eggs weigh a mere 12 grams, in contrast to approximately 60 grams for a hen's egg. These eggs are commonly relished when hard-boiled and added to salads, offering a delightful bite-sized

portion.

Quails generally reach the laying stage at around 8 to 12 weeks old. During their first year or so of laying, they tend to be quite prolific, while their natural lifespan ranges from two to four years. Despite their small size, quail eggs have a rich yolk-to-white ratio, making them not only a delicious treat but also suitable for pickling and various recipes that call for eggs. In this article, we will explore essential management practices that will help you optimize egg production in your quail farm.

## 1. Selecting the Right Quail Breed

Choosing the appropriate quail breed is crucial for maximizing egg production. Some popular breeds known for their high egg-laying capabilities include the Coturnix (Japanese) quail and the Bobwhite quail. These breeds have been selectively bred over the years to enhance their egg production potential. Ensure you acquire healthy birds from reputable breeders to establish a strong foundation for your flock.

## 2. Optimal Housing Conditions

Quail, belonging to the pheasant family, have a preference for living in close proximity to the ground, which means they do not utilize elevated houses with high



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ramps. While they do not require perches or nest boxes within their housing, these timid birds appreciate the presence of branches and objects like small logs to provide cover in their enclosure.

Creating a suitable housing environment is essential for promoting egg production in quails. To promote optimal egg laying, it is beneficial to provide quails with a serene and peaceful environment, free from disruptive noises. Additionally, it is crucial to keep pet cats and dogs at a safe distance from the quails, even if they are physically unable to reach them. The mere presence of potential predators can cause distress to the quails, potentially affecting their laying performance. Consider the following factors for better management and production:

- a) **Space:** Provide enough space to allow for natural movement and minimize stress. Ensure that each quail is provided with a minimum of 1 square foot (0.093 square meters) of floor space. Sufficient floor space is crucial for quails to avoid feeling confined and stressed, as stressed quails are less likely to lay eggs. To enhance the floor space available for each quail, consider expanding the size of their cage or allowing them to freely roam for a portion of the day.
- b) **Ventilation:** Proper ventilation is crucial for maintaining optimal air quality and temperature control. Good ventilation prevents the build-up of harmful gases and reduces the risk of respiratory diseases. Proper ventilation is of utmost importance in quail housing due to their higher

production of ammonia compared to other poultry. When temperatures drop, they will require additional protection, but with the provision of artificial lighting, they can continue to lay eggs throughout the winter season.

- c) **Lighting:** The Coturnix quail, also known as the Japanese quail (depicted on the right), is highly favoured and known for its exceptional productivity. In their natural habitat, they typically lay two to three clutches per year, with each clutch containing approximately a dozen eggs. However, in captivity, without any specific breeding selection, they can lay over 230 eggs or even more if provided with sufficient lighting. Some Coturnix quails have been documented laying an impressive 300 eggs within a year, surpassing the egg-laying capabilities of most chickens.

To ensure continuous egg production during the winter season, when daylight hours are reduced, quails will require artificial lighting. They need to be exposed to 14 to 16 hours of light each day to stimulate egg production. Use artificial lighting to supplement natural daylight during winter months when daylight hours are shorter. It is advisable to gradually decrease light levels in the morning instead of abruptly plunging them into darkness when the timer switches off at night. Similar to chickens, artificial lighting for quails applies the same principles needed for egg production.

- d) **Nesting Boxes:** Provide well-designed nesting boxes filled with clean, dry bedding material to create a comfortable and secure space for the quails to

lay their eggs. Add hay or straw to the quail cage, allowing them to utilize it for nest-building purposes. Nesting behaviours may vary among individual quails as some quails may lay eggs directly on the ground, others prefer having a nest. Supplying nest-building materials assists those quails that prefer to construct a nest for laying eggs. Although cleaning the cage is typically required every 1-2 weeks, it is essential to ensure that the quails have daily access to fresh food and water.

### 3. Balanced Nutrition

To achieve high egg production (the capability to lay up to 300 eggs per year), it is essential to provide them with appropriate quail feed. A balanced diet plays a vital role in egg production. Quails require a high-quality feed that is rich in protein and essential nutrients. Consult a poultry nutritionist to formulate a feed that meets the specific requirements of your quail breed. Proper nutrition will not only enhance egg production but also improve the overall health and vitality of your quails. Additionally, it is crucial to ensure that quails have constant access to clean and fresh water at all times. Ensure a steady supply of fresh, clean water at all times.

Quails have a tendency to flick the mix on the floor while searching for their preferred seeds within the blend. Quails are not prone to overeating, so they can be fed ad-lib, similar to other poultry. When feeding them with a quail seed/pellet mix, it is recommended to use a hopper equipped with "anti-spill fingers" to prevent wastage.

# Maximize the bioavailability of choline and biotin from feed



## RECOMMENDATIONS >>

- >> For providing optimum activity of choline and biotin required for optimum health and production
- >> For controlling Fatty Liver Syndrome, Perosis & Liver enlargement
- >> For maintaining growth, FCR, egg production, hatchability and livability in birds

## USAGE >>

- >> 500 gm/tonne of feed

(To replace 1 kg of synthetic choline chloride 60% and 150 mg of Biotin) or as recommended by the nutritionist

## PACK & PRESENTATION >>

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<b>Nutrient requirements of domestic quails under tropical conditions</b>			
<b>Nutrients</b>	<b>Age of Quails</b>		
	<b>0-2 Weeks</b>	<b>3-5 Weeks</b>	<b>&gt; 6 weeks</b>
Metabolizable Energy (Kcal/kg)	2750	2700	2650
Protein (%)	24	20	19
<b>Minerals</b>			
Calcium (%)	0.8	0.6	3.0
Phosphorus (%)	0.3	0.3	0.45
<b>Vitamins</b>			
Vitamins A (IU)	8000	8000	8000
Vitamin D3(ICU)	1200	1200	1200
Riboflavin, (mg)	6	6	6
<b>Amino acids</b>			
Lysine (%)	1.20	1.10	0.80
Methionine (%)	0.45	0.40	0.33
Methionine + Cystine %	0.70	0.65	0.60

#### 4. Disease Prevention and Biosecurity

Maintaining a strict biosecurity protocol is crucial to prevent the outbreak of diseases that can hamper egg production. Implement the following practices: Consult with a veterinarian to develop a vaccination program suitable for your quails, protecting them

from common diseases such as coccidiosis and Newcastle disease. Maintain a clean and hygienic environment by regularly cleaning and disinfecting the housing, feeding, and drinking areas. Quarantine new birds before introducing them to the main flock to minimize the risk of disease transmission. Regularly

monitor your quails for signs of illness and promptly isolate and treat affected individuals.

#### 5. Record Keeping and Analysis

Maintaining detailed records of egg production, feed consumption, and other relevant data will provide valuable insights into the performance of your quail flock. Analyze these records regularly to identify trends, make informed management decisions, and adjust strategies as necessary to optimize egg production.

#### Conclusion

In conclusion, the quail layer system offers numerous benefits and opportunities for individuals and businesses involved in poultry farming. Implementing effective management strategies is key to maximizing egg production in your quail farm. By selecting the right breed, providing optimal housing conditions, ensuring balanced nutrition, enhancing biosecurity measures, and maintaining accurate records, you can create an environment that encourages high egg-laying rates in your quail flock.



Figure 1. Layer Quail and Eggs



Figure 2. Cheap Wooden cage for Layer Quails

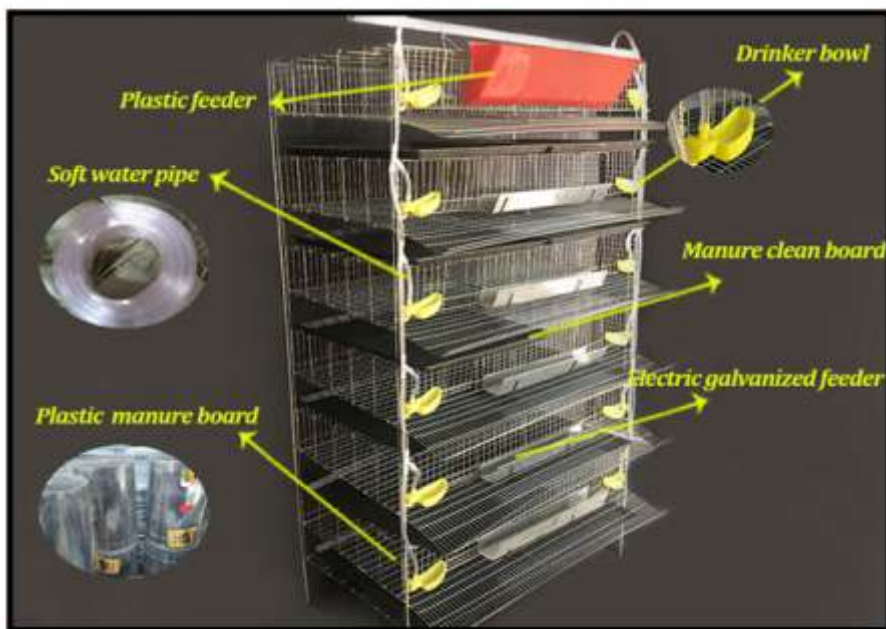


Figure 3. Commercially available 6 Tier Cage for Layer Quails



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# Optimal Selenium Nutrition: Save Costs and Improve Performance



**Jolien van Soest**  
Central Technical Manager, Orffa Additives B.V.

Modern-day animal production is becoming more intensive. The sector aims to maintain optimal performance while facing issues such as high stocking densities, pathogenic pressure, heat stress and welfare problems. This is often associated with high levels of stress. The antioxidant system is important during those periods, therefore, it can be stated that animals require a good antioxidant status, in order to deal with the negative effects of stress. Adequate nutrition is key in supporting the animals' antioxidant status, with a major role for selenium.

Selenium is an essential trace element, which is used for the synthesis of selenoproteins, such as glutathione peroxidase (GPx), which can function as antioxidants. The selenium levels in raw materials depend on the amount of selenium in the soil where the crops are grown. Therefore, the selenium levels in feed are often variable and rather low, highlighting the need to add selenium to the diet. Such supplemented selenium can be added in different forms, that can be distinguished as inorganic and organic. Inorganic selenium, usually in the form of sodium selenite, is often supplied as it is cheap, and it will be used for the synthesis of selenoenzymes in the animal. Organic selenium, as L-selenomethionine, can also be used for the synthesis of selenoproteins. However, it also has an important benefit compared to inorganic forms, since organic selenium in the form

of L-selenomethionine can be stored into animal proteins. This way it provides a safe deposit of selenium in the body, that can be used during times of stress when selenium demand is increased or feed intake is low. Therefore, L-selenomethionine is considered to be the most effective form of selenium.

There are different sources of organic selenium products on the market. One of such products are selenized yeasts. These are yeasts that have grown on a medium rich in selenium, which caused the yeast to incorporate the selenium inside the yeast protein. On average, selenized yeasts contain approximately 63% selenium in the form of L-selenomethionine, the rest of the selenium is present in other forms such as selenocysteine. These other forms of selenium cannot be stored in animal proteins. The selenomethionine content in selenized yeast is variable and depends on

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different producers but also on different batches of the same producer. When incorporating selenized yeast in the feed, it is important to consider that the digestibility of yeast protein, and therefore also for the selenomethionine in the yeast, is only approximately 70-80%. In practice, this means that when you have a selenomethionine content of 63%, the total digestible selenomethionine content is approximately 50%, with variation between batches.

Another source of organic selenium is synthetically produced L-selenomethionine. This additive does not have variation in concentration and contains all selenium in the form of L-selenomethionine. It is therefore considered to be an effective tool in supplementing the diet with the optimal amount of selenium.

In a trial by Delezie et al. (2014), the diet of Lohmann Brown laying hens was supplemented with different selenium

sources and dosages, in order to compare the results on selenium deposition in serum and eggs. Selenium sources included in the set-up were sodium selenite, selenized yeast and L-selenomethionine, all in the dosages of 0.1 ppm, 0.3 ppm and 0.5 ppm selenium. The results of this study clearly show that selenium from organic sources was more efficient in increasing selenium deposition in eggs, compared to sodium selenite (Figure 1). This is in line with the results shown for selenium in the serum. The highest selenium deposition was found for the birds receiving L-selenomethionine. Also, a dose-dependent effect could be observed, with higher selenium levels in eggs when the selenium inclusion level in the diet increases.

The increased selenium deposition in eggs for the L-selenomethionine-supplemented group, already at low dosages, represents the increased selenium status in the animal, allowing the animal to better deal

with stressors.

Another trial, published at the Annual Meeting of the European Federation of Animal Science in Ghent, Belgium, 2019, studying the effects of different selenium sources on selenium deposition, was performed in broilers. This study included 4 treatments, differing in their selenium source in the diet; no added selenium, selenium from sodium selenite, selenium from L-selenomethionine and selenium from L-selenocysteine with all added selenium at the level of 0.2 ppm. The results of this trial (figure 2) clearly show that L-selenomethionine significantly improves selenium deposition in the muscle tissue of broilers, while L-selenocysteine and sodium selenite have lower deposition at day 14. This once again shows that L-selenomethionine is the only form of selenium that can be stored, and that selenium deposition by L-selenocysteine does not have a benefit on selenium deposition compared to sodium

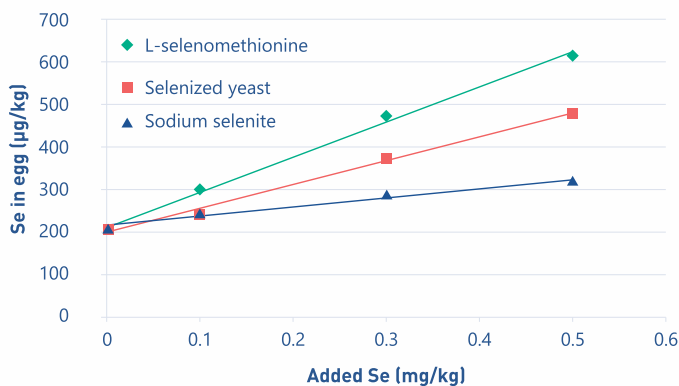


Figure 1: Selenium deposition in eggs for diets supplemented with 0.1, 0.3 or 0.5 ppm selenium in the form of sodium selenite, selenized yeast and L-selenomethionine (Delezie et al. 2014).

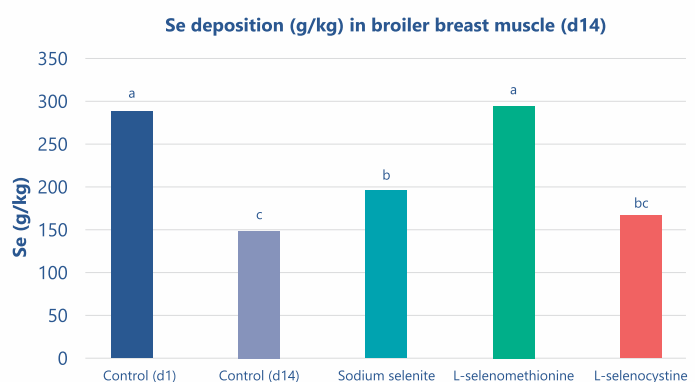


Figure 2: Selenium deposition in broiler breast muscle for diets supplemented with 0 ppm selenium (control) or 0.2ppm selenium in the form of sodium selenite, L-selenomethionine or L-selenocysteine.

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selenite.

The effects of selenium, on reducing the negative effects of stress, for example during heat or high stocking densities, have been shown previously in literature. A recent trial, published at PSA Annual Meeting San Antonio, Texas, USA 2023, studied the effects of selenium on performance during high stocking densities. The trial consisted of a 2 x 3 design; two treatments consisting of sodium selenite supplementation or L-selenomethionine supplementation, both at 0.3 mg Se/kg feed, and this for 3 different applied stocking densities; standard stocking density (29.84 kg/m<sup>2</sup>), +10% stocking density (32.84 kg/m<sup>2</sup>) and +16% stocking density (34.63 kg/m<sup>2</sup>). L-selenomethionine supplementation, in comparison with sodium selenite (Figure 3), showed 2% increase in body weight (P=0.002), a 2.5% better body weight uniformity (P=0.003) and a 2% improvement in feed conversion ratio (FCR) (P=0.04), for all tested stocking densities. Besides performance parameters, meat quality was improved. Tenderness was determined with the Warner-Bratzler method to measure shear force, for which L-selenomethionine showed a 12% decrease in the shear force of breast meat compared to sodium selenite (P=0.05), which indicates an increase in tenderness

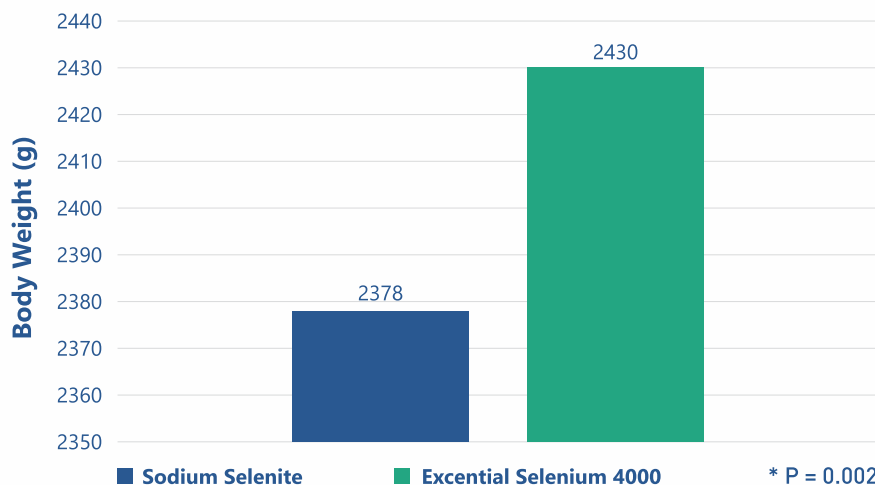


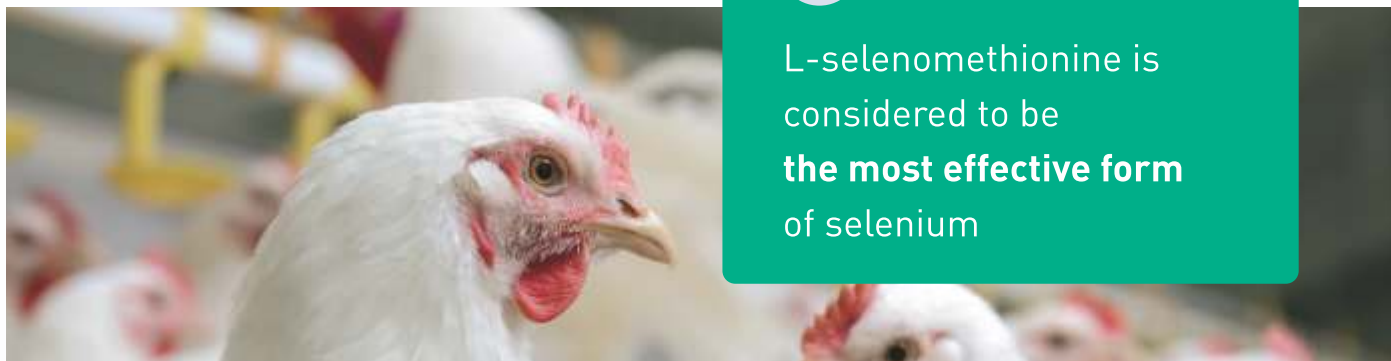
Figure 3: Final body weight of broilers supplemented with sodium selenite or L-selenomethionine at 0.3 ppm selenium.

and an improvement of meat quality.

Another important topic, when considering selenium in nutrition, is the dosage. The right dosage of selenium allows for optimal production, while overdosing can cause toxic effects on the animal.

In Europe, the legislation allows a maximum of 0.2 ppm organic selenium in feed, with a maximum of total selenium at 0.5 ppm. In practice, this means that nutritionists often combine an organic selenium source at 0.2 ppm, with 0.3 ppm

selenium as sodium selenite. Outside of the EU, slightly higher dosages of organic selenium can be used, around 0.3 ppm, which have been showing to allow for good results on production. Because L-selenomethionine already obtains such high effects at low dosages, compared to sodium selenite and selenized yeast, an economically interesting choice could be to supplement the diet with lower levels of L-selenomethionine, instead of using higher levels of selenized yeast.



L-selenomethionine is considered to be **the most effective form** of selenium

### Conclusion

It can be concluded that organic selenium has the highest bioavailability, compared to inorganic selenium. Within the different organic selenium forms, L-selenomethionine can be considered as the source allowing for consistent L-selenomethionine supplementation to the diet, with optimal results on the animals' selenium status. It allows for a better cost-efficiency, with lower supplementation levels, while maintaining similar or higher selenomethionine levels in the diet. This way, you can save costs while improving performance and health status.



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# ब्रूडर निमोनिया / एस्पेरजिलोसिस : मुर्गी पालन में एक बाधा

हिमानी रवि, अंकिता अवस्थी, प्रसेनजित धर  
मोनिका भारद्वाज, सुभाष वर्मा, राजेश चहोता, और  
मनदीप शर्मा

पशु सूक्ष्मजीवविज्ञान, डॉ. जी सी नेगी पशु चिकित्सा  
एवं पशु विज्ञान महाविद्यालय,

चौधरी सरवन कुमार हिमाचल प्रदेश कृषि  
विश्वविद्यालय, पालमपुर, हिमाचल प्रदेश

## परिचय

दुनिया में मुर्गी पालन एक ऐसा व्यवसाय है जो राष्ट्रीय स्तर पर सकल घरेलू उत्पाद में काफी मदद करता है। इस क्षेत्र में दिन प्रतिदिन विकास हो रहा है। उत्पादकता को बढ़ाने के लिए उच्च गुणवत्ता वाले मुर्गियों और फीड का होना अति आवश्यक है। इसके साथ साथ इनमें होने वाली बिमारियों और उनसे होने वाले नुकसान का चयन करना अति भी आवश्यक है। हमारे मुर्गी पालकों को मुर्गियों में पाई जाने वाली बिमारियों के लक्षण व उपचार की घरेलू विधियों का ज्ञान होना चाहिए। उन्ही कई घातक बिमारियों में से एक बीमारी कहलाती है – एस्पेरजिलोसिस जिसे हम ब्रूडर निमोनिया, मयकोटिक निमोनिया और एयर सैक डिजीज भी कहते हैं। यह बीमारी ज्यादातर छोटे चूजों में देखने को मिलती है। हालाँकि बड़ी मुर्गियां भी इससे प्रभावित होती हैं और यह जानलेवा बिमारियों में से एक है जो मुर्गी पालन के विकास में बाधा डाल सकती है।

## इस बीमारी के क्या कारण होते हैं और यह कैसे फैलती है ?

- इस बीमारी का मुख्य कारण एक एस्पेरजिल्लेस फ्यूमिगेट्स नामक कवक (फफूंदी) है।
- गीले व पुराने फीड का सेवन करने से जिसमें पहले से ही ये कवक मौजूद हो।
- लिटर से स्वांस के माध्यम से भी ये कवक एक मुर्गी से दूसरी मुर्गी में फैलता है।
- पिछले हैचरी से लाये हुए चूजे जहाँ अन्य चूजे इस बीमारी से ग्रसित थे। यह भी इस बीमारी के फैलने का मुख्य कारण फो सकता है।
- यह बीमारी हैचरी (मुर्गियों के रखने का स्थल) में अमोनिया उत्पन्न होने के कारण होती है।
- अमोनिया एक ऐसी जानलेवा गैस है जिसमें सांस लेने की प्रतिक्रिया प्रभावित होती है।
- यह गैस थी तरह से हवा आर पार

न होने से बनती है जिसमें ज्यादा नमी होने के कारण मुर्गियां तनाव में आ जाती हैं और सुस्त पड़ने लगती हैं।

## मुख्य लक्षण

- सांस लेने की प्रतिक्रिया में तकलीफ
- बिना आवाज़ निकाले ही हांफना
- पंखों में रूखापन और उनका झड़ना
- दाना खाने में घटौतरी
- सुस्त रहना
- अंधापन
- मृत्यु

## पोस्ट मोर्टेम में दिखाई दिए जाने वाले निशान –

- फेफड़ों में सूजन,
- फेफड़ों में हरे-पीले-सफ़ेद दाने दिखाई देते हैं और
- वायुकोष भी पारदर्शी दिखाई देता है।
- कभी कभी फेफड़ों और वायुकोष्ठिकाओं में फफूंदी कुछ गुच्छों में दिखाई देती है।

## इस बीमारी का निवारण कैसे किया जाये ?

- हैचरी में साफ सफाई होना बहुत आवश्यक है।
- हैचरी हवादार बनाये जिससे नमी न हो और अमोनिया बनने के अवसर न पैदा हो।
- नमी के कारण फफूंदी पैदा होती है।
- दाना-चारा गीला न हो। पूरी तरह धुप में सुखा कर ही खिलाएं।
- ब्रूडिंग तापमान ठीक रखें।
- चूजे किसी भी प्रकार से तनाव में न आये।
- फीड की नियमित रूप से जांच होनी चाहिए।
- (एक रात पहले २ ग्राम कॉपर सल्फेट को एक लीटर पानी में मिलाकर अगले दिन चूजों के हैचरी में रखने से पहले पूरी हैचरी में छिड़काव करें)



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which is a green technology with zero waste generation, Zeus Biotech produces some of the leading product lines including, Fermented Organic Trace Minerals, Feed Specific SSF Enzymes, Yeast Culture, etc., exclusively for animal supplementation. Organomin Forte, Microguard, Polyzyme and Rumiyeast are some of the leading brands from Zeus Biotech. The unique FS-SSF technology exploits the matrices and conditions prevailing in feed and feed processing, to produce speciality products with high stability and efficacy required to improve animal health, performance and farming profitability. The organisation also produces unique line of Bacillus





based probiotic strains at their submerged fermentation facility for some of their leading probiotic product brands including Microguard and NE-Guard.

Founded by Dr. Jay Prakash Nair, Zeus Biotech is one of the oldest animal nutrition dedicated biotech company situated in the south of India. With its commitment to realize the dream of providing natural solutions for sustainable livestock farming practices across the globe, the company has been successful in reaching out to customers in India and more than 20 countries including Malaysia, Thailand, Vietnam, Philippines, Australia, UAE, Oman, Qatar, Kuwait, Jordan, Egypt, Kenya, Tanzania, Nigeria, Ghana, Mozambique, Uganda, Bangladesh, Bhutan, Nepal, and Sri Lanka. The company which currently owns three feed supplement dedicated manufacturing facilities in Mysore, Karnataka, with its progressive approach has accomplished to generate 100% of its power requirement through solar energy

for its largest manufacturing facility. Zeus Biotech Research and development centre, the research and analytical division of Zeus Biotech Pvt Ltd, is now accredited for ISO/IEC 17025 by National Accreditation Board for Testing and Calibration laboratories (NABL). Under the accredited scope the laboratory will be able to carry out and issue reports of proximate analysis of feed and feed materials. The analytical facility which is already catering to poultry and other livestock farmers, integrators and feed manufacturers across India and overseas, will now be able to issue analytical reports with global acceptancy.

The research and development centre which is one of the most modern animal nutrition dedicated biotech facilities in India, hosts multiple departments including Microbial Culture Collection, Research & Development as well as Quality Control. The centre which is spread over an area of 10,000 square feet and equipped with

analytical instruments such as Liquid Chromatography, Mineral Spectroscopy, NIR, Thermocycler, etc., is skilled in microbial culture handling and processing, quality testing of feed, feed raw materials and feed supplements, determination and efficacy evaluation of enzymes, microbial strains, toxin binders and detoxifiers, organic acids, quantitation of various mycotoxins, evaluation, profiling and characterization of proteins and amino acids, quantitation of nutritional trace elements and toxic heavy metals, as well as testing of water parameters.

The centre also houses an exclusive and extensive microbial culture collection centre with numerous feed targeted fungal and bacterial strains with area of application including production of probiotics, feed specific enzymes, yeast culture, organic minerals, and other related applications. Many of these inhouse strains which have been isolated from various natural sources by the research team has



Zymonutrients Private Limited and Jaysons Agritech Private Limited. Kenzoe Private Limited caters liquid / water soluble farm care / healthcare products for Poultry. Zymonutrients Private Limited caters innovative products for Aquaculture, Equine, Pets & Zoo animals. Jaysons Agritech Private Limited caters the products for Dairy cows like Rumen yeast specific yeast culture, Fodder / Feed specific Enzymes, Organic trace minerals, Milk production enhancers, etc.

been successfully used in various animal nutrition related applications. Selected strains have also been deposited in various internationally recognised microbial depositories including Microbial Type Culture Collection Centre (MTCC), Chandigarh, India and Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH (DSMZ), which is the German National Culture Collection Centre.

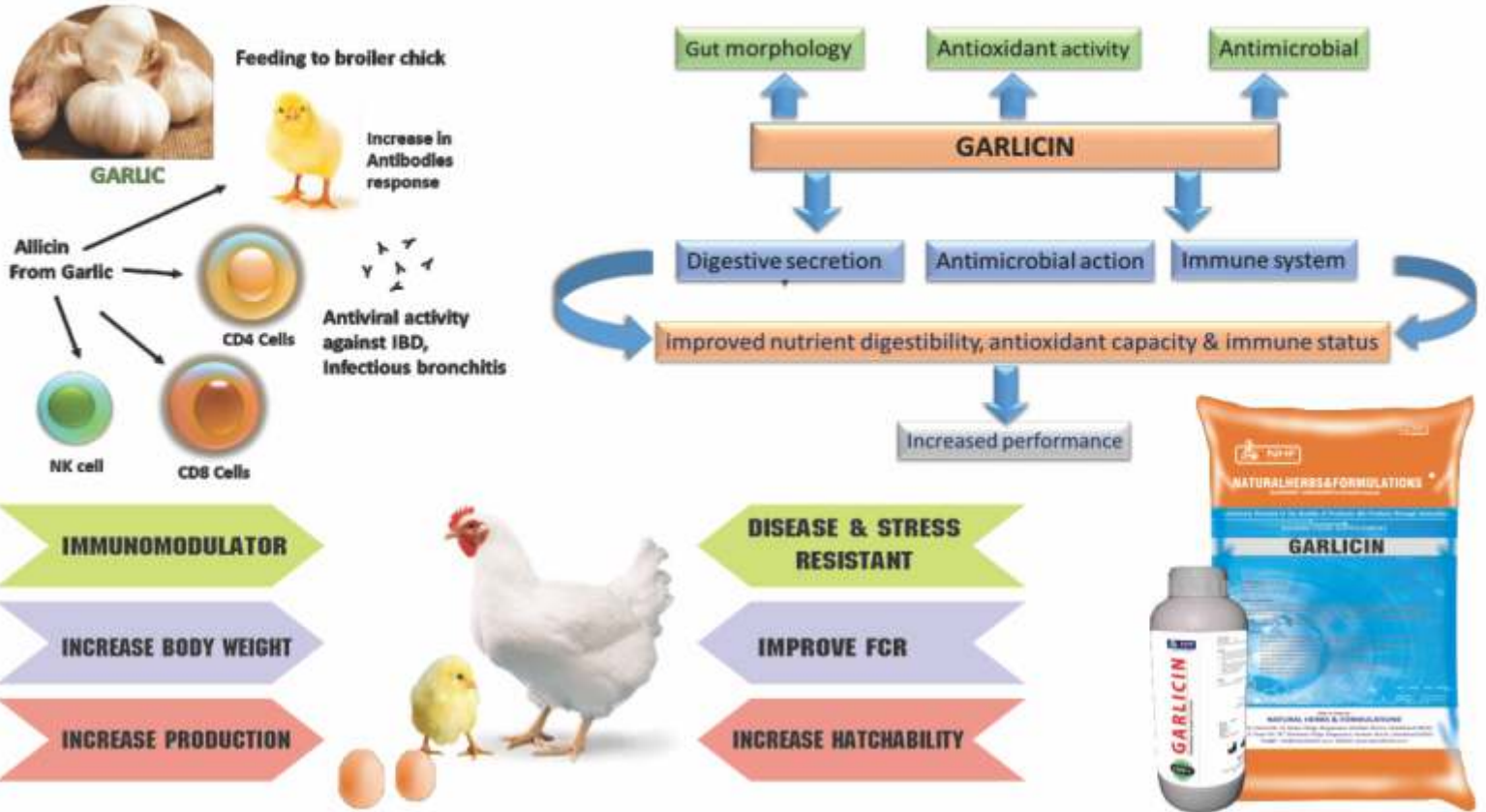
Another major highlight of the Research centre, the inhouse Quality Control Department which monitors, maintains, and controls the critical control points of the entire production facility is equipped with infrastructure and instruments qualified for analysing, determining and measuring analytes and parameters including minerals, enzymes, probiotics and pathogenic microbes, mycotoxins, toxic heavy metals, etc. The department thus ensures quality at various levels including raw material entry, material handling, during fermentation and other production related processes and finished product release. The department which follows European Feed Safety Authority guidelines and other international standards for its Quality system, analyses and confirms 25 – 30 quality and safety parameters in each product before release from its facilities.

Zeus Biotech has the group companies, Kenzoe Private Limited,



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**Dr. Barnali Devi**  
Sales Manager, VETNOVA, WBCIL

# Boost Animal Health and Performance with Glyminstar: WBCIL's Organic Trace Mineral Powerhouse

**GLYMINSTAR** ..... The star product of WBCIL

Glyminstar is an organic trace mineral mixture for poultry, Dairy & Aqua manufactured by VETNOVA, the Animal Health Division of WBCIL (West Bengal Chemical Industries Ltd)

At today's date the use of inorganic minerals in dairy or poultry rations has been replaced by chelated minerals because of its added advantages.

Glyminstar is chelated with the ideal chelating agent Glycine that has got higher stability constant compared to other ligands. Higher stability constantly keeps the chelate intact & increases the bioavailability of minerals ensuring efficient release in tissues. Glycine has a specific site of absorption (active and passive) in the intestine. And hence there is no wastage of the minerals while it travels to the distal part of the gut.

Chelation is not just a physical blending of a mineral with an amino acid but rather involves chemical bonding. A coordinate covalent bond is required for chelation, where both electron pairs are donated by the ligand. Ligand transforms the previously inorganic molecule into an organic mineral form, & hence bioavailability is increased.

A mineral in a chelated state allows easy passage through the intestinal wall into the blood resulting in increased metabolism of that mineral.

Glyminstar has adequate quantities of Zinc, Copper, Manganese, Selenium, Iron, Chromium, Cobalt & Iodine in a chelated state.

**Zinc** is a major player in the creation of DNA & growth of cells, building

proteins, healing damaged tissue & supporting healthy immune system.

**Copper** is required for formation of antibodies, WBC & antioxidant enzyme productions & proper immune development.

**Manganese** is an important cofactor for many enzymes involved in energy and protein metabolism.

**Selenium** is an essential component of various enzymes & proteins called selenoproteins, that helps to make DNA & protects against cell damage.

**Iron** is required to form Hemoglobin that transports oxygen and Myoglobin that stores and uses oxygen in muscles.

**Chromium** is important for breaking down fat & carbohydrates.

**Cobalt** combined with Vitamin B12 optimizes erythropoiesis and nervous functions.

**Iodine** is required to produce thyroid hormone which maintains energy metabolism and productive performance in dairy cattle and other livestock.

All the trace minerals are perfectly chelated with Glycine and blended in Glyminstar, hence it gives excellent results in the targeted species including aqua.

As the addition of a very small quantity in the feed gives good results it is cost effective as well.

For poultry 500-800 gm and in cattle, buffalo & aqua 500 gm per ton of feed serves the purpose and for calf, sheep, goat & pig, it is just 2 gm per day.

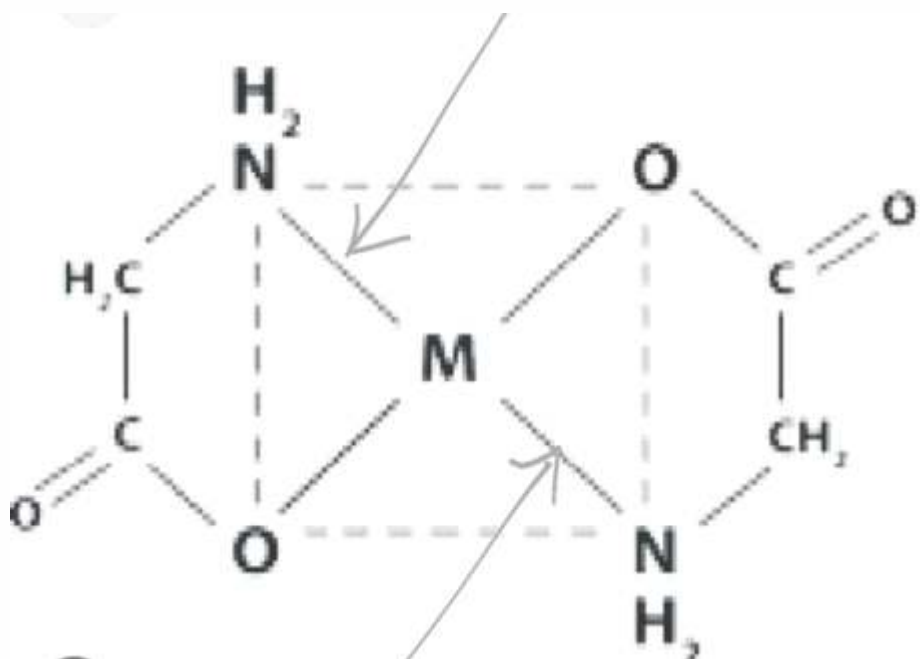


FIG: Metal Glycine Chelate Structure (M represent metal atom)





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# Cosmos Impex's Limestone Solutions for Poultry, Agriculture, and Aquaculture

Cosmos Impex managed by Young entrepreneurs, deals in limestone grit and limestone powder.

Limestone grit are manufactured from mining young mountain stones, which are comparatively soft containing sufficient calcium contents. The potential calcium content therefore, enlarges the bones and sizes of the eggs produced from the birds, ultimately benefiting the poultry farms owners enormously.

Moreover, the size and shape of the limestone grit is 2-4 mm in size and round in shape which are smoothly and comfortably consumed by the birds, unlike of sharp edges which hurt the birds.

Limestone powder is grinded finest enough as less as 250  $\mu\text{m}$  which are properly suitable for making feeds.

Our Agricultural / Aqua Lime containing sufficient calcium and less magnesium increases the fertility of the soil by reducing the acidity of the soil. The acidity of the soil is caused by excessive use of chemical fertilizers and low meagre use of organic fertilizers.

Our aqua lime is used in Fisheries pond to maintain the pH level in the water which keeps the water Pond to its best level.

Thus the use of our above products increases the quantity and quality of final goods benefiting the farmers.

It is encouraging to underline the increasing uses of above products by many poultry farmers, agricultural cultivators and fish farmers.



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- High Quality Construction

- Accurate Dose



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# Transform Your Poultry House with EcoCool Antibacterial Evaporative Cooling Pads

Saugata Bhattacharya  
saugata@pahwa.com

The increasing world population has raised the demand for food. To meet this demand the worldwide poultry meat production has increased by 25% in the last 10 years . It is important to ensure optimum environmental conditions for healthy and efficient production in the broiler houses used to meet this demand. However, the methods used to achieve high production performance and high feed conversion efficiencies make broiler chickens more sensitive to heat stress. This increased sensitivity to heat stress can have undesirable consequences in terms of growth rate and feed efficiency Heat stress significantly affects animals' immune system and can lead to an increase in the incidence of disease. Therefore, the immune response in poultry has economic, social and scientific importance . In

many regions of the world, the efficiency of poultry production is negatively affected by heat stress. In particular, in the hot summer months, the effects of the outdoor environment and the Sun's rays cause the temperature in poultry houses to rise, which leads to heat stress in chickens thus resulting in reduce feed consumption, stunted growth , lower egg production and increases deaths all of which adds significantly to economic losses .

The acceptable ambient air temperature range for poultry is 15–25 °C for adult broilers, over 28 °C for broiler chickens and 30 °C for turkeys. Temperatures that exceed these levels can cause considerable heat stress in birds.

Keeping poultry houses at the desired temperature is crucial for the health and productivity of the birds. That's why implementing an efficient cooling system is a game-changer for poultry farmers. And when it comes to revolutionary cooling solutions, DRI EcoCool evaporative cooling pads are in a league of their own.

## Experience the Cooling Revolution

DRI EcoCool evaporative cooling pads bring a breath of fresh air to your poultry farming experience. Designed to keep your chickens cool and comfortable, these pads offer a range of benefits that will transform your poultry house into a haven of productivity and profitability.

## Efficiency at Its Finest

EcoCool pads operate on a simple yet highly effective mechanism of evaporative cooling. These Evaporative Pads are wetted by running water and when Hot air passes through them , they cool the air by the simple process of evaporation thus creating a natural

**Transform your Poultry House with EcoCool Evaporative Cooling Pads**

- Regulate Temperature
- Reduce the water consumption in birds
- Reduces stress in Birds and promotes better growth
- Improve egg production and Meat quality in poultry
- Reduce the risk of bacterial growth and the spread of diseases

cooling effect that significantly reduces the temperature inside the poultry house. Compared to traditional cooling methods, EcoCool pads are exceptionally energy efficient, adds significantly in bringing down the temperature inside the poultry houses and also provides major saving on energy bills without compromising on performance and comfort.

#### **Anti bacterial cooling pads for better Health of Poultry and chickens**

The Anti-bacterial properties of EcoCool evaporative cooling pads help to create a healthier environment for poultry by not allowing water borne bacterias to grow thereby allowing only cool bacteria free air to pass through. This leads to improved air quality, respiratory health, and overall well-being of the chickens, ultimately enhancing their productivity.

#### **Built to last**

EcoCool pads are constructed with strength and durability in mind. Designed to withstand the challenging conditions of poultry houses, these pads are resistant to rot, and damage. Even with repeated washing and sanitization, they maintain their effectiveness over time. With EcoCool pads, there is assured return to investment which will stand the test of time, providing reliable cooling and comfort for chickens season after season.

#### **Retrofits easily and effortless maintenance**

Installing EcoCool evaporative cooling pads is a breeze. Whether one choose to mount them on walls or ceilings in Direct Fan Pad system or inside large coolers, the process is quick and hassle-free. Once installed, a water distribution system ensures that the pads are evenly saturated, delivering optimum cooling throughout the poultry house. And when it comes to maintenance, EcoCool pads require only periodic cleaning and replacement as needed, keeping your workload to a minimum.

#### **A sustainable solution**

Going green has never been this easy. DRI EcoCool evaporative cooling pads offer an eco-friendly solution to combat the heat while maximizing the

farm's profitability. With their energy efficiency, improved air quality, and long-lasting durability, these pads strike the perfect balance between environmental responsibility and economic viability.

#### **Revolutionize Poultry Farming**

By taking the heat stress out of the equation the Eco Cool Pads are considered the Farmer's best friend. Embracing the cooling revolution with EcoCool evaporative cooling pads and creating a comfortable, productive, and sustainable environment for the chickens signifies goodbye to high

energy bills, respiratory problems, and subpar performance.

Evaporative Cooling is the only sustainable solution to Poultry Houses going for high production . The use of evaporative cooling systems increases income by providing optimum environmental conditions , improving temperature and adding relative humidity in broiler houses during the summer months.

Presence of Eco Cool Pads inside the Evaporative cooling system is the best way to achieve the same





## JAPFA India Introducing Animal Feed and Agri Allied Products Testing Laboratory (An NABL accredited Lab) in Maharashtra and West Bengal

JAPFA COMFEED INDIA PVT LTD, A subsidiary of JAPFA LTD, Singapore which is known as a leading provider of animal feed and Agri-Food products, is proud to announce the opening of its advanced testing laboratory. This state-of-the-art facility is dedicated to analysing animal feed and agricultural allied products, ensuring the highest standards of quality and safety for its customers.

One of the key highlights of this laboratory is its accreditation from the National Accreditation Board for Testing and Calibration Laboratories (NABL). NABL is an autonomous body under the Department of Science and Technology, Government of India, responsible for providing reliable and accurate testing and calibration services. The accreditation signifies that JAPFA COMFEED INDIA PVT LTD's laboratory meets stringent international standards for testing competence and impartiality.

In addition to NABL accreditation, the laboratory holds certifications for ISO 9001, ISO 22000, and HACCP. ISO 9001 is an internationally recognized standard for quality management systems, ensuring that the laboratory operates efficiently and consistently delivers high-quality services. ISO 22000 focuses specifically on food safety management systems, guaranteeing that the laboratory adheres to rigorous protocols to prevent foodborne hazards.

Moreover, the laboratory has obtained HACCP certification, which stands for Hazard Analysis and Critical Control Points. HACCP is a systematic approach to identify, evaluate, and control hazards in food production processes. This certification further demonstrates JAPFA COMFEED INDIA PVT LTD's commitment to ensuring the safety and integrity of its animal feed and

agricultural products.

The new testing laboratory aims to provide JAPFA COMFEED INDIA PVT LTD's customers with comprehensive and reliable testing services. Through cutting-edge equipment, highly trained personnel, and stringent quality control measures, the laboratory will analyze samples to assess their nutritional composition, contaminants, and overall quality. These tests will enable customers to make informed decisions about the animal feed and agricultural products they use, ensuring the health and productivity of their livestock and crops.

By establishing this advanced testing laboratory with NABL accreditation and certifications for ISO 9001, ISO 22000, and HACCP, JAPFA COMFEED INDIA PVT LTD strengthens its position as a trusted provider of high-quality animal feed and agricultural products. The company remains committed to meeting the evolving needs of its customers and upholding the highest standards of quality and safety in the industry.

This world class testing laboratory will give several benefits to Indian and south Asian farmers, particularly for the agricultural and livestock industries. As per Mr Manish Patil, Head of Laboratory and Quality assurance, Japfa India following will be the benefits for Animal feed manufacturers and Agri farmers :

1. **Quality Control:** A feed testing laboratory helps ensure the quality and safety of animal feed. It analyses samples to determine nutritional content, detect contaminants, and assess overall feed composition. This information is crucial for maintaining consistent feed quality and preventing issues that could impact animal health.




# Japfa India Introducing Animal Feed & Agri Allied Products Testing Laboratory

(NABL ACCREDITED LAB)

We take pride in providing top-notch quality assurance services for various types of animal feed, agro products, oil & fats, minerals, water, and more. Our certified lab guarantees accurate and reliable results, ensuring that our clients receive only the best quality products.



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2. **Nutritional Analysis:** Feed testing laboratories provide detailed nutritional analysis of feed samples. They can determine the levels of various nutrients, such as proteins, carbohydrates, fats, vitamins, and minerals. This information allows farmers and feed manufacturers to assess the nutritional adequacy of their feed formulations and make any necessary adjustments to optimize animal performance.
3. **Formulation Optimization:** By analyzing feed samples, a testing laboratory can provide valuable feedback to farmers and feed

manufacturers on the nutritional composition of their feed. This data helps optimize feed formulations to ensure they meet the specific dietary needs of different animal species and production stages, leading to improved animal health, growth, and productivity.

4. **Contaminant Detection:** Feed testing laboratories can identify the presence of contaminants in animal feed, including mycotoxins, heavy metals, pesticides, and other harmful substances. Detecting and quantifying these contaminants is crucial for preventing their

ingestion by animals, which can lead to health problems, reduced performance, or even food safety issues if the contaminated feed enters the human food chain.

5. **Compliance with Regulations:** Animal feed production is subject to various regulations and standards related to quality, safety, and labeling requirements. Feed testing laboratories help ensure compliance with these regulations by conducting analyses that confirm the feed meets the specified standards. This assists feed manufacturers in avoiding legal issues, maintaining customer trust, and meeting market demands.
6. **Research and Development:** Feed testing laboratories contribute to research and development efforts within the animal nutrition field. By conducting analyses, collecting data, and studying feed samples, they help advance scientific knowledge and understanding of animal nutrition. This information can be used to develop innovative feed formulations, improve feeding practices, and enhance animal health and productivity.
7. **Troubleshooting and Problem Solving:** When issues arise related to animal health, growth, or performance, feed testing laboratories can play a vital role in identifying potential causes. By analyzing feed samples and comparing them with nutritional requirements, they can help diagnose feed-related problems, such as nutrient deficiencies or imbalances. This enables prompt corrective actions and prevents further losses.

Overall, feed testing laboratories provide critical services that contribute to the production of safe, high-quality animal feed, optimized animal nutrition, and improved animal health and productivity. They are indispensable for farmers, feed manufacturers, researchers, and regulatory bodies in ensuring the well-being of animals and the success of the agricultural and livestock industries.

# Cluckington's Comical Farm: Where Chickens Rule the Roost and Laughter Abounds!

Once upon a time, in the quaint village of Cluckington, there was a farm owned by Mr. Feathersworth, a quirky and slightly eccentric farmer. He had a knack for coming up with unconventional ideas, and his latest venture was layer farming. However, this was no ordinary layer farming operation—it had a hilarious twist.

You see, Mr. Feathersworth believed that happy chickens laid tastier eggs. So, he decided to create the world's first chicken amusement park on his farm. He built a miniature roller coaster called the "Egg-celerator," a Ferris wheel called the "Cluckin' Spinner," and even a bungee jump tower called the "Egg-sperience." The chickens had the time of their lives, clucking with joy as they rode the thrilling attractions.

But it didn't stop there. To keep the chickens entertained, Mr.

Feathersworth hired a flock of chickens with extraordinary talents. These chickens could sing, dance, and even do magic tricks. He called them "The Cluck-a-Doodle-Do Showbirds."

Each chicken had its own unique talent. There was Henrietta, the singing diva who could hit high notes that shattered glass. Then there was Beatrice, the dancing queen who could do the chicken salsa like no other. And let's not forget about Albert, the chicken magician who could pull eggs out of thin air.

The star of the show was a clever rooster named Sir Clucks-a-lot. He had the whole flock rolling in the hay with his witty jokes and hilarious puns. From "Why did the chicken cross the playground? To get to the other slide!" to "What do you call a chicken who tells jokes? A comedi-hen!", Sir Clucksalot's humor had the chickens in stitches.

Mr. Feathersworth also built a special stage in the middle of his farm. He named it "The Coop of Wonders" and invited the entire town to witness the extraordinary performances. Word spread like wildfire, and soon people from neighboring towns were flocking to Cluckington to catch a glimpse of the famous Cluck-a-Doodle-Do Showbirds.

The farm quickly became the talk of the town, and people flocked from far and wide to witness the spectacle. The local newspaper even published an article titled, "Feathersworth's Funny Farm: Where Laughter and Eggs Go Hand in Wing."

And so, the legend of Feathersworth's Funny Farm spread far and wide, bringing laughter to all who heard the tale of the chickens with a taste for adventure. It became a reminder that sometimes, even in the world of farming, a little humor and fun can go a long way.





# Report on Comprehensive Refresher Programme (CRP-2) Conducted by Centre of Excellence for Animal Husbandry, Animal Husbandry Academy of India, Hessarghatta, Bengaluru, 56008 from 05th to 09th June, 2023 for telangana state officers



Dr. Mahesh Addressing Valedictory Function PP

**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 second Comprehensive Refresher Programme (CRP-2) for Young Veterinary Professionals (batch size 20) from the **Government of Telangana State** from **05th to 09th June, 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 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 05th June, 2023, **Dr. Mahesh P.S.**, Joint Commissioner & Director, CEAH inaugurated the programme. In his inaugural address, he briefed



#### Veledictory Group Photo PP

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. **Dr. Ramachandra, Director,** Veterinary, Animal Husbandry, Government of Telangana addressed online. He wished all the trainee officials all the best for participating in the training programme. He stressed on gaining knowledge of latest technologies in the fields of Animal Husbandry and he hoped that the young vets will work towards making Telangana State, No.1 in Milk Production 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 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. Sonali Nanda** about requirements of Automation, Functioning of Feed Mill and Hatchery at the field.

On Tuesday, 06th June, 2023 **Dr. Mahesh P.S.** presented on Indian Animal Husbandry Schemes with a mandate of Govt. of India towards quality services at farmers doorsteps (mobile veterinary clinics), entrepreneurs development (NLM, AHIDF) eradication of animal diseases(ASCAD) and Livestock

Development (Rashtriya Gokul Mission), Breed Multiplication Farms, National Programme on Dairy Development, Accelerated Breed Improvement Programme feed and fodder development, livestock insurance etc. Later, **Dr. Atul Kolte**, Principal Scientist, ICAR-NIANP made a elaborate presentation on structure of ICAR, Animal Sciences Institutions in ICAR being third largest group with being 19 in number. Preceded by Horticulture Institutions, 23 and Crop Sciences institutions at the top with 27 institutions under ICAR in India. Under Animal Science, there are two deemed Universities, 9 National Institutes, one Bureau, 5 National Research Centers, one Directorate and one Project Directorate involved in Research & Development on Animal Science in the country. Dr. Kolte presented in detail about NIANP and technology developed at this centre with a lot of commercialization of the concept from NIANP. **Dr. Sonali Nanda**, Assistant Director made a presentation on activities of CPDO&TI including the future proposed activities at CPDO&TI.



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#### Activity based learning by NSB Academy team PP

In the afternoon, trainees 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 and **Dr. Holabasappa Teggi**, Joint Commissioner, Central Cattle Breeding Farm (CCBF) on activities of CFSPTI and CCBF respectively.

On 7th June, 2023, Wednesday, **Sri. S.M. Anwar Basha** made a presentation on Basics of Animal Nutrition and importance of Quality Control in Livestock Feeds. Later, **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 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. 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. **Dr. Mahesh P.S.** guided the trainees on the topic of Communication and Presentation Skills.

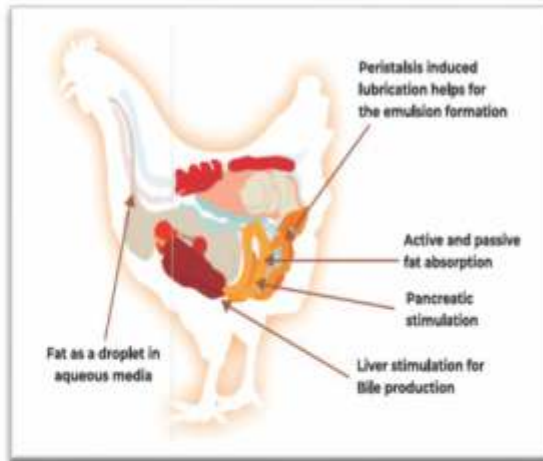
In the afternoon, trainees visited **CEAH Campus-4** to visit Regional Fodder Station, wherein they were exposed to fodder demo plots, fodder seeds display with a brand "Fodder Gold" followed by demonstration of Rhodes cultivation. The trainees were taken to Artificial irrigation pond which is recently 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 08th June, 2023, the session started at 9.00 am with **Prof. Dr. Vivek Patil** from KVAFSU, Bengaluru dealing on Animal Husbandry Projects and analysis. In his three hours deliberation, he demonstrated salient features of Dairy Project in detail including calculation of ratios and feasibility concerns. 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.

In the afternoon, Trainee officers 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

# 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.

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#### AQCS visit PP

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 **Shri. Sreeranjana** and **Shri. Abishek** from, NSB Academy Bengaluru. Trainee officers along with CEAH academy team participated with highest enthusiasm.

On the last day, 9th June, 2023, trainees visited “Naati Hasu Goshala” at Kakolu early in the morning 7.00 am to appreciate the activities at the Desi Cattle Farm. Later **Dr. Sachin Deshpande**, Assistant Director(Trg), Department of Veterinary, Animal Husbandry, Govt. of Telangana presented on Department of Animal Husbandry

Schemes of Govt. of Telangana. 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 google forms and written form.

The CRP-2 programme concluded with a Valedictory Function in which **Dr. B.R. Gulati, Director, ICAR-NIVEDI**, Bangalore participated as Chief Guest. In his address he praised the efforts of CEAH team

for successfully conducting such a comprehensive training programme on Animal Husbandry activities. 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.**, 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.



Online Address by  
**Dr. Ramachandra**,  
Director AH, Telangana State PP (2)

*An imbalanced Gut  
leads to production loss...*



- Balances intestinal microbiota to maintain gut health
- Boosts immunity and improves digestion for optimum performance

**Multi-strain probiotic**

**Prebiotic from an Herbal source**

**Phytobiotics**



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Indian Poultry Industry dynamics must be thoroughly examined towards adoption of few strategies to strengthen its existence and robust growth plan. Poultry meat will remain preferred protein despite all the odds due to its affordability and qualitative merits. We must work to boost consumer confidence in food safety & reliable production systems to help consumption & price acceptance. We have to establish reasonable supply infrastructure for related activities to ensure Indian chicken meat consumption continuously improves throughout next few years. Countries like India Need to work harder on consumer trust and product safety as these will be the threats for the markets.

Huvepharma® organized GeNex Conclave, a four-day event in Dubai from 2<sup>nd</sup> - 5<sup>th</sup> of May 2023. This event was created to bring together the next generation of CEO's from the Poultry Industry and to provide them with an opportunity to learn about new trends, technologies and practices that will help these young leaders stay ahead in this ever-changing business landscape. Attendees also had a chance to network with leading industry experts who shared their insights on how we can leverage our skills and knowledge for success.

The GeNex Conclave 2023 event was a huge success! It was a pleasure to witness the sheer number of talented minds at the GeNex Conclave. We were delighted to see so much new talent coming up in the industry, showing that there is still plenty of room for growth and innovation, it was inspiring to see how they are already making an impact and shaping the future of our Poultry Industry.



GeNex Conclave 2023 was a grand event started with much enthusiasm. The event began with a warm welcome note given by Dr. Priyanka Kamble (Manager Marketing Services, Huvepharma SEA). She welcomed all the participants and expressed her gratitude towards everyone for their participation in this prestigious event. Then the event inaugurated by esteemed speakers who lit the lamp to mark the beginning of the event.





The GeNex Conclave officially kicked off with the opening remarks by Mr. O. P. Singh (Managing Director Huvepharma SEA), one of the most respected and experienced business leaders in the Poultry Industry today. His wise words and insightful advice on how to make better decisions were inspiring to all who attended the conference. He shared his thoughts and advice on how new generation CEO's should approach their roles and responsibilities, offering invaluable guidance to those present at the event. It was truly amazing to hear his words of wisdom firsthand and it set a positive tone for the rest of the conclave.



We were honored to have some of the most influential figures in their respective fields as our esteemed speakers. They shared their knowledge and experiences with us during the conference, which made it even more special for all of us. The conference included many wonderful sessions on topics ranging from business strategies to digital marketing trends. Attendees had the chance to explore new trends in the Poultry Industry as well as gain valuable insights from industry experts.



The event was filled with inspiring talks, insightful sessions, and meaningful conversations that will help these new generation decision makers to shape the future of Poultry Industry. We hope that everyone who attended left feeling energized and inspired to continue pushing boundaries!



# Speaker's Felicitation



**Mr. Leander De Cauter**



**Mr. Bakul Sikka, Mr. Gaurav Khandelwal & Mr. Tanuj Raman**



**Dr. Alain Kanora**



**Mr. Jeremy Denisty**

After two days of inspiring discussions, the GeNex Conclave event came to a successful conclusion with the closing remarks of Mr. O. P. Singh (Managing Director, Huvepharma SEA) and Dr. Alain Kanora (Senior Director International Sales - Affiliates, Huvepharma NV) remarks which focused on how to make better decisions based on data-driven insights, as well as how to create an environment of trust among stakeholders to ensure effective implementation of decisions taken collectively by the team members. They highlighted the importance of next generation decision makers in driving the future of the Poultry Industry. The audience was captivated by Dr. Alain Kanora's insights into how processed food is going to transform Indian society and importance to understand the management of uncertainty. He also spoke about volatile cost management and disease management, including avian influenza. The event closing was a successful culmination of the event and it was followed by the certificate and goodies distribution as a token of appreciation for their participation.

At the end of the GeNex Conclave, Dr. Devender Hooda (Director - Sales & Technical, Huvepharma SEA) gave a vote of thanks to all the participants who attended the event. He thanked everyone to be part of such an enriching event and expressed his gratitude for everyone's presence. Dr. Devender Hooda also thanked all those who worked behind the scenes to make this event a success.



Huvepharma® team delighted to have had the opportunity to host the GeNex Conclave, an event dedicated to the next generation of decision makers from the Poultry Industry. It was an honor to have such distinguished next generation decision makers as part of this occasion. Huvepharma® team would like to thank all of our attendees for their participation and enthusiasm in making this event a success.

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## Shri Parshottam Rupala launches NANDI (NOC Approval for New Drug and Inoculation System) Portal



The programme is a crucial step towards improving Digital India and increasing livestock and the livestock industry's well-being: Mr. Rupala

Shri Parshottam Rupala, Union Minister of Fisheries, Animal Husbandry, and Dairying, launched the Nandi - NOC Approval for New Drug and Inoculation System online at Krishi Bhawan in New Delhi. Through seamless interaction with the SUGAM portal of the Central Drugs Standard Control Organisation, DAHD would facilitate the regulatory approval procedure with transparency to review and examine veterinary product proposals. Shri Rupala praised the Department of Animal Husbandry and Dairying (DAHD) for its exceptional work and emphasised the initiative as an important step towards achieving Digital India and boosting the well-being of animals and the livestock industry. Following the animal

vaccination coverage campaign and Mobile Veterinary Units (MVUs), the launch of the NANDI portal is another significant undertaking. This programme would also provide vital commercial support to researchers and industries. Increased medicine usage would result from expanding awareness among livestock rearers and enhancing logistical infrastructure. The Union Minister emphasised the significance of attentively monitoring the portal's activity for a few months in order to build a strong system. Shri Rupala thanked all stakeholders, especially CDAC, for their contributions to the construction of the NANDI platform.

Dr. Sanjeev Balyan, India's Minister of State for Animal Husbandry, Dairy, and Fisheries, praised the department's efforts in support of the Digital India programme.

Veterinary vaccinations have had and continue to have a significant impact not only on animal health and output, but also on human health by enhancing safe food supply and avoiding disease transmission from animal to human. This is a component of our entire ecosystem. It is critical to keep our animals healthy and to keep a steady supply of immunisations and treatments on hand.

The DAHD has been working hard to expedite the regulatory approval process, which is critical for the supply of veterinary medications and vaccines in the country.

DAHD has been working to improve the regulatory process by establishing empowered committees such as the Empowered Committee for Animal Health (ECAH), chaired by PSA (GoI), which is working to create resilient, farmer-centric animal health systems in India and bringing about changes to ensure India's livestock sector's long-term success. Under ECAH, a Regulatory Subcommittee comprised of various veterinary experts from industry and academia has been established with the goal of comprehensively deliberating, efficiently taking action, and providing recommendation/policy inputs on veterinary vaccine/biologicals/drugs submitted to the Department for its opinion.

To expedite the regulatory process for approval of animal drugs and vaccines,

the department has developed the NANDI portal through CDAC in collaboration with the Central Drugs Standard Control Organisation (CDSCO) in accordance with the spirit of the Hon'ble Prime Minister's Digital India vision, which captures the essence of Minimum Government and Maximum Governance by leveraging IT Systems. NANDI will spur growth and innovation by facilitating quick and easy collaboration across various government departments, institutes, and industries via a seamless interconnected system meant to accelerate and reinforce the regulatory process. The portal has elements that allow for end-to-end collaboration across Departments, Committees/ Subcommittees, and Applicants.

DAHD continues to make progress towards the treatments outlined in its Animal Pandemic Preparedness Initiative (APPI) with the launch of NANDI (NOC Approval for New Drug and Inoculation System).

## Poultry income is predicted to rise by 10% this fiscal year

According to CRISIL Ratings, the Indian poultry industry's income would rise by 10% this fiscal year due to ongoing demand growth and moderating realisations, even as new capabilities come up and enhance volume.

Operating profitability is expected to rise by 70 basis points (bps) this fiscal year, along with revenue, as input feed costs fall due to reduced soy and maize prices. Even if more debt is projected to be contracted for capacity growth in the medium future, according to CRISIL, this will help improve credit profiles.

The company claimed to have investigated 45 CRISIL-rated poultry products with sales of about Rs 15,000 crore in the previous fiscal year.

According to the rating agency, grill meat realisation is expected to fall 6-8% year on year to Rs 114-116 per kg this fiscal, owing mostly to increased supply as new facilities come online. Operating margins should be supported to more than 5.5%, which is 70 basis points higher year over year, as poultry feed

prices, which are primarily driven by maize and soy, may fall from last year's highs.

As sales and profitability increase, companies will be able to fund any additional working capital requirements internally. Poultrys have increased capacity by 8-10% (partially through debt financing), but because demand is still high, this fiscal year will also see a rapid ramp-up of capacity added in the last two quarters of the previous fiscal year, according to the report.

Consumption of grill meat and eggs is expected to rise to 5.2 lakh tonne (up 11-13% year on year) and 150 billion (up 6-8%). This is due to increased rural demand, higher per capita meat consumption, and a growing preference for a protein-rich diet. Despite lower realisations, increased volumes will support sectoral revenue growth.

It is expected for aggregate interest coverage ratios to increase to more than 6.5 times in the current fiscal year, up from an average of 5.11 times in the previous five fiscal years. However, sharp movements in feed prices, bird flu incidences, heat waves, and the extent of rural and semi-urban demand need to be closely monitored. This will help strengthen credit profiles despite the fact that additional debt is expected to be contracted for capacity expansion in the medium term.

## 250 mobile veterinarian units will hit Tamil Nadu streets in two months

The government has completed its ambulance acquisition and intends to designate one for every 1L of livestock.

The animal husbandry department plans to launch 250 mobile veterinary units (MVUs) around the state in an effort to deliver veterinary services to farmers' doorsteps. According to government sources, one veterinary ambulance would be allotted for every 1 lakh cattle population, and each block will receive one MVU.



"The procurement of ambulances has been completed," said M Lakshmi, Director of Animal Husbandry and Veterinary Services. The Tamil Nadu Medical Service Corporation is looking for veterinarians and other support professionals for ambulances. The tendering process is ongoing, and we want to launch the services across the state within two months."

The MVUs were purchased for Rs 39 crore under the Union government's Livestock Health and Disease Control Programme. The state government will run the ambulances under a public-private partnership (PPP) approach. The ambulances will be outfitted with diagnostic, therapy, minor surgery, and other essential necessities.

The MVU will be outfitted with sample collection tools such as vials, vacutainers, syringes, a small refrigerator, and a variety of therapeutic medications such as life-saving pharmaceuticals and antibiotics. A veterinarian, a para-veterinarian, and a driver-cum-attendant will be assigned to each MVU.

According to a joint director of the department, the mobile units will be placed in areas where they can serve the greatest number of villages. "Aside from rescuing distressed animals, the MVUs can also be used to conduct special camps to protect cattle and poultry from disease," an official explained.

In 2015-16, the agency piloted the animal mobile medical ambulance system in five districts. There are now 32 ambulances in service. However, in a few locations, these ambulances lack the necessary infrastructure and personnel.

## Amul Dairy set to Revolutionize Poultry Industry

## with Vegetarian Poultry Feed for Healthier and Safer Chicken

Amul Dairy's entry into the poultry sector with their vegetarian poultry feed reflects a growing trend in the industry. The decision to use only vegetarian ingredients in the feed is based on the belief that it reduces the risk of infections and ultimately leads to lower mortality rates among poultry.

Conventional poultry feed typically includes both vegetarian and non-vegetarian ingredients such as bone and meat meal, fish meal, blood meal, and other abattoir byproducts. These animal-derived ingredients are known to contribute to the growth and quality of poultry meat and eggs. However, they also increase the vulnerability of birds to infections like E. coli and salmonella, which can have serious consequences.

By focusing on vegetarian raw materials in their poultry feed, Amul Dairy aims to minimize the risk of infections and provide healthier poultry products. The use of vegetarian ingredients like soybean, maize, bajra, barley, and maize gluten, along with growth-promoting additives, is intended to promote higher growth rates, tender meat, increased egg production, and lower feed conversion ratios.

The decision to manufacture the poultry feed in multiple locations across Maharashtra, Gujarat, West Bengal, Madhya Pradesh, and Punjab indicates Amul Dairy's commitment to meeting the demands of the growing poultry industry throughout India.

The poultry industry in India has experienced significant growth in recent years, with a 7.5% increase over the last decade. India has now become the world's third-largest producer of eggs, and the revenue of the poultry industry has exceeded Rs 2.5 lakh crore. This expansion presents numerous job opportunities within the sector.

Amul Dairy's goal of selling 5,000 metric tonnes of poultry feed in 2023-24 demonstrates their confidence in the

market demand for their vegetarian poultry feed. The initial success of selling 40 tonnes in the first month of production in Maharashtra further validates this expectation.

Overall, Amul Dairy's entry into the poultry sector with their vegetarian poultry feed aligns with the evolving preferences of consumers and their concerns about food safety. By focusing on vegetarian ingredients and reducing the risk of infections, Amul Dairy aims to provide healthier and safer poultry products to meet the growing demand in India's poultry industry.

## **DTAB Takes Action: Suggests Ban on Ketoprofen and Aceclofenac for Animal Use to Protect Endangered Vultures**

The Drugs Technical Advisory Board (DTAB) has recommended the formation of a subcommittee to investigate drug-related issues that may have an impact on animal health or the environment and submit a report to the Board for appropriate action. The Board recently decided to prohibit the production and manufacture of the drugs ketoprofen and aceclofenac for animal use.

While considering a representation requesting a ban on these two drugs for the treatment of livestock animals in order to save vultures, the Board concluded that the issue should be proactively examined and a list of all such drugs which affect animal health or the environment should be prepared for further appropriate action in the matter and accordingly recommended to constitute a sub-committee to examine the matter in detail and submit its report to the Board.

It was stated in the representation that Ketoprofen and Aceclofenac in cattle are equally toxic as Diclofenac and can kill vultures. According to one study, Aceclofenac is quickly metabolised into Diclofenac, and Ketoprofen is toxic to gyps vultures.

The matter was referred to the Ministry of Agriculture and Farmers' Welfare's Department of Animal Husbandry and Dairying (DAHD) for expert advice. The DTAB met with subject experts and agreed to prohibit the manufacture, sale, and distribution of the drugs Ketoprofen and its formulations, as well as Aceclofenac and its formulations, for use in animals.

According to a study published in 2022 by researchers from the Indian Veterinary Research Institute in Uttar Pradesh and others, Aceclofenac is vulture-toxic and behaves similarly to Diclofenac in domestic water buffalo and domestic cattle, posing the same risk to vultures. It advocated for an immediate ban on the drug's veterinary use in vulture-range countries.

The use of Diclofenac, which was primarily used to treat injured and dying cattle, has resulted in a population decline of three species of Gyps Vultures in the country and other South Asian nations since the mid-1990s, according to the study. When vultures feed on the dead bodies of animals treated with the drug, the birds suffer from kidney failure, visceral gout, and death. It went on to say that NSAIDs like meloxicam and tolfenamic acid have been identified as drugs that are safe for vultures. Other NSAIDs, such as ketoprofen, nimesulide, carprofen, and flunixin, have been shown to be toxic to captive vultures.

## **SKUAST-Jammu Empowers Veterinary Students with Entrepreneurial Skills in Poultry Farming Training Program**

SKUAST-Jammu (Sher-e-Kashmir University of Agricultural Sciences and Technology of Jammu) held a one-day training programme titled "Entrepreneurial Opportunities in Poultry Farming" at the Faculty of Veterinary

Sciences and Animal Husbandry, R.S. Pura campus. The training aimed to educate and sensitise 66 final-year B.V.Sc. & A.H. (Bachelor of Veterinary Sciences and Animal Husbandry) students about poultry, meat, and egg production and processing, as well as improve the efficiency of poultry production systems, product development, financing, marketing, branding, and entrepreneurship in both commercial and rural backyard poultry sectors.

Prof. Mohinder Singh Bhadwal, Dean of the Faculty of Veterinary Sciences & A.H., inaugurated the programme, which was attended by Prof. Vikas Sharma, Principal Investigator of NAHEP-IDP (National Agricultural Higher Education Project-Institutional Development Plan) at SKUAST-J, Prof. Jonali Devi, Head of the Division of Veterinary Physiology & Biochemistry, and other faculty members. Prof. Bhadwal emphasised the significant growth of India's poultry sector, with egg and broiler production increasing at a rate of 8 to 10% per year versus 1.5 to 2% for crops. He emphasised the high demand for poultry meat and eggs in Jammu and Kashmir, where 84% of the population is non-vegetarian, and outlined the training program's objectives, which aimed to foster discussions, knowledge exchange, and expertise among incoming Veterinary graduates.

Prof. Jonali Devi, associate member of NAHEP-IDP at SKUAST-Jammu, welcomed the program's Chief Guest, dignitaries, and speakers. She detailed the one-day entrepreneurship programme and highlighted various areas within the poultry sector where aspiring veterinarians could start entrepreneurial ventures. Prof. Vikas Sharma provided an overview of SKUAST-Jammu's NAHEP activities aimed at developing students' vocational and entrepreneurial skills.

Dr. Rajeev Roy of RR Animal Health Care Limited, Karnal, Haryana, gave an invited lecture about the scopes and opportunities in profitable poultry farming, as well as exploring the entrepreneurial potential in poultry disease diagnostic services, during the programme. Dr. Raman Dhar, a prominent poultry practitioner and retired Deputy Director of Research

from the Animal Husbandry Department in Jammu and Kashmir, delivered a lecture on the opportunities in the poultry industry in the Union Territory of Jammu and Kashmir.

## **Zydus Lifesciences Expands into Diagnostics Market with 6.5% Equity Stake Acquisition of Mylab Discovery Solutions**

Zydus Lifesciences will pay 106 crore for a 6.5 percent equity stake in Mylab Discovery Solutions. The acquisition will allow Zydus to enter the growing diagnostics market. Zydus Lifesciences announced on June 23 that it will purchase a 6.5% equity stake in Mylab Discovery Solutions Limited for Rs.106 crore. Zydus Animal Health and Investments, a wholly owned subsidiary of Zydus Lifesciences, has entered into a share purchase agreement with Rising Sun Holdings and Mylab Discovery Solutions.

The acquisition is expected to be completed within two months of signing the share purchase agreement for the acquisition of 65,06,500 equity shares of Mylab from the existing shareholder.

Mylab's business is to research, develop, manufacture, market, and sell in-vitro diagnostics kits, equipment, reagents, and related therapeutic products linked to its diagnostic portfolio, as well as to provide portfolio solutions to other labs and hospitals. According to preliminary financial statements, Mylab had a revenue of Rs. 95 crore for the fiscal year ended March 31, 2023.

The proposed investment in Mylab will enable the company to participate in the growing diagnostics space, which is expected to see increased penetration via in-clinic solutions with point-of-care testing devices.

## **USDA Approves Sale of Lab-Grown Chicken, Paving the Way for Slaughter-Free Meat**

The cultured meat industry has made significant progress since the world's first lab-grown burger was created in 2013. The recent milestone in the United States is the ruling by the US Department of Agriculture (USDA) stating that cultured chicken is safe to eat and legal to sell. This approval follows preliminary approval from the US Food and Drug Administration (FDA). Currently, there are two California-based companies producing cultured meat: Upside Foods (formerly Memphis Meats) and Good Meat.

The process of creating cultured meat involves extracting cells from an animal's tissue, which does not harm or kill the animal. These cells are then cultivated in bioreactors, where they divide, multiply, and mature in an environment mimicking the inside of an animal's body. Once mature, the cells are harvested, refined, and shaped into the final meat product. Cultured meat can be produced from various animal sources, such as pigs, cows, chickens, and fish.

Upside Foods has opened a center in Emeryville, California, for engineering, production, and innovation. They plan to initially produce 50,000 pounds of meat per year, with eventual plans to scale up to over 400,000 pounds per year. Good Meat, on the other hand, is building a demonstration plant in Singapore and has announced plans for a large-scale facility in the US with an annual production capacity of 30 million pounds of meat.

Both Upside Foods and Good Meat have received FDA approval, allowing them to sell their cultured chicken. Good Meat was the first company to bring cultured meat to market, with their chicken being available in Singapore since 2020. They plan to launch their cultured chicken in a restaurant owned by celebrity chef

José Andrés in Washington DC. Upside Foods will offer its chicken at Bar Crenn, a high-end restaurant in San Francisco run by three-Michelin-star chef Dominique Crenn.

Despite these advancements, the cultured meat industry faces challenges. Consumer acceptance is a significant hurdle, as many people show resistance to trying lab-grown meat due to concerns about safety or it being unfamiliar. Educating consumers about the production process and benefits of cultured meat may help overcome these reservations. Additionally, the industry has faced criticism regarding high costs, scalability issues, and potential environmental impact.

The recent USDA approval marks a significant step forward for the cultured meat industry in the United States. While there is still progress to be made before cultured meat is widely available and affordable, the industry is steadily advancing towards a future where meat production can be achieved without the need for animal slaughter.

## **Innovative FEED Act proposed for non-nutritive feed additives**

The Innovative Feed Enhancement and Economic Development (Innovative FEED) Act of 2023, introduced by US senators Roger Marshall (R-Kan.), Jerry Moran (R-Kan.), Tammy Baldwin (D-Wis.), and Michael Bennet (D-Colo.) on June 8, aims to create a new category for animal food additives that do not impact animal nutrition. This new category would allow these additives to be regulated as food additives rather than drugs, which would expedite the process of bringing them to market.

The act proposes amending the Federal Food, Drug, and Cosmetic Act to establish the category of zootechnical animal food substances. These substances would act in the animal's gut to provide health benefits, reduce emissions, or address human food safety concerns.



The American Feed Industry Association (AFIA) has long advocated for the update of FDA policies to exempt these substances from the drug approval process conducted by the FDA's Center for Veterinary Medicine. Currently, without congressional approval, the FDA does not have the authority to regulate these products as feed ingredients. Treating them as animal drugs limits innovation and hinders the animal food industry's ability to offer solutions to public health and environmental challenges.

The legislation is supported by various organizations, including the National Milk Producers Federation, the National Grain and Feed Association, and the American Feed Industry Association. The act aims to create a new pathway at the US Food and Drug Administration (FDA) specifically for approving new and innovative feed additive products. This would enhance efficiency in meat and dairy production while reducing byproducts. Currently, these feed additive products undergo either the lengthy eight- to ten-year process for animal drugs or the approximately two-year process for feed ingredients at the FDA.

By establishing a new regulatory pathway, the act seeks to level the playing field for US farmers and ranchers by providing access to these technologies. Global competitors in Europe, Asia, and South America already have approved and available products in this category, and the Innovative FEED Act aims to enable US producers to remain competitive.

## **Livetec Systems App: Empowering Early Detection and Management of Avian Influenza Outbreaks in UK Poultry Farms**

The Livetec Systems App is a newly launched mobile app designed by Livetec,

a biosecurity company, to assist poultry farmers and backyard keepers in combating the spread of avian influenza in the UK. The app aims to enable early detection and efficient management of the disease to protect livestock.

Key features of the Livetec Systems App include:

**Real-time outbreak notifications:** The app sends immediate alerts to farmers located within identified outbreak zones, providing guidance on necessary preventive measures to protect their flocks.

**Outbreak reporting tool:** Poultry keepers can quickly and compliantly report suspicious symptoms within their flocks to the relevant authorities using the built-in reporting tool. This helps prevent further spread of the disease.

**Disease outbreak monitoring:** The app offers an in-app interactive map that displays the national outbreak status throughout the UK. Users can easily locate their property, assess its proximity to current outbreaks and surrounding zones, and proactively remain vigilant.

Livetec Systems emphasizes the importance of preparedness in protecting poultry. The app aims to help farmers and backyard keepers avoid unnecessary expenses, prevent disease outbreaks, and safeguard their birds, revenue streams, and reputation. Avian influenza has become increasingly challenging to control, with cases extending beyond the traditional window, making effective disease management crucial.

The app combines Livetec's extensive knowledge of avian influenza with contemporary technology, integrating real-world experience with a user-friendly interface to support farmers in their day-to-day activities.

## **Belarus and Russia's Agriculture Alliance Gains Momentum: Fresh Impetus from Uniform Agrarian Policy Program**

According to Agriculture and Food

Minister Igor Brylo, the program to develop a uniform agricultural policy between Belarus and Russia is strengthening cooperation between the two countries. Speaking at the 10th Forum of Regions of Belarus and Russia in Ufa, Brylo highlighted the growth in trade in food products between the two countries, which has increased by more than 50% since the first forum in 2014. Food supply contracts worth about RUB26 billion were signed in preparation for this year's forum. The trade relationship extends beyond traditional goods and includes high-tech products such as seeds, planting material, breeding stock, plant protection products, veterinary drugs, and feed additives.

Brylo also emphasized the collaboration between Belarusian and Russian universities. Four Belarusian universities and universities in Russia have signed 211 cooperation agreements in education and science. Over the past three years, the number of agreements has increased, and more than 500 joint events have been held for teachers, graduate students, and postgraduate students. Belarusian universities under the Ministry of Agriculture and Food offer advanced training programs, internships, and retraining courses for various personnel in the agricultural sector.

Furthermore, Belarusian State Agrarian Technical University, in partnership with the Russian Academy of Personnel Support for the Agro-Industrial Complex, is completing a Union State project aimed at developing and improving professional training courses for managers and specialists in the agro-industrial complex. The project utilizes a single innovative educational and scientific platform and is designed to prepare individuals to work in conditions involving sanctions and import substitution.

The joint program to develop a uniform agrarian policy of the Union State is expected to further enhance cooperation between Belarus and Russia. This program will provide a framework for promoting interaction and collaboration in the agricultural sector.

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# EGG

## Daily and Monthly

### Prices of June 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	Average	
<b>NECC SUGGESTED EGG PRICES</b>																																
Ahmedabad	510	515	520	520	520	520	520	520	520	520	520	520	520	520	525	530	535	537	540	540	540	544	547	547	547	550	552	555	555	555	555	532.13
Ajmer	472	472	472	455	455	455	455	455	455	450	450	450	460	463	465	465	465	467	467	467	467	470	470	475	480	487	492	492	492	492	467.73	
Barwala	472	472	472	450	452	452	452	452	452	452	452	452	454	458	461	461	461	463	463	463	463	467	467	467	467	467	467	469	471	473	461.47	
Bengaluru (CC)	550	555	560	565	565	565	565	565	565	565	565	565	565	565	570	575	580	585	590	595	600	600	600	600	600	600	600	600	600	600	579.17	
Brahmapur (OD)	527	532	532	532	532	532	512	512	512	482	482	490	493	498	508	518	518	528	533	538	543	548	548	548	548	548	548	548	548	553	553	526.53
Chennai (CC)	560	560	570	570	580	580	580	580	580	580	580	580	580	580	580	580	590	590	600	600	610	610	610	610	610	610	610	610	610	610	590.00	
Chittoor	553	553	563	563	573	573	573	573	573	573	573	573	573	573	573	573	583	583	593	593	603	603	603	603	603	603	603	603	603	603	583.00	
Delhi (CC)	489	489	491	491	469	469	469	469	469	469	469	465	465	465	472	481	483	483	483	483	483	483	483	486	486	486	486	486	490	490	479.97	
E. Godavari	510	515	515	515	515	515	515	495	495	465	465	470	475	480	490	500	500	510	515	520	525	530	530	530	530	530	530	530	535	535	509.50	
Hospet	510	515	520	525	525	525	525	525	525	525	525	525	525	525	530	535	540	545	550	555	560	560	560	560	560	560	560	560	560	560	539.17	
Hyderabad	485	490	495	500	500	500	500	500	500	500	500	500	500	505	510	515	520	525	530	535	540	540	540	540	540	540	540	540	540	540	517.00	
Jabalpur	503	506	506	506	506	506	500	506	506	490	490	490	500	505	505	505	505	505	505	507	507	507	515	515	518	530	540	550	555	555	511.47	
Kolkata (WB)	580	580	540	540	530	535	555	555	535	530	530	532	532	552	552	552	552	572	572	587	587	600	600	600	600	600	600	600	600	600	565.00	
Ludhiana	468	471	471	471	460	460	460	450	450	450	440	440	448	450	457	458	458	458	460	460	460	460	467	467	467	467	467	467	469	472	460.10	
Mumbai (CC)	540	545	555	560	565	565	565	565	565	565	565	565	565	565	565	570	575	580	585	590	595	600	605	605	605	605	605	605	605	605	579.67	
Mysuru	555	562	567	572	572	572	572	572	572	572	572	572	572	572	575	580	585	590	595	601	603	603	603	603	603	603	603	603	603	603	584.40	
Namakkal	500	505	510	515	515	515	515	515	515	515	515	515	515	515	520	525	530	535	540	545	550	550	550	550	550	550	550	550	550	550	529.17	
Pune	540	545	555	555	560	560	560	560	560	560	560	560	560	560	565	570	575	580	585	590	595	601	601	601	601	601	603	605	605	605	575.93	
Raipur	505	505	505	490	490	490	492	494	495	495	496	497	503	510	520	522	522	522	523	524	525	530	530	530	530	532	537	542	545	548	514.97	
Surat	530	535	540	540	540	540	540	540	540	540	540	540	540	545	550	555	560	560	560	560	560	560	560	565	565	565	565	565	565	565	551.17	
Vijayawada	510	515	515	515	515	515	515	495	495	465	465	470	475	480	490	500	500	510	515	520	525	530	530	530	530	530	530	530	535	535	509.50	
Vizag	510	515	515	515	515	515	515	515	515	515	515	515	515	515	525	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	532.67	
W. Godavari	510	515	515	515	515	515	515	495	495	465	465	470	475	480	490	500	500	510	515	520	525	530	530	530	530	530	530	530	535	535	509.50	
Warangal	487	492	497	502	502	502	502	502	502	502	502	502	502	507	512	517	522	527	532	537	542	542	542	542	542	542	542	542	542	519.00		
<b>Prevailing Prices</b>																																
Allahabad (CC)	519	524	524	524	514	514	514	519	524	524	519	514	510	510	510	514	514	514	514	519	519	524	524	524	524	524	524	533	540	538	520.40	
Bhopal	490	490	480	480	480	480	480	480	480	480	480	480	480	485	500	505	505	505	505	505	505	505	505	510	510	530	530	530	535	540	545	500.33
Indore (CC)	500	500	500	490	485	485	485	485	485	480	480	480	490	490	495	495	495	495	495	495	495	500	500	500	515	520	525	525	525	525	497.83	
Kanpur (CC)	500	500	500	500	500	490	490	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	499.33	
Luknow (CC)	523	523	523	523	523	523	523	533	533	533	533	523	533	533	533	533	533	533	533	523	523	523	523	523	523	523	533	533	533	533	528.33	
Muzaffurpur (CC)	532	540	535	520	520	520	520	520	515	505	505	512	515	518	525	525	525	525	528	528	528	530	530	530	530	530	532	532	535	535	524.83	
Nagpur	515	515	515	515	510	505	505	510	510	510	510	500	525	530	550	550	550	550	550	550	560	560	565	565	565	565	565	570	570	580	580	537.17
Patna	532	540	535	520	520	520	520	520	515	505	505	512	515	518	525	525	525	525	528	528	528	530	530	530	530	530	532	532	535	535	524.83	
Ranchi (CC)	543	543	543	543	543	533	524	524	524	524	514	514	514	524	524	524	524	524	524	524	524	529	529	529	524	524	524	533	543	553	528.87	
Varanasi (CC)	523	530	530	530	523	523	523	517	517	517	510	510	510	517	517	517	517	517	517	517	523	523	530	533	533	533	533	533	540	540	523.97	

# Editorial Calendar 2023

Publishing Month:  
**January**  
Article Deadline :  
**28<sup>th</sup>, Dec. 2022**  
Advertising Deadline :  
**30<sup>th</sup>, Dec. 2022**  
Focus :  
**Winter Disease Management**

Publishing Month:  
**February**  
Article Deadline :  
**28<sup>th</sup>, Jan. 2023**  
Advertising Deadline :  
**30<sup>th</sup>, Jan. 2023**  
Focus :  
**Health & Nutrition Management**

Publishing Month:  
**March**  
Article Deadline :  
**26<sup>th</sup>, Feb. 2023**  
Advertising Deadline :  
**28<sup>th</sup>, Feb. 2023**  
Focus :  
**Vaccination & Immunization**

Publishing Month:  
**April**  
Article Deadline :  
**28<sup>th</sup>, March 2023**  
Advertising Deadline :  
**30<sup>th</sup>, March 2023**  
Focus :  
**Summer Management**

Publishing Month:  
**May**  
Article Deadline :  
**28<sup>th</sup>, April 2023**  
Advertising Deadline :  
**30<sup>th</sup>, April 2023**  
Focus :  
**Cold Chain Management**

Publishing Month:  
**June**  
Article Deadline :  
**28<sup>th</sup>, May 2023**  
Advertising Deadline :  
**30<sup>th</sup>, May 2023**  
Focus :  
**Feed Production**

Publishing Month:  
**July**  
Article Deadline :  
**28<sup>th</sup>, June 2023**  
Advertising Deadline :  
**30<sup>th</sup>, June 2023**  
Focus :  
**Layer Farming**

Publishing Month:  
**August**  
Article Deadline :  
**28<sup>th</sup>, July 2023**  
Advertising Deadline :  
**30<sup>th</sup>, July 2023**  
Focus :  
**Genetics & Breeding**

Publishing Month:  
**September**  
Article Deadline :  
**28<sup>th</sup>, August 2023**  
Advertising Deadline :  
**30<sup>th</sup>, August 2023**  
Focus :  
**Biosecurity Practices**

Publishing Month:  
**October**  
Article Deadline :  
**28<sup>th</sup>, September 2023**  
Advertising Deadline :  
**30<sup>th</sup>, September 2023**  
Focus :  
**Winter Breeding Management**

Publishing Month:  
**November**  
Article Deadline :  
**28<sup>th</sup>, October 2023**  
Advertising Deadline :  
**30<sup>th</sup>, October 2023**  
Focus :  
**Environment Control**

Publishing Month:  
**December**  
Article Deadline :  
**28<sup>th</sup>, November 2023**  
Advertising Deadline :  
**30<sup>th</sup>, November 2023**  
Focus :  
**Industry Outlook**

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Front Gate Fold	45000 <input type="checkbox"/>	Back Gate Fold	30000 <input type="checkbox"/>
Front Title Inside	30000 <input type="checkbox"/>	Back Title Inside	25000 <input type="checkbox"/>
Front Title Opening	25000 <input type="checkbox"/>	Back Title Opening	20000 <input type="checkbox"/>
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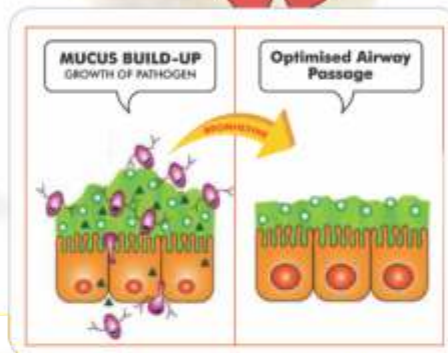


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