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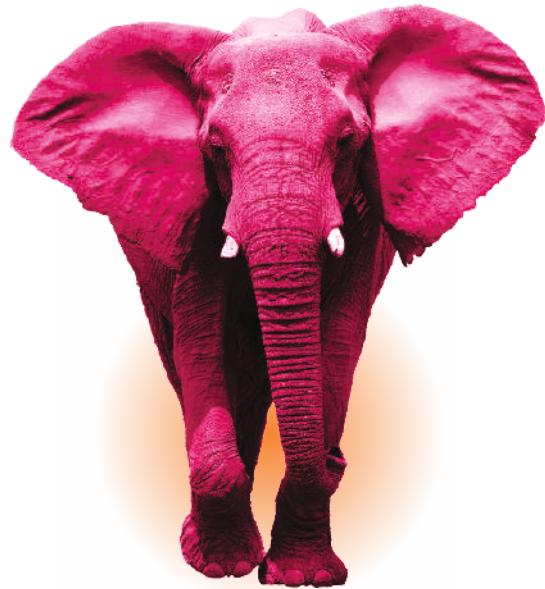
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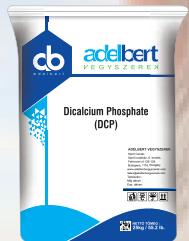
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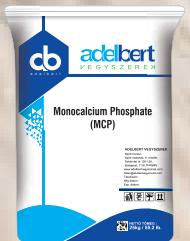


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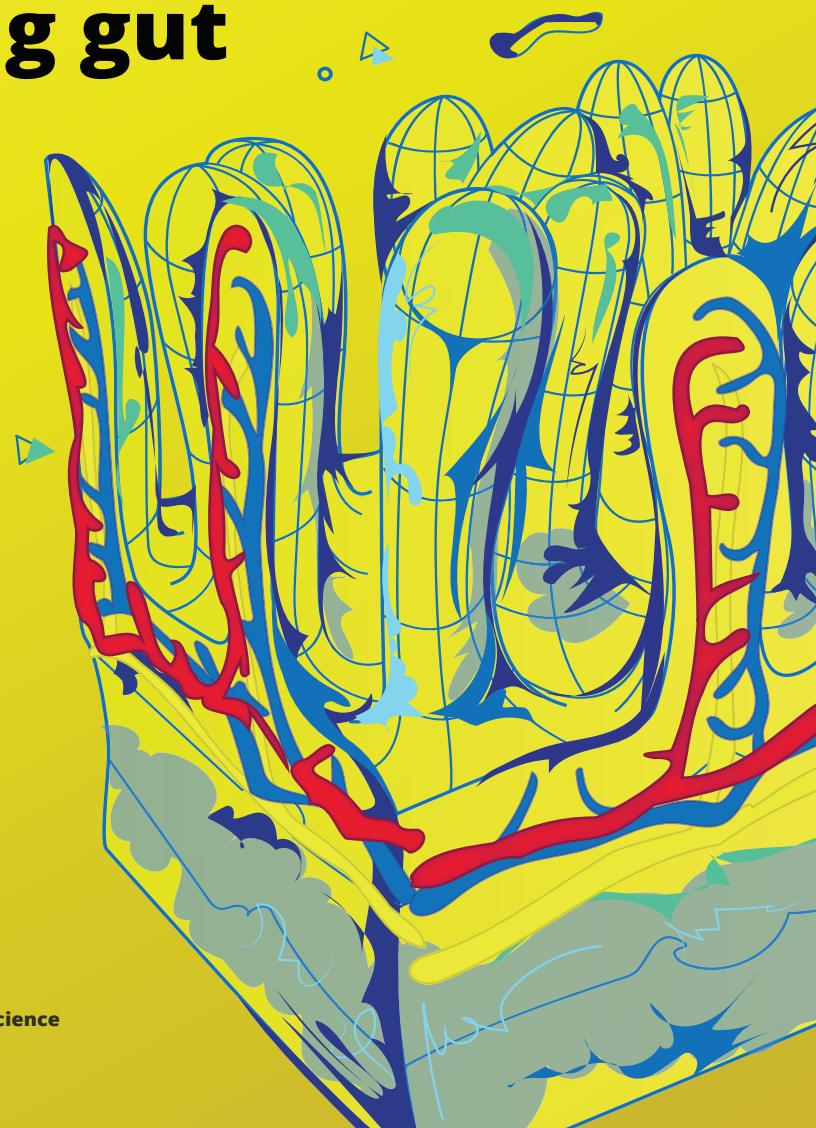
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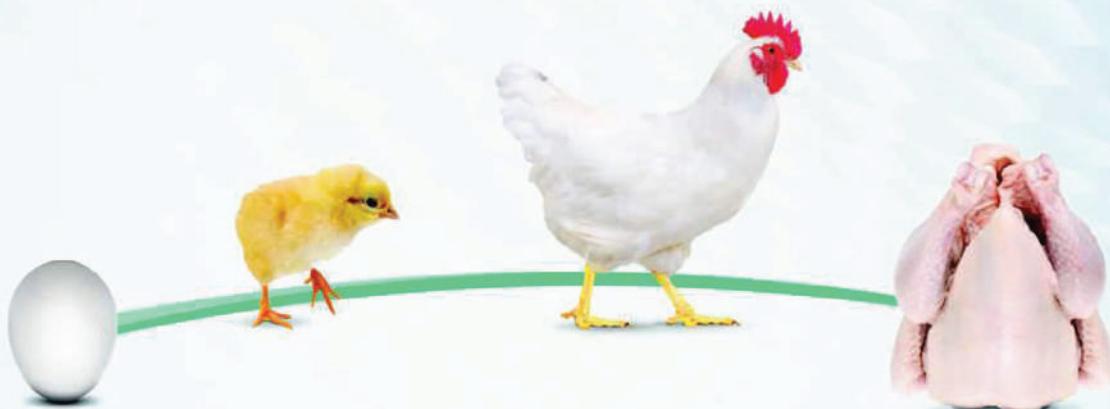


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## SDP-INDIA

Systematic Destruction Plan - this is what appears to be implemented in India since its independence 75 years ago. Divide India by language, religion, caste and Creed has been the Moto of the British. The momentum seems to have been continued with the governments following similar policy of divide & rule.

There are scores of laws and amendments, particularly targeted at the majority in the past several decades. India now opens its eyes to strange phenomena where a majority, peace, loving community is systematically, subject to division and destruction as appears to be a planned agenda. How amusing, if in a democracy, community majority has to complain of abuse and victimization. The international media, along with domestic partners, do not lose an opportunity to show India in a low light, and completely wrong picture all these years.

"A pack of wolves led by a lion is preferred to a pack of lions led by a wolf"- leadership is the key in a nation. The weak opposition in Indian politics is enabling the BJP to rise in strength without a quality challenge. For a stronger and better functioning in democracy - a good and strong opposition is a key.

All blatant laws and amendments with the sole aim of divide and rule suppression must be subject to re-examination in the interest of preserving the nation, and not converting it into another.

The point worth noting is that the religious conversions are no more religious, but an highly organized commercial operation, where huge funds flow from across borders under such organizations and NGOs to carry out a different activity altogether. A deeper investigation will expose how these organizations evade huge taxes, and use the money to buy lands and run businesses Under the garb of religious institutions. The government rightfully are investigating such transfers to get to the actual truth.

The Neo converts are known to be hyper in their behavior, which is common human observation . No religion can deviate from being human and express love for all God's creation. One must keenly observe as to what religion preachers and what does it actually practice.

The good news is that the egg prices have stabilized and it's high time. The farmers made some profits. The potential to earn more is still available to farmers by using genetically better quality laying hens and also not compromising on nutrition standards by maintaining quality feed and inputs. Good quality of feed additives, premixes, bio-security, water quality should never be compromised.

A strong India helps handle all it's neighbors appropriately be it Pakistan, Nepal, Bhutan, Bangladesh, Sri Lanka, or Maldives each one has been handled authoritatively to maintain peace. INDIA does extremely well in the international Arena to maintain its dignity and image has never been in the past.

The world fears, China but it's only India that tackles China with wisdom and strategy. China realizes it cannot bully INDIA and it will be suicidal for China to try any adventure of irritating INDIA. Of course it's a big ego prick for China to accept this reality.

Digital media and ease in availability of affordable mobile phone among the masses has helped bring awareness and facts to the masses, which is going to be the main tool in a revolution in Indian democracy!



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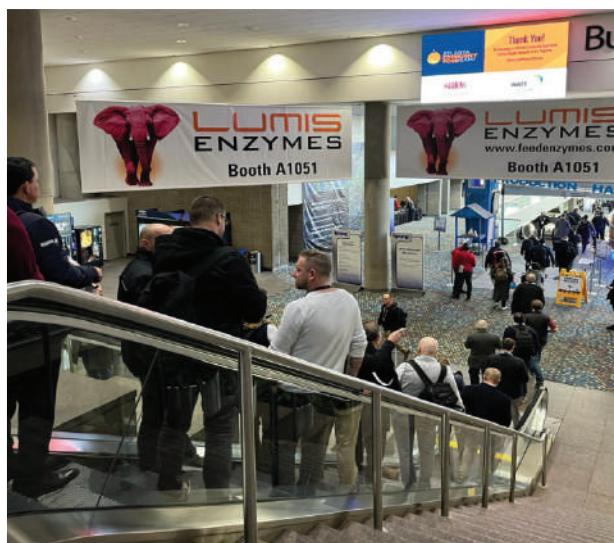


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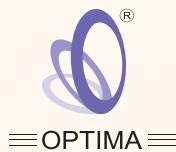


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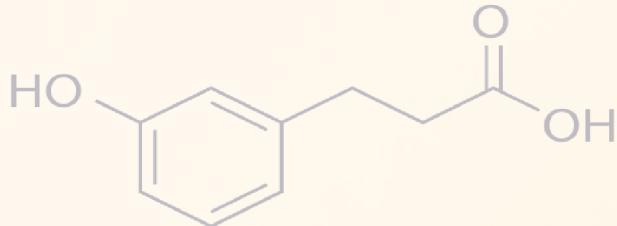
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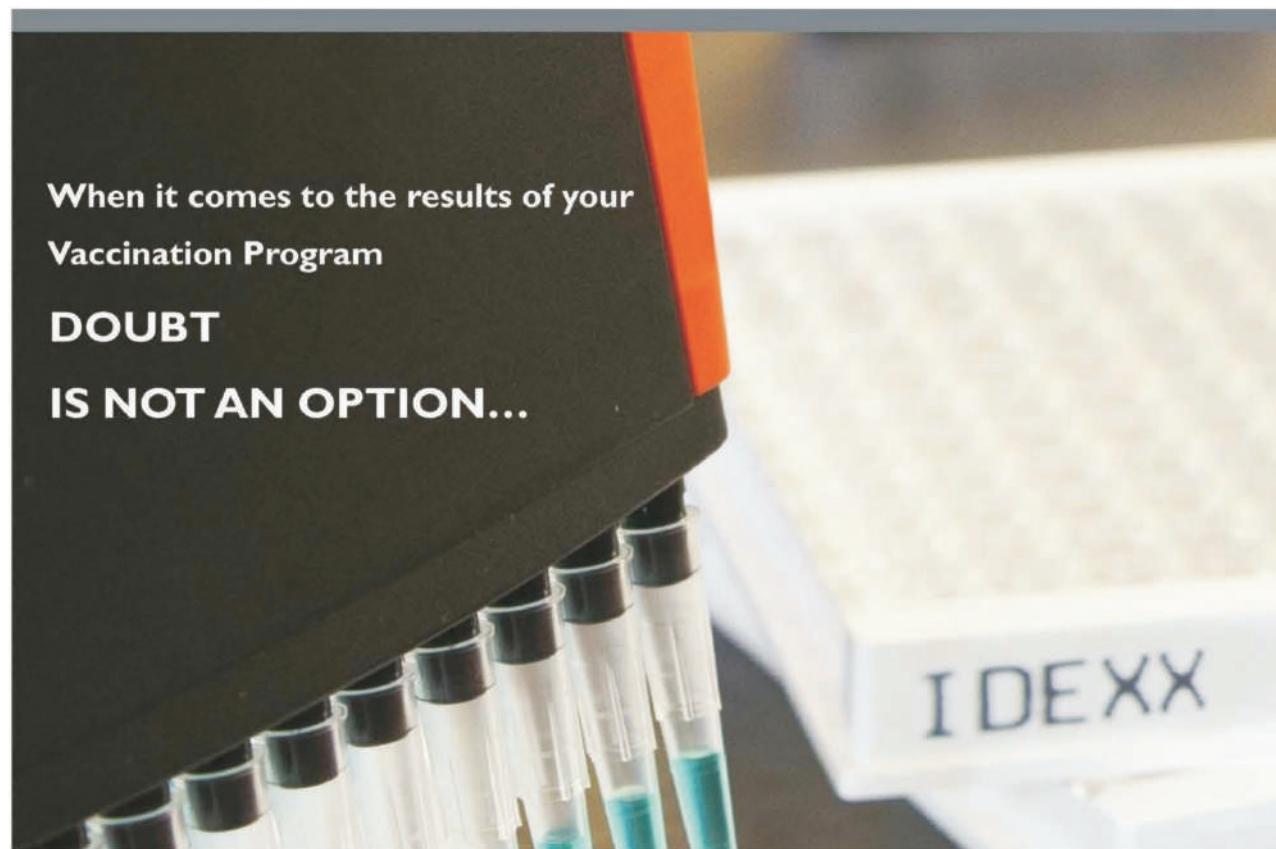
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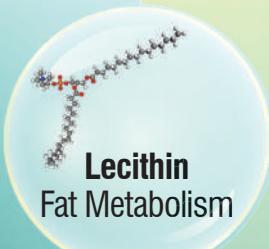
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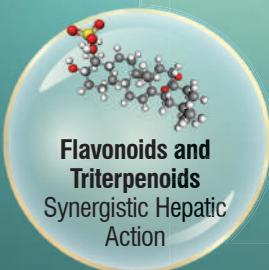


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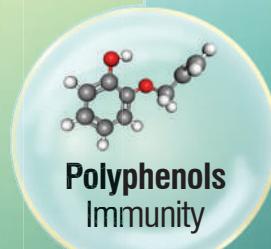
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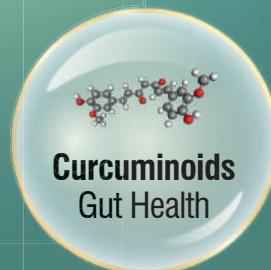
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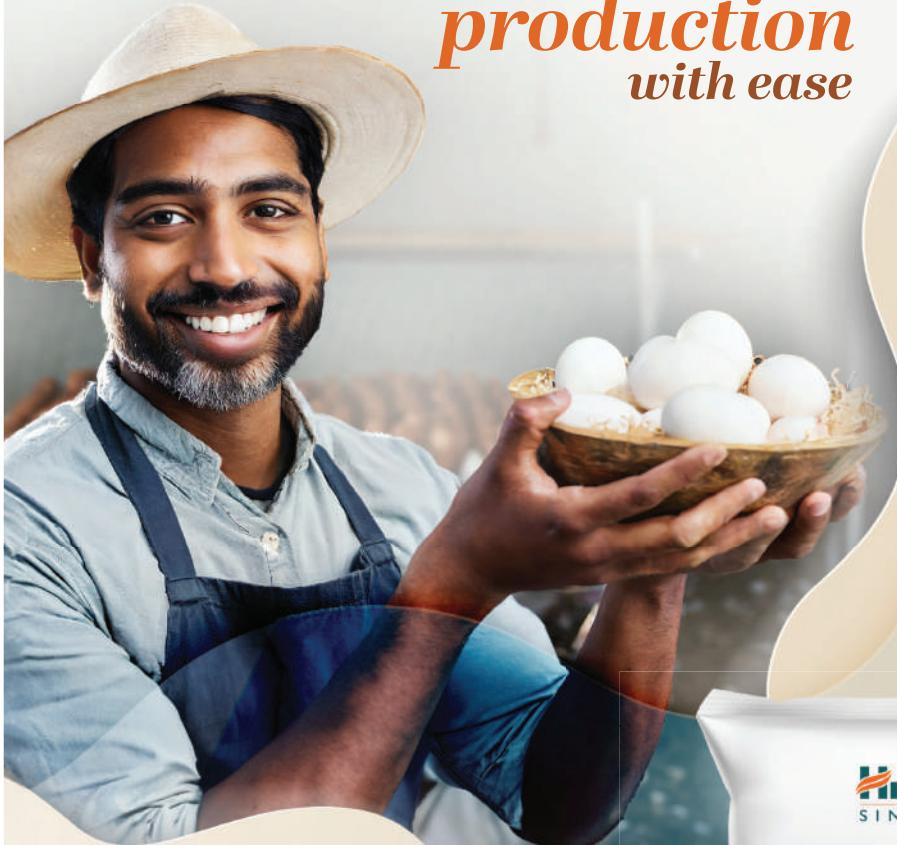
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# Specialty Eggs and Designer Eggs

T.S. Arun Veterinary surgeon, Animal husbandry department, Kerala  
Email- aruntskty@gmail.com

## Introduction

The negative perception related to the high cholesterol content in the egg is one of the major factors behind the rapid decline in the per capita consumption of eggs. In the industrialised world animal products contribute more than 60% of total lipids, 70% of saturated fats and 100% of cholesterol of the diet. Consumer preference for animal products will likely continue. Thus it would be of national strategic importance in the fight against heart disease to design/modify animal products in such a way that dietary risks are minimised. Several studies have demonstrated the fact that the consumption of relatively small amount of omega 3 fatty acids can reduce the coronary heart disease mortality. In an effort to meet consumer demand, egg producers have begun marketing vegetarian, organic, cage-free, free range, fertile, in shell pasteurised and nutrient enhanced speciality eggs. Due to higher production costs, speciality eggs are usually more expensive than generic shell eggs.



1. Organic eggs/vegetarian eggs:- These are the eggs produced by hens on chicken feeds containing only vegetable foods and no meat or sea food by-products. These tend to have an eggy flavour. Organic eggs are available from chickens provided feed grown without most conventional pesticides, fungicides, herbicides or commercial fertilizers. Consumers can be confident that all eggs are hormone free, whether or not they are labelled as such.

National organic standards also prohibit the use of antibiotics.

2. Cage free alternatives: - This label indicates that the flock was able to freely roam a building, room, or enclosed area with unlimited access to food and fresh water during their production cycle. Free range eggs come from hens that are either raised out-doors or have access to out-doors. Cage-free eggs come from hens living in indoor floor facilities. These hens do not have access to the outdoors.
3. Fertile eggs:- These eggs were laid by hens who lived with roosters, meaning they mostly were not caged. When there is an excess of hatching eggs in the poultry meat industry, eggs from broiler breeder flocks can be sold for human consumption. A large percentage of these eggs will be fertile. Fertilized eggs are safe to eat. There is no nutritional difference between fertilized and unfertilized eggs. The embryo does not develop in fertilized eggs that are refrigerated soon after laying.
4. Pasteurised shell eggs:- Pasteurised shell eggs are a very good choice for people who want to use raw eggs in recipes that do not require further cooking, such as ice creams or some salads. These eggs have been heat treated to kill potential salmonella bacteria inside. However, due to heat processing, these eggs may have slightly lower levels of heat sensitive vitamins.
5. Animal welfare approved eggs:- The birds are cage free and continuous out-door perching access is required. They must be able to perform natural behaviours such as nesting, perching and dust bathing.

## Designer eggs

Meeting consumer demand is a constant challenge for the animal food industry. Many consumers desire somewhat distinct products with respect to safety, healthfulness, freshness, taste, colour, etc. To tap into this market, companies have developed

several designer and speciality eggs which have appeared on store shelves. The nomenclature of such eggs may be confusing, and often misleading. The purpose of this factsheet is to discuss the types of "new" eggs currently on the market, their pros and cons, and some of the misconceptions held by consumers. The contents of the chicken egg can be changed in such ways as to be more healthful and appealing to consumers who are willing to pay for those changes in the egg. "Designer eggs" are those in which the content has been modified from the standard egg.

#### Modified Mineral contents

The shell contains majority of the minerals in the egg. There is approximately 2.2 gram of calcium and 20mg of phosphorus in the shell. There has been very little success in changing the calcium and phosphorus content of the albumen and yolk. It is possible, however, to increase the content of selenium, iodine and chromium. This has been done Designer and Specialty Eggs through dietary supplementation of the hen. These three minerals are important in human health.

#### Vitamin content

Vitamin A and vitamin E are receiving most interest as component of designer eggs. The vitamin content of the egg is variable and is somewhat dependent on the dietary concentration of any specific vitamin. In addition, the hen does not transfer different vitamins into the egg with equal efficiency. Because of this, the vitamin transfer efficiency and cost of the vitamin must be taken into consideration when determining the economic feasibility of marketing such eggs. Eggs higher in Vitamin E are currently available in stores.

#### Lowered cholesterol

In order for a company to claim a reduce amount of a nutrient the product must have 25 per cent less than the normal product standards for that nutrient. A large egg contains approximately 200 - 220 mg of cholesterol. Genetic selection of hens for lowered cholesterol has not been successful in lowering the egg cholesterol content. There have been claims that eggs from the Araucana chicken contain less cholesterol when compared to eggs of other breeds. Dozens of Araucana

eggs have been sold in health food stores for exorbitant prices promoting them as "health eggs." There is no scientific evidence to support this claim. There have been numerous well-designed scientific studies that have compared the cholesterol content of Araucana eggs to eggs from other breeds, especially the White Leghorn, a breed that dominates the American commercial egg market. In these comparisons the egg content was corrected for egg size. The Araucana eggs consistently contain higher concentrations of yolk cholesterol than White Leghorns. Egg cholesterol is found only in the yolk. Araucana chickens simply lay a smaller egg so that cholesterol content, on a per egg basis, is lower.

Research into lowering the egg cholesterol has centered mostly on dietary practices and pharmacological approach. Drugs have been successful in reducing the egg cholesterol content by as much as 50%. Drugs lower the cholesterol content in egg by either inhibiting the synthesis of cholesterol in the hen or by inhibiting the transfer of cholesterol from blood to the developing yolk. Chromium supplementation to laying hen diets at concentrations of less than 1 ppm have been shown to lower egg cholesterol and also improve egg interior quality. The most effective way to reduce cholesterol content in egg is to lower the energy consumption by the hen. The egg can be produced by feeding an all-vegetarian diet that is rich in protein and fibre and enriched with vitamin E.

#### Fat and fatty acid content

The fatty acid composition of yolk fat can readily be altered by diet. Different feeds, such as flaxseed (linseed), safflower oil, perilla oils, chia, marine algae, fish, fish oil, and vegetable oil have been added to chicken feeds to increase the omega-3 fatty acid content in the egg yolk. Omega-3 fatty acid-rich eggs may provide an alternative food source for enhancing consumer intake of these 'healthy' fatty acids. Evaluation of the eggs during storage indicates that the shelf life of the enriched eggs was comparable to that of typical eggs. Omega-3 fatty acid-enriched eggs taste and cook like any other chicken eggs available in the grocery store. However, they typically have a darker yellow yolk. one large egg can supply about

600mg of total omega 3 fatty acids equivalent to approximately 100 gram serving of fish.

#### Designer egg oil

An average egg also provides nearly 6g of lipids which are contained exclusively in the yolk. More than 66% of total yolk mass is fats and thus the yolk from PUFA-enriched eggs can be regarded as a potential oil crop rich in long chain polyunsaturated fatty acids, the both DHA and AA essential for infants. Conclusion

High cholesterol levels in the blood are a major cause of coronary heart disease and are considered an important causative factor in problems leading to obesity and hypertension. The recommended intake of cholesterol as per the international standards is 270 mg per day. Indian eggs have between 200 to 260 mg of cholesterol. Thus consuming even one egg leaves very little scope for maintaining the cholesterol balance when other food items are also consumed. Almost all non-vegetarian food items as well as

oils and ghee contain cholesterol although in lower quantities than in eggs. Consumption of cholesterol free eggs can be a very good alternative for this problem of cholesterol content. Moreover change in consumer preferences also signifies the demand for these smart eggs. In this aspect, designer eggs with new functional properties are highly demanding, however, still there is lack of knowhow for their commercial production.

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# SYLON GROUP Participation in KOLKATA INTERNATIONAL POULTRY FAIR, 2024



SYLON BIO PHARMA PVT LTD is a leading company in Animal health care having 18 years of dedicated service to the poultry fraternity.

SYLON BIO PHARMA with its sister concerns AVIAN LIFE SCIENCES PVT LTD & FAUNA REMEDIES INC together participated and made a significant impact in Kolkata International Poultry Fair held at Eco park, Kolkata on 7th,8th & 9th Feb,2024. The exhibition provided an excellent platform to show its innovative product range right from Antibiotics, Feed supplements and even the entire range of Anti-coccidials and other liquid vitamin preparations.

SYLON booth at the exhibition attracted large number of visitors including Poultry Farmers and Veterinarians and Industry professionals. The company provided detailed information regarding their products.

Overall the participation in the exhibition not only updated the companies profile and delivering value to the animal feed sector and with able guidance of Mr. K. K. DWIVEDI Zonal Sales Manager(East) and Mr. N D CHOWDHURY Regional Manager(East) and his team had cordially welcomes all the delegates to the booth and updated them with all company's updates and narrated about their innovative products which company is having in Mycoplasma ,Gut therapeutics and Anti-Coccidials range.

SYLON Group of companies Managing Director Mr. S. SHYAM SUNDER and Chairman Mrs. S. MAHALAKSHMI expresses their gratitude to all the visitors who had visited their booth and made a grand success in Kolkata Poultry Fair, 2024.



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## Outlook 2024 Quote on How the industry has changed over the years. What are the new trends experienced and the changes faced?

- Mr. Rahul Kapur,

Managing Director & Chairman, Avitech Nutrition.



"The global Animal Nutrition market is anticipated to rise considerably, expected to reach a value of USD 739.87 million by 2029, with a CAGR of 5.50% during the forecast period from 2023 to 2030. The India Compound Feed Market size is expected to grow from USD 25.66 billion in 2023 to USD 34.50 billion by 2028, at a CAGR of 6.10% during the forecast period from 2023 to 2028.

Today, the Feed and Animal Nutrition market in India is increasingly driven by performance. The poultry industry navigates a competitive landscape marked by integration and consolidation, particularly within the broiler sector. In the poultry sector, the delicate and often unremunerative challenge of low-end product rates and high ingredient prices propels a quest for remunerative prices over commodity rates.

This quest unfolds through vigorous branding initiatives, with safety as a pivot, urging a shift from antibiotics to phytogenic micro-ingredients in feed. The increasingly organized approach to milk production emphasises increased output, driving greater usage of concentrates and feeds.

The shrimp sector grapples with fierce competition emanating from Ecuador in export markets, prompting strategic integration and consolidation efforts to enhance competitiveness.

Meanwhile, novel ingredients like Black Soldier Fly meal aspire to fulfil protein requirements in the feed sector, though commercial viability remains an ongoing pursuit. In the ever-evolving landscape of the egg sector, a shift in the willingness to procure feed rather than self-manufacture is observed.

Micro ingredients are emerging as pivotal elements, steadily enhancing efficiency, and controlling production costs. As the industry adapts, innovation and strategic shifts become the lynchpin for sustained success in the dynamic market. With a burgeoning middle class and rising levels of disposable income, the appetite for milk, eggs, and meat is set to grow exponentially over the next decade. In time a steady transition from live to processed meat is anticipated. This shift reflects changing consumer preferences but also signals the commencement of large investments in the processing sector."



## Pressemitteilung

Press release · Communiqué de presse

Organic energy worldwide

Vechta, February 2024

### **WELTEC BIOPOWER develops new, intuitive user interface for biogas plant control systems**

#### **WB Control: Comprehensive monitoring of the entire biogas plant for optimum performance**

The biogas plant control system from WELTEC BIOPOWER is receiving a general update: This includes new functionalities for process optimization as well as a user interface that provides a quick and comprehensive overview of the entire plant thanks to a symbolism designed according to the latest findings and clarity in the display. The control system sections previously known as LoMos and CeMos will also merge under the new name WB Control in future. WB Control can be used for both small and complex industrial systems.

The web-based software gives operators complete and fast access to all important system parameters. A customizable dashboard provides a quick overview of the most important process data at any time. Several users can access WB Control simultaneously.

The intuitive, logical navigation through the software offers maximum transparency and security for an efficient workflow. „The increased requirements of plant operators and investors for comprehensive and clear monitoring of plant data, especially for continuous process optimization, were the guiding principle for us when designing the modern control system,“ emphasizes Wolfgang Bokern, Head of Technology at WELTEC BIOPOWER.

Diagrams and reports can be created individually according to defined values and summarized into daily, monthly or annual overviews at the click of a mouse. Optimum energy planning to avoid peak loads is achieved, for example, through overviews of the agitator intervals. This allows agitators to be controlled individually.

The new user interface enables a wide range of business evaluation options, such as trend analyses and other graphical evaluations of individually defined values such as consumption data or production figures. Thanks to the archiving and export functions, all data is available at any time as proof for authorities, banks and external experts.

Newly integrated functions such as FellowFeed and GuidoFill simplify the feeding process and make everyday work easier. FellowFeed measures the target filling level of the gas and automatically adjusts the feeding quantities if required. GuidoFill provides operators with a tool that supports the correct filling of their solid matter feeders with a mixture of input materials. On the basis of job lists, pumping and feeding processes can be precisely timed and displayed using the filter function. Overviews of gas management and water distribution allow other material flows in the system to be monitored.

Individually configurable alarm management informs users immediately in the event of system malfunctions. This allows the operator to react quickly and the WELTEC BIOPOWER service team can connect to the control system at any time via remote control to resolve any malfunctions that arise.



## Pressemitteilung

Press release · Communiqué de presse



Organic energy worldwide

### *The advantages of WB Control at a glance :*

- Easier feeding processes thanks to FellowFeed and GuidoFill
- Clear display of processes for the entire system
- Short click paths, thus saving time in day-to-day work
- Wide range of business evaluation options
- Exportable reports as proof for authorities, banks and experts
- Energy planning and avoidance of peak loads thanks to a graphical overview of the stirring intervals
- Alerting according to prioritization
- Intuitive user interface, tooltips
- Integrable into other systems
- Web-based use on mobile devices
- User management with rights assignment and simultaneous access

## Pictures/Captions



*The biogas plant control system from WELTEC BIOPOWER is receiving a general update: This includes new functionalities for process optimization as well as a user interface that provides a quick and comprehensive overview of the entire plant thanks to a symbolism designed according to the latest findings and clarity in the display.*



*WB Control: Comprehensive monitoring of the entire biogas plant for optimum performance, as here at a plant in the Czech Republic.*

### *More informations about WB Control:*

<https://www.weltec-biopower.com/anlagenbau-technologie/technologie/wbcontrol.html>

## Next Page: Company Portrait

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## Pressemitteilung

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### Company Portrait

Since its foundation in 2001, the **WELTEC** group of companies from Vechta in Lower Saxony has developed into one of the world's leading specialists for the construction and operation of biogas and biomethane plants. The Group covers the entire biogas value chain with the design, planning, and construction of energy plants, permanent and temporary plant operation, 24/7 service, and sustainable utilization concepts for output streams.

One of **WELTEC BIOPOWER**'s strengths is the construction of individual, technically sophisticated solutions up to a plant size of ten megawatts. A central element here is the high proportion of components developed in-house. Stainless steel technologies also ensure flexible substrate use, fast assembly with low effort, and a consistently high-quality standard regardless of location. After commissioning, **WELTEC**'s mechanical and biological service significantly ensures economic efficiency.

The company has just as much experience in the field of biogas production and utilization. At ten of its sites the plants produce biogas. Some of this is processed into biomethane and made available to energy suppliers and filling station operators throughout Germany via the public gas network. Furthermore, at 16 locations, municipalities and companies, such as those in the gardening, housing, and healthcare sectors, are supplied with decentralized heat as part of **WELTEC**'s energy contracting.

Proximity to customers and investors is an important concern for the biogas specialist, which is why the Group is represented worldwide with its sales and service network. Customers include companies from the waste and food industries, agriculture, and the wastewater sector. The **WELTEC** Group and its 164 employees have implemented over 350 energy plants in more than 25 countries on five continents. The biogas specialist thus ensures annual savings of around 600,000 tons of CO<sub>2</sub>eq.

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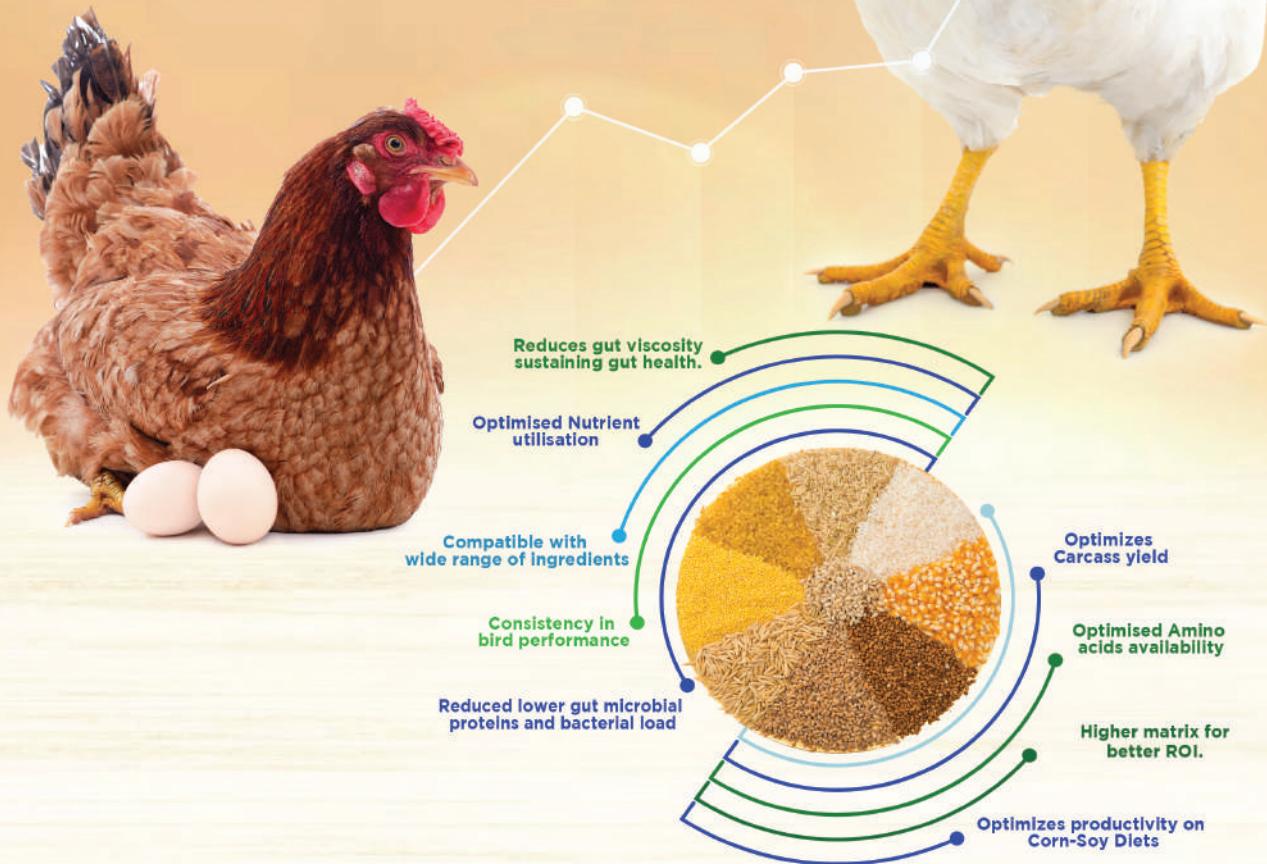
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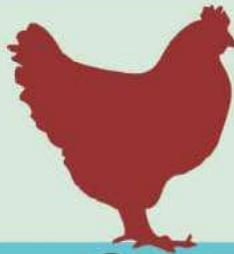
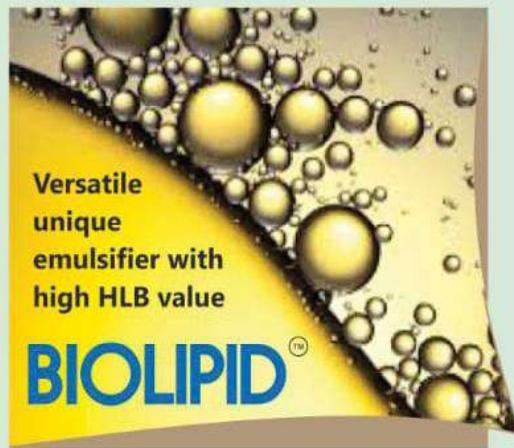
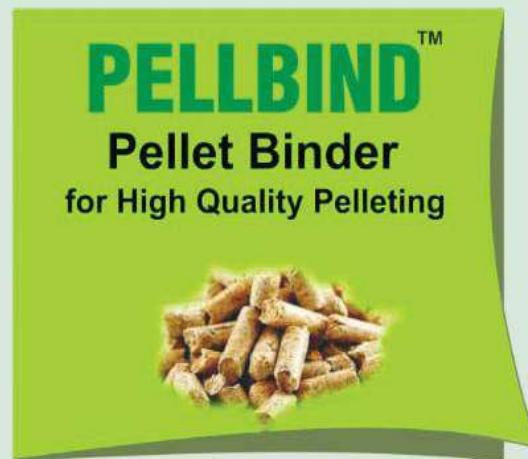
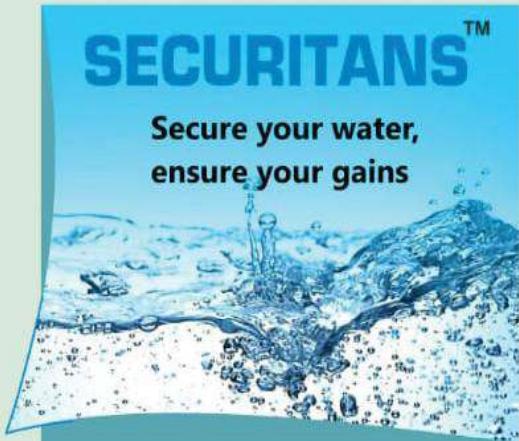
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| Weeks Above 90%             | 42       |
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| % Achievement               | 91%      |
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Mr. Santosh Patil

|                             |          |
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# How to Boost Egg Production in Layers

Suraj Amrutkar<sup>1</sup>, Suhas Amrutkar<sup>2</sup>, Bharti Deshmukh<sup>3</sup>, Vinod Gupta<sup>4</sup> and S. K. Gupta<sup>5</sup>

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2. SMS, Animal Nutrition, Parbhani Veterinary College, Parbhani, MAFSU
3. Assistant Professor, AGB Division, GADVASU, Ludhiana
4. Senior Scientist & Head, KVK Samba, SKUAST-J
5. Director Extension, SKUAST-J

## Introduction:

Layers are egg type chicken and are reared for obtaining eggs. Layers are sexed at day old age. The layer type females start laying eggs after 20 weeks of age and continue to lay at economically higher rate up to upcoming one year (52 weeks) of age. Hence, the layers are reared at the farm premises from day-old to 72 weeks of age (0-72 weeks). Some commercial layer strain chicks available in India are BV-300, Bovans, etc. Layer type chicken requires the various nutrients and different management practices at different ages and that's why; they are classified into three distinct phases such as brooders (0-8weeks), growers (9-20 weeks) and layer (21-72weeks). India has 3rd rank in egg production in world. India produces about 90 billion eggs annually, with Tamilnadu, Andhra Pradesh, Telangana, West Bengal and Haryana producing the bulk of them.

## Layer Management:

Grower chicken birds are transferred to layer houses at the end of 18th week itself after development and dipping and protective vaccination against Ranikhet disease. Layers can be reared on deep litter and the litter material has to be provided to 12-15 cm height. A floor space allowance of 2 sq. ft. (1800 cm<sup>2</sup>) per bird has to be provided. Circular or linear feeders may be provided with feeder space allowance of 10-12 cm per bird. A linear feeder of 180 cm length and 10 cm depth will sufficient for 35 layer birds; adlibitum free supply of feed at all times has to be ensured. Nest boxes made of G.I. or aluminium sheets may be provided at 45cm height (one for every three to five birds). The layers have to be trained to get into the nest box for laying eggs because eggs laid on the floor have higher chance of breakage. The mouth off the nest box should be of 30 cm width with a depth of 20 cm. and some litter materials may be spread inside the nest boxes.

## Selecting Pullets for egg production:

Pullets are transfer from growing to laying house just prior to sexual maturity, or whether they remain in the same house, some selection should be made at this time to remove the inferior birds. If they are not moved, cull the inferior birds by catching them with a hook. The pullets must be culled that are runty, blind, crippled, injured, emaciated and diseased.

## Floor Space Requirement for layers:

The floor may be either dirt or concrete; when it is to be covered with litter. Concrete certainly has its advantages and it is to be recommended where the soil is not porous or sandy, or if it does not have good drainage facility. Concrete floors are easier to keep clean and maintain. Floors may also be slat and litter, wire and litter, all slat or all wire. The larger birds require more floor space than smaller or medium. The type of floor also affects requirement of the space. Layers on slats or wire require less space than those on a litter floor because of the separation of the birds from their droppings. The present tendency is to house layers in larger groups and for best results the pens should be constructed to hold a maximum of 1000 layers. However, extremely large populations also have disadvantages and limitations.

Table1. Floor space requirement for layers

| Type of floor | Mini Leghorn | Standard Leghorn |
|---------------|--------------|------------------|
| Medium Size   |              |                  |

|                 | ft <sup>2</sup> | ft <sup>2</sup> | ft <sup>2</sup> |
|-----------------|-----------------|-----------------|-----------------|
| Medium Size     |                 |                 |                 |
| All litter      | 1.25            | 1.50            | 1.75            |
| Slat and litter | 1.00            | 1.25            | 1.50            |
| Wire and litter | 1.00            | 1.25            | 1.50            |
| All slat        | 0.75            | 1.00            | 1.25            |
| All wire        | 0.75            | 1.00            | 1.25            |

## Light management:

It is a well known fact that light intensity, the length of the daily change produce biological responses associated with egg production. The responses are the result of increased activity and the anterior lobe of pituitary gland located at the base of the brain. Light stimulation causes the release of the follicle stimulating hormones (FSH) from the pituitary, which in turn causes an increase in the growth of the ovarian follicles. Upon reaching maturity, the ovum is released by the action of another hormonal secretion from the pituitary the Luteinizing hormones (LH). Duration of light depends upon the age of the chicken. Chicks can be exposed to 21-23 hrs of continuous light at one or two days of chick age and then reduced to 15-16 hrs of light until the birds are three weeks of age. Chicks have a very low fear response during their first three days of life and can be exposed to many environmental stimuli such as light and dark etc. At three weeks of age, reduce the hour of light to 10-12 hours. When target body weights are achieved start your stimulatory lighting programme. Jump to 13 hours and then add 15-30 minutes per week until 16 hours of light is reached. Light stimulation should continue until peak production is achieved. Two thumb rules exist for light facts:

- o Never increase the duration or intensity of light during the growing period
- o Never decrease the duration or intensity of light during the production period

#### Feeding management:

Nutrition of growers (8-20 weeks) is important as it influences their age at sexual maturity, size of the pullet eggs and overall performance of the birds in the layer house. It is desired to delay the sexual maturity of growing pullets to obtain uniform sized eggs and to avoid management problems. This is achieved by altering the lighting programme in the grower house and restricting the feed intake.

Table 2. Requirement of chicken feeds in different stages of layers

| Sr. No. | Characteristic                                               | Chick Period<br>(0-8 weeks) | Growing Period<br>(8-20 weeks) | Layer period<br>(20 weeks onwards) |
|---------|--------------------------------------------------------------|-----------------------------|--------------------------------|------------------------------------|
| 1       | <b>Moisture,</b><br>Percent by mass, Maximum                 | 11                          | 11                             | 11                                 |
| 2       | <b>Crude Protein</b><br>(N x 6.25), percent by mass, Minimum | 20                          | 16                             | 18                                 |
| 3       | <b>Crude Fiber,</b><br>Percent by mass, Maximum              | 7                           | 7                              | 8                                  |
| 4       | <b>Acid Insoluble Ash,</b><br>Percent by mass, Maximum       | 4                           | 4                              | 4                                  |
| 5       | <b>Salt (NaCl),</b><br>percent by mass, maximum              | 0.6                         | 0.6                            | 0.6                                |
| 6       | <b>Calcium (Ca),</b><br>percent by mass, Minimum             | 1                           | 1                              | 3                                  |
| 7       | <b>Available Phosphorus,</b><br>percent by mass, Minimum     | 0.5                         | 0.5                            | 0.5                                |
| 8       | <b>Lysine,</b><br>Percent by mass, Minimum                   | 0.9                         | 0.6                            | 0.65                               |
| 9       | <b>Methionine,</b><br>Percent by mass, Minimum               | 0.3                         | 0.25                           | 0.30                               |
| 10      | <b>Metabolizable energy,</b><br>(Kcal/kg), Minimum           | 2600                        | 2500                           | 2600                               |

#### Restricted Feeding:

Restricted feeding during the growing period (particularly in the age group of 12-20 weeks) means an actual reduction of nutrient intake below minimum requirement of birds. Feed intake is decreased either by limiting the feed offered to 85-90% of the normal feed intake or by diluting the conventional feed with fibrous materials of low density or following a skip a day feeding. In the skip a day feeding, feed is provided on the first day at 85-90 % level of the two days ration and on the second day, the birds are not given any feed and some whole grain may be spread on the litter. Feed restriction recommended until 21-22 weeks of age or up to 5% egg production level whichever comes first. Low protein and low lysine diets are able to delay sexual maturity than quantitative feed restriction. Pullet birds on restricted feeding require 5-10 days longer to reach sexual maturity. There is a reduction in the number of small eggs laid at the commencement of production.

#### Calcium for Layers:

Layer rations should be adequate in calcium and the recommended level of inclusion of calcium is 3.0 percent. A part of the dietary calcium may be fed as oyster shell or limestone chips for better egg

shell quality. The requirement for calcium is more in the afternoon since this is the time of the day that the egg would be in the shell gland. Since the birds capacity is retain calcium is limited, there is nothing to gain by feeding high levels of calcium in the ration or feeding large quantities of oyster shell or limestone at free choice.

#### Calcium for Egg shell formation:

A hen taking in 3.6 gm of calcium per day retains about 1.8 gm of calcium during the approximately 18 hours when feed is available. Since average egg contains about 2.0 to 2.2 gm of calcium, the hen receiving her total calcium from an all mash ration must withdraw approximately 0.2-0.4 gm of calcium from her bones during night when the eggs is still being calcified but no calcium is available from the feed. Egg shell quality may be improved by supplying the hen with dietary calcium per day. The dietary supply of calcium is met in the form of calcium carbonate in the all mash ration and the remaining in the form of oyster shell (large particle) at free choice. Absorbing calcium at the rate of 100 mg per hours for 24 hours, the hen should be able to retain 2.4 gm of calcium, slightly more than the 2.0-2.2 gm needed to make a good egg shell. Hence free choice calcium source is advocated. High producing hens may hold the egg in the uterus for a much shorter time than hens laying at lower rates. Oyster shell or calcite grit is needed much more in diets for high producing hens than those which retain the egg in the shell gland over a longer period of time. A level of 4% oyster shell together with 3.5 % pulverized limestone (total dietary calcium of about 3.5%) should insure maximum calcium absorption throughout 24 hours each day. Shell grit dissolves slowly in the acidic medium of proventriculus so that a continuous supply of calcium is provided to the intestine.

Check the following if any egg shell problems such as shell less eggs or thin shelled eggs is noticed in the layer form:

- o Check the calcium content of the diet
- o Check the layer shed temperature (Higher than normal temperature reduces the shell thickness)
- o Check the vitamins D3 level (a deficiency causes thin and rough shell with reduced egg production)

- o Check the health status because respiratory diseases may affect shell quality such as infectious bronchitis
- o Checked the age of the birds: Shell quality declines during the end of the production cycle.

#### Diet and egg size:

Egg size is largely dependent upon the level of dietary protein and level of linoleic acid. Higher intake of balanced protein produces larger eggs. So feeding higher levels of proteins at the onset of production will help to increase egg size more rapidly. A level of 1% linoleic acid in the diet is considered adequate quantities of egg size.

#### Phase Feeding during laying Phase:

Phase feeding refers to changes in the protein level of diet during the normal production cycle. Such changes are designed to regulate the intake of dietary protein to meet more closely the hens requirements at various stages of egg production. Since protein supplements are costlier, phase feeding programme is suggested to reduce feed cost and also to help maintain the egg size. The level of protein in layer rations may be reduced to 17% (on 90 % egg production), 16% (on 75 % egg production) and 15% (on 65-75% of egg production), by keeping the feed intake at 100 gm level per day per bird.

#### Economic Traits of layers:

- o Age at start of lay
- o Body weight at maturity
- o Egg number
- o Egg weight
- o Feed efficiency
- o Livability

#### Conclusion:

Egg production can be increased by improving feeding management, proper breeding selection of breed, proper housing management and proper lighting management. In layers life, there are three stages such as brooding stage, grower stage and layer stage. Every stage is important and has direct relation with production of egg. Hence there is need to take proper care of each and every stage of laying birds.

## Leadership Announcements at Cargill Animal Nutrition & Health, South Asia

Cargill announces appointment of Mr. Ravinder Balain as the new Managing Director for Cargill Animal Nutrition & Health, South Asia, based in Bangalore.

Ravi is an experienced leader with extensive agri-business and international market experience. For more than 30 years, he has served in the agriculture industry – most recently leading the South Asia business in Corteva Agrisciences. Throughout his career, he has managed diverse and challenging assignments in India, ASEAN (Association of Southeast Asian Nations), Asia Pacific, North America, Latin America & Europe, and has achieved a proven record of building valuable business opportunities and driving strong results.



Cargill also announces the appointment of Dr. E. Balamurugan as new Commercial Director – Poultry ANH, India, based in Bangalore.

### Commitment to Customer First from Ravinder Balain

**“Our customers face a wide range of challenges in today’s dynamic business landscape. We, at Cargill India, believe that your success is ours and we go beyond providing the highest quality ingredients. To support your growth journey, we work with you as trusted advisors, tailor solutions and share expertise. This philosophy is not only good for business, but also the foundation of everything that we do!”**

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Dr. Balamurugan with over 23 years of industry experience in sales and marketing, has played a pivotal role and successfully deployed various strategies across the country for poultry business.



Cargill is excited to have Mr. Ravinder Balain and Dr. E. Balamurugan taking over their new role. Both bring rich industry experience, proven expertise & boast deep understanding of our customer base and a passion for driving growth. Their collaborative spirit and dedication to fostering strong customer relationships will be instrumental in propelling Cargill Animal Nutrition & Health to new heights.



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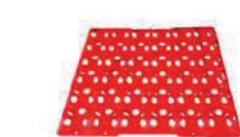
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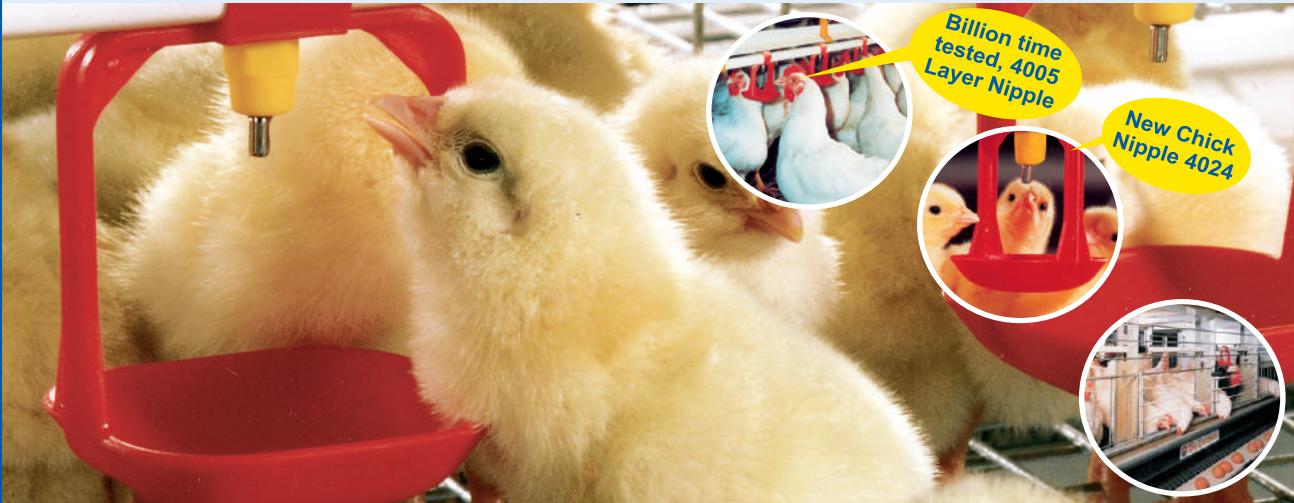
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## **Venkateshwara B V Bio-Corp Private Limited organised series of Technical seminars on “BV 300 Layer Management and Nutrition”.**

VENKATESHWARA BV BIO-CORP PVT LTD organized series of Technical seminars for commercial Layer Farmers on 24th and 25th January 2024 at Talegaon (Pune Dist.) and Sangamner (Nasik Dist.)- Maharashtra respectively.

Mr Ram Ghate, AGM, Sales and Marketing, welcomed all attendees and introduced the speakers for the technical seminar.

Dr Sunil Nadgauda, DGM, Technical, explained in detail about the “New BV 300 commercial Layers Nutrition and Management Guide” in all aspects on 24th Jan 2024. During presentation he insisted more on producing quality pullets for better laying performance. The excerpts from his presentation can be summarized as below.

Dr Roshan Sarode presented about BV 300 nutrition and management on 25th Jan 2024 at Sangamner and discussed in detail about nutrition and management of BV 300 to



achieve better performance.

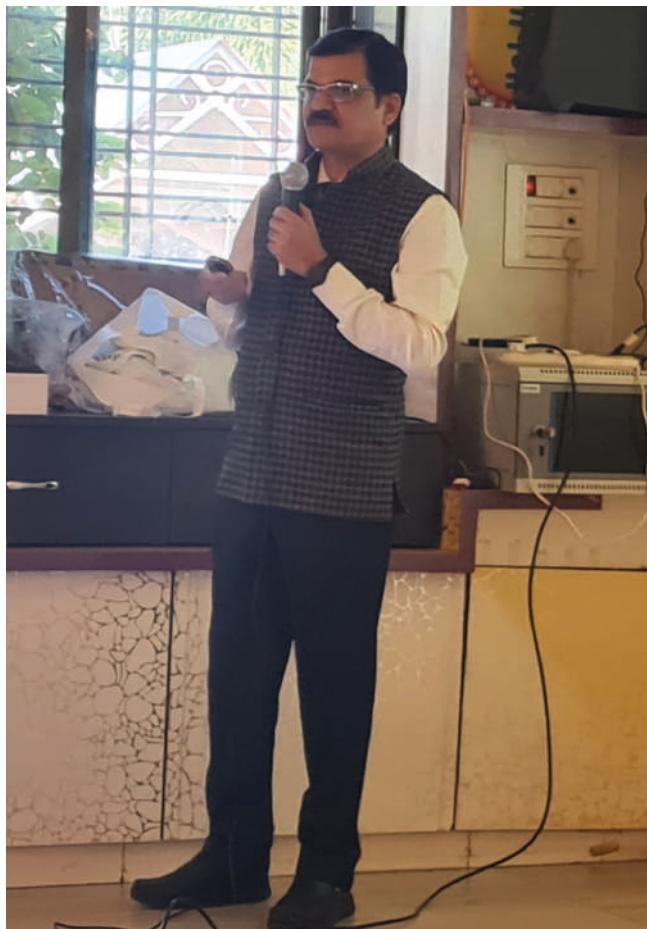
- BV 300 performance review over 100 weeks of age.
- Importance of body weight monitoring in rearing period and its impact on laying performance.
- Early Laying Nutrition to maximize peak production and to maintain the consistency.
- Benefits of Phase feeding – to reduce the overall egg production cost and to optimize the efficiency.
- Impact of feed toxicity on egg size, egg shell quality and immunity of the bird along with production performance.
- Importance of body weight management and lighting management in laying as well as in rearing period.
- Importance of gut health in long laying birds in egg productions. Gut health can be boosted by using gut acidifiers, probiotics and other solutions.

- Innovative premix solutions to simplify the feed manufacturing and also to avoid errors during feed production were discussed. These solutions include EggXtra 5 % composite premix and Mixiblend 0.4 % premix for Layers.

Dr H G Murade presented about proper vaccination and procedures followed for developing good immunity. He also guided about precaution to be taken during vaccination like maintaining cold chain, correct dosage of vaccine, method of vaccination and things to do before and after vaccination.

Dr H G Murade summarized the presentations and suggested to follow the proper vaccination schedule as per the guidelines. He emphasized more on use of inactivated vaccines in laying phase.

Dr Sunil Nadgauda and Dr H G Murade answered the queries of the attendees related



to the subject and other technical queries regarding layer nutrition and management.

The Technical Seminar was attended by around 190 Layer farmers Nashik and Pune districts and surrounding area.

Dr Tushar Mahanwar, Regional Technical Manager proposed vote of thanks. The local Venworld Team organised these technical seminars.



## **Venkateshwara B V Bio-Corp Private Limited organised series of Technical seminars on “BV 300 Layer Management and Nutrition”.**



VENKATESHWARA BV BIO-CORP PVT LTD organized series of Technical seminars in association with Phoenix Group, Jabalpur for commercial Layer Farmers on 17th,18th and 20th January 2024 at Bhopal, Jabalpur and Raipur respectively. This technical seminar was attended by layer farmers of Bhopal, Indore, Jabalpur, Raipur and surrounding area.

Dr H.G Murade, DGM, Sales and Marketing, welcomed all attendees and introduced the speakers for the technical seminar.

Dr Sunil Nadgauda, DGM, Technical, explained in detail about the “New BV 300 commercial Layers Nutrition and Management Guide” in all aspects. During presentation he insisted more on producing quality pullets for better laying performance. The excerpts from his presentation can be summarized as below.



- BV 300 performance review over 100 weeks of age.
- Importance of body weight monitoring in rearing period and its impact on laying performance.
- Early Laying Nutrition to maximize peak production and to maintain the consistency.
- Benefits of Phase feeding – to reduce the overall egg production cost and to optimize the efficiency.



- Impact of feed toxicity on egg size, egg shell quality and immunity of the bird along with production performance.
- Importance of body weight management and lighting management in laying as well as in rearing period.
- Importance of gut health in long laying birds in egg productions. Gut health can be boosted by using gut acidifiers, probiotics and other solutions.
- Innovative premix solutions to simplify the



feed manufacturing and also to avoid errors during feed production were discussed. These solutions include EggXtra 5 % composite premix and Mixiblend 0.4 % premix for Layers.

Dr Sunil Bhidwale, Technical Director, Phoenix Group, presented regarding Current Disease scenario in MP and CG states and strategies to prevent and control the same. He discussed in detail regarding the causes and best possible solutions to prevent the emerging and re-emerging diseases. He insisted to follow strict biosecurity to be followed at farm to enhance the productivity



Dr Sunil Nadgauda and Dr Sunil Bhindwale answered the queries of the attendees related to the subject and other technical queries regarding layer nutrition and management.

Dr H G Murade summarized the presentations and suggested to follow the proper vaccination schedule as per the guidelines. He emphasized more on use of inactivated vaccines in laying phase.

Mr Prabhakar Iyer, CEO, Phoenix Group and Mr Pallabh Paul GM- Phoenix Group, given conclusive remarks on technical seminar and assured the farmers regarding best possible services.



The New BV 300 layer nutrition and management guide November 2023 was launched during these seminars and copies were distributed to the layer farmers.

Mr Manish Podar, Zonal Manager proposed vote of thanks. The local Venworld Team organised these technical seminars.

# Venkateshwara B V Bio-Corp Private Limited organised Technical seminars.



VENKATESHWARA BV BIO-CORP PVT LTD organized two Technical seminars for commercial Layer Farmers on 18th at Musiri and 19th January 2024 at Thalaivasal, Namakkal. The topic discussed during seminar-

- Layer disease challenges and Vaccination updates
- The New way of Premixing and Innovative premix solutions
- Importance of water sanitation in Layer Industry.

Mr R.Murugesan, Zonal Manager, welcomed all attendees and introduced the speakers for the technical seminar.

Dr A.Kandasamy- AGM-Technical, discussed current disease challenges in commercial layers and proper vaccination for layer. He suggested to use of updated vaccines & control of myco-



plasma to ensure sufficient protection against disease problems. This will also help to achieve desired performance.

Dr Sambhaji Nimbalkar-Technical Manager, discussed regarding Premix and premixing technology. He elaborated benefits of homogenous premix and innovative premix solutions to simplify the feed manufacturing and also to avoid errors during feed production especially premixing. The innovative solution includes Mixiblend 0.4 % premix for Layers.

Dr R. Venkatvasan – discussed importance



of water sanitation. He suggested to regular monitoring of physical, microbial and chemical qualities of water. Benefits of continuous water sanitation, challenges in water sanitation and solution for this were also discussed.

Dr A. Kandasamy and Dr Sambhaji Nimbalkar answered the queries of the attendees related to the subject and other technical queries regarding layer nutrition, Vaccination and management.

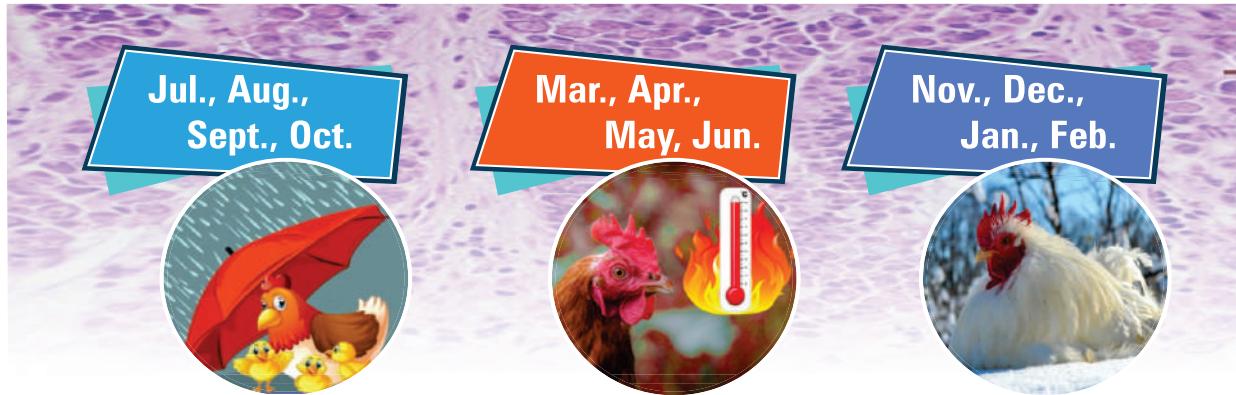
The Technical Seminar was attended by Layer farmers of Musiri, Thalaivasal, Attur and surrounding areas. Local VHPL chick's sale team also helped for coordination and organization of these seminars.

Mr R.Murugesan, Zonal Manager proposed vote of thanks.

**Broiler Lifting Rates for the month of January\_2024**

| <b>Place</b>  | <b>1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> | <b>9</b> | <b>10</b> | <b>11</b> | <b>12</b> | <b>13</b> | <b>14</b> | <b>15</b> | <b>16</b> | <b>17</b> | <b>18</b> | <b>19</b> | <b>20</b> | <b>21</b> | <b>22</b> | <b>23</b> | <b>24</b> | <b>25</b> | <b>26</b> | <b>27</b> | <b>28</b> | <b>29</b> | <b>30</b> | <b>31</b> |
|---------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Hyderabad     | 110      | 112      | 90       | 85       | 75       | 70       | 75       | 85       | 85       | 87        | 92        | 102       | 107       | 107       | 97        | 97        | 97        | 97        | 97        | 97        | 97        | 97        | 97        | 97        | 97        | 97        | 97        | 107       | 107       | 109       | 109       |
| Karimnagar    | 110      | 112      | 102      | 90       | 85       | 75       | 70       | 75       | 85       | 85        | 87        | 92        | 102       | 107       | 107       | 97        | 97        | 97        | 97        | 97        | 97        | 97        | 97        | 97        | 97        | 97        | 107       | 107       | 109       | 109       |           |
| Warangal      | 110      | 112      | 102      | 90       | 85       | 75       | 70       | 75       | 85       | 85        | 87        | 92        | 102       | 107       | 107       | 97        | 97        | 97        | 97        | 97        | 97        | 97        | 97        | 97        | 97        | 97        | 107       | 107       | 109       | 109       |           |
| Mahaboobnagar | 110      | 112      | 102      | 90       | 85       | 75       | 70       | 75       | 85       | 85        | 87        | 92        | 102       | 107       | 107       | 97        | 97        | 97        | 97        | 97        | 97        | 97        | 97        | 97        | 97        | 97        | 107       | 107       | 109       | 109       |           |
| Kurnool       | 110      | 112      | 102      | 90       | 85       | 75       | 70       | 75       | 85       | 85        | 87        | 92        | 102       | 107       | 107       | 97        | 97        | 97        | 97        | 97        | 97        | 97        | 97        | 97        | 97        | 97        | 107       | 107       | 109       | 109       |           |
| Vizag         | 109      | 109      | 99       | 89       | 84       | 79       | 79       | 79       | 79       | 79        | 81        | 86        | 96        | 101       | 101       | 101       | 101       | 101       | 101       | 101       | 101       | 101       | 101       | 101       | 103       | 108       | 108       | 108       | 110       | 110       |           |
| Godavari      | 114      | 114      | 104      | 94       | 89       | 84       | 84       | 84       | 84       | 84        | 86        | 91        | 101       | 106       | 106       | 106       | 106       | 106       | 106       | 106       | 106       | 106       | 106       | 106       | 106       | 106       | 111       | 111       | 113       | 113       |           |
| Vijayawada    | 114      | 114      | 104      | 94       | 89       | 84       | 84       | 84       | 84       | 84        | 86        | 91        | 101       | 106       | 106       | 106       | 106       | 106       | 106       | 106       | 106       | 106       | 106       | 106       | 106       | 111       | 111       | 113       | 113       |           |           |
| Guntur        | 110      | 110      | 100      | 90       | 85       | 82       | 82       | 82       | 85       | 85        | 87        | 92        | 102       | 107       | 107       | 107       | 107       | 107       | 107       | 107       | 107       | 107       | 107       | 107       | 107       | 102       | 107       | 112       | 112       | 114       |           |
| Ongole        | -        | -        | -        | -        | -        | -        | -        | -        | -        | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         | -         |           |           |
| Nammakkal     | 102      | 102      | 102      | 102      | 92       | 92       | 87       | 87       | 80       | 82        | 88        | 93        | 96        | 98        | 98        | 98        | 98        | 98        | 98        | 98        | 90        | 90        | 82        | 82        | 84        | 88        | 93        | 98        | 105       | 107       | 107       |

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— Layer Farmer, Namakkal, India

## BioEmulsin DS – Not Just Another Emulsifier

**Dr. Shivi Maini, Indian Herbs Specialities, Chandigarh India**

Energy represents a significant cost factor in high-performance animal diets. Fats and oils, owing to their high energy density, play a crucial role as energy sources in feed formulation. Enhancing the energy efficiency of these raw materials holds considerable economic significance. Nutritional emulsifiers offer a viable solution to enhance fat digestibility, thereby increasing energy efficiency. This, in turn, leads to reduced feed costs and contributes to a more economical and sustainable approach in animal production.

### Fat: One of the most intricate nutrients

Fat digestion involves triglycerides of various fatty acid profiles, termed fats or oils. Free fatty acids exist when fatty acids are unbound to glycerol. These lipids serve as the primary energy source for animals, boasting the highest caloric value among nutrients. The energy derived from dietary fat relies on its digestibility; higher digestibility yields more available energy. Fat digestibility in animals correlates with fat characteristics, amount added to the diet, and animal-specific factors like age. Young birds, for instance, possess limited natural lipase and bile salt production, resulting in restricted fat digestion. Emulsifiers added to the diet can enhance fat digestion. The process of fat digestion involves several stages. Initially, large fat globules undergo emulsification in the watery gut environment, facilitated by peristaltic movement. Bile salts act as natural emulsifiers, aiding the mixing of typically immiscible fat and water. This process forms smaller fat droplets to increase surface contact for the enzyme lipase. Produced by the pancreas, lipase functions to break down the fat.

Fats and oils consist of three fatty acids and glycerol, forming esters. Lipase hydrolyzes these esters, releasing fatty acids and one monoglyceride. Subsequently, micelles are formed—water-soluble aggregates of lipid molecules containing polar and non-polar groups. These molecules arrange in micelles with polar groups on the outside interfacing with the aqueous phase, while non-polar components create the inner lipid core. Emulsifiers like bile salts and monoglycerides play a role in micelle formation. Upon encountering the microvillous membrane, these micelles are disrupted, allowing the fatty acids to be absorbed by the lipophilic cell membrane.

### Nutritional emulsifier

Nutritional emulsifiers play a crucial role in the digestion

of fats and oils. These compounds are formed from esters comprising three fatty acids and glycerol, with lipase catalyzing the release of two fatty acids and one monoglyceride through hydrolysis. Micelles, water-soluble clusters of lipid molecules encompassing polar and non-polar segments, are subsequently formed. Their arrangement involves polar groups on the exterior, interacting with the aqueous phase, while non-polar components form the micelles' inner lipid core.

Natural emulsifiers like bile salts and monoglycerides aid in micelle formation. However, their efficacy can be limited in facilitating fat digestion, particularly in young animals with restricted bile salt production. Additionally, the nature of dietary fat can hinder digestibility; fatty acid mixtures high in free fatty acids tend to lack monoglyceride formation, thus reducing emulsification.

Characteristics of fatty acids also impact micelle formation and subsequent digestibility. Long-chain unsaturated fatty acids and monoglycerides form micelles efficiently, while saturated fatty acids, due to their lower polarity, exhibit reduced micelle-forming abilities. Consequently, saturated fatty acids, prevalent in animal fats, are generally less easily digested compared to unsaturated fatty acids found in vegetable fats.

Higher levels of free fatty acids and certain characteristics of dietary fats can limit digestibility. Exogenous nutritional emulsifiers aid in enhancing digestibility, particularly in less digestible fats, and their effectiveness is more pronounced with higher levels of added fat. However, even in highly digestible fats, positive effects from these emulsifiers have been observed in various cases.

### BioEmulsin DS-The novel natural nutritional emulsifier

BioEmulsin DS is not just like another conventional emulsifier, BioEmulsin DS is a nutritional emulsifier that plays a pivotal role in enhancing fat digestibility among poultry birds. BioEmulsin DS provides benefits beyond emulsification and ensures optimized fat utilization therefore makes poultry flock more fat and energy efficient.

Significant and higher production of bile secretions improves fat emulsification: Supplementation of BioEmulsin DS physiologically stimulates significantly higher bile acid production. Bile acids are natural surfactants that facilitates emulsification of bigger fat

globules into micro fat droplets. BioEmulsin DS help break down larger fat globules into smaller droplets. These tiny droplets offer a larger surface area, making it easier for digestive enzymes to access and break down fats into absorbable components.

Significant and higher production of pancreatic lipase enzyme enhances fat digestibility: Pancreatic lipase plays important role in fat digestion. Supplementation of BioEmulsin DS stimulates release of pancreatic lipase. However, pancreatic lipase cannot hydrolyse fat into fatty acids until bile pool available for activation of lipase.

**Optimized Utilization:** BioEmulsin DS ensures optimized absorption of fats of feed ingredients and other lipids/oils added to the poultry feed as supplements. This aids in the absorption of fats and fat-soluble vitamins by the intestinal lining, thereby enhancing overall fat utilization.

**Performance Boost:** Improved fat digestibility contributes to better overall health and performance in birds by ensuring more efficient use of dietary energy. This leads to enhanced growth, development, and energy balance.

BioEmulsin DS supplementation maintains bile pool – bile is available for fat emulsification and for lipase activation, therefore BioEmulsin facilitates better fat digestion and conversion of micro fat droplets into SCFA & LCFA.

**Absorption** – BioEmulsin DS ensures optimized absorption of fats of feed ingredients and other lipids/oils added to the poultry feed as supplements. For the optimum absorption of Long chain fatty acids (LCFA), bile acts as carrier.

To summarize, BioEmulsin DS acts on two target organs

– Liver and Pancreas and provides comprehensive and intricate mode of action of fat emulsification, digestion, absorption and assimilation. BioEmulsin DS is designed in such a way that it triggers higher physiological production of bile and stimulates activity of pancreatic lipase enzyme.

BioEmulsin DS@250g/ton of feed is a one stop solution for complete replacement of synthetic or natural emulsifiers, lipase enzymes and bile acid extracts from other monogastric species.

#### Conserving Energy, Cutting Costs

Adding BioEmulsin DS to a diet can offset a decrease in dietary energy. If a diet can be structured with lower energy content, it translates to reduced use of costly fats and oils, thereby lowering overall expenses. The impact on cost hinges on nutritional restrictions in the formula and fluctuating raw material prices, which vary by region and change over time. BioEmulsin DS allows nutritionists to formulate diets with reduced energy content while maintaining performance levels. This adjustment translates to reduced feed expenses and promotes a more cost-effective and sustainable approach in animal production.

#### Conclusion

Energy stands as a significant cost factor in high-performance animal diets. Fat is the main concentrated energy source within animal feed. A good fat digestibility is very important in order to lower the feed cost. Therefore, dietary emulsifiers are added to animal feed and aid to increase the digestibility of fat and thus the energy efficiency. Employing nutritional emulsifiers enhances fat digestibility, thereby amplifying energy efficiency. BioEmulsin DS usage is highly recommended to make the poultry flocks more fat and energy efficient.

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**DAILY/MONTHLY EGG PRICES SUGGESTED BY NECC AND PREVAILING PRICES AT VARIOUS PRODUCTION CENTRES (PC) AND CONSUMPTION CENTRE (CC)**

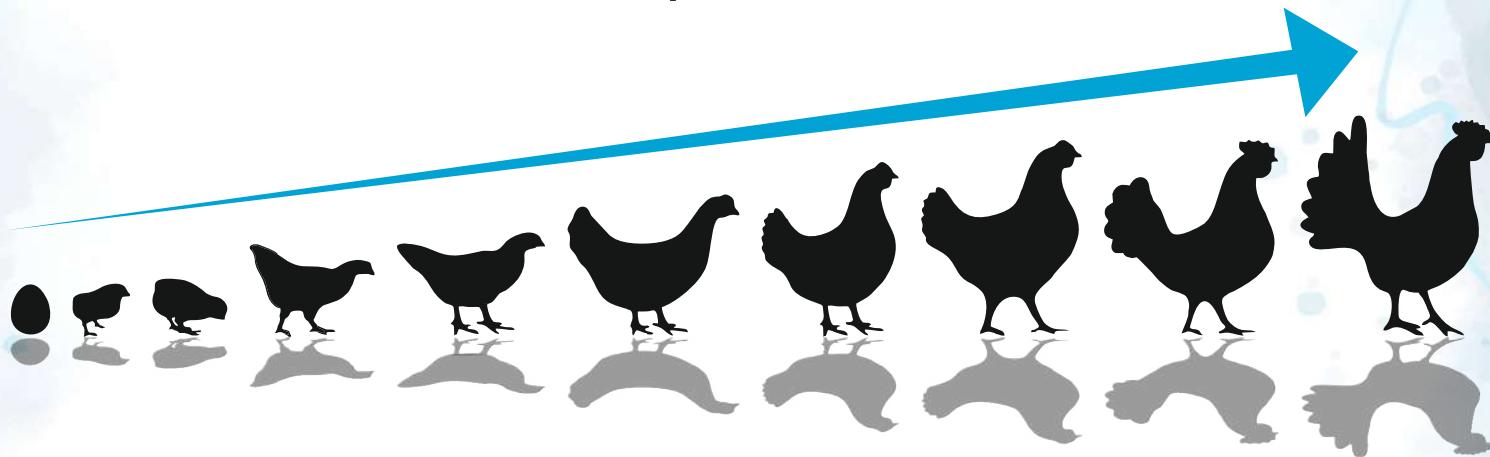
JANUARY-2024

| 2023 Dec.                        | 1          | 2          | 3          | 4          | 5          | 6          | 7          | 8          | 9        | 10       | 11       | 12       | 13       | 14       | 15       | 16       | 17       | 18       | 19         | 20         | 21         | 22         | 23         | 24         | 25         | 26       | 27       | 28       | 29            | 30     | 31     | Average |
|----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------------|------------|------------|------------|------------|------------|------------|----------|----------|----------|---------------|--------|--------|---------|
| <b>NECC SUGGESTED EGG PRICES</b> |            |            |            |            |            |            |            |            |          |          |          |          |          |          |          |          |          |          |            |            |            |            |            |            |            |          |          |          |               |        |        |         |
| Ahmedabad                        | 636        | 639        | 642        | 642        | 642        | 642        | 642        | 642        | 630      | 630      | 630      | 630      | 630      | 605      | 605      | 605      | 605      | 595      | 585        | 585        | 585        | 590        | 590        | 590        | 590        | 590      | 590      | -        | -             | 608.5  |        |         |
| Ajmer                            | 620        | 620        | 610        | 610        | 606        | 606        | 606        | 596        | 580      | 570      | 570      | -        | 560      | 560      | 550      | 550      | 550      | 568      | 573        | 573        | 573        | 573        | 573        | 573        | 573        | 573      | 573      | 573      | 573           | -      | -      | 578.28  |
| Barwala                          | 606        | 606        | 606        | 606        | 580        | 580        | 580        | 580        | 568      | 568      | 568      | 568      | 568      | 548      | 548      | 548      | 548      | 560      | 568        | 570        | 570        | 570        | 570        | 570        | 570        | 570      | 570      | 570      | 570           | -      | -      | 568.93  |
| Bengaluru (CC)                   | 615        | 615        | 615        | 615        | 590        | 570        | 575        | 575        | 565      | 565      | 565      | 565      | 565      | 550      | 550      | 550      | 550      | 550      | 555        | -          | 565        | 570        | 570        | 570        | 570        | 570      | 570      | 570      | 570           | -      | -      | 574.26  |
| Brahmapur (DD)                   | 610        | 610        | 610        | 610        | 610        | 610        | 610        | 610        | 585      | 585      | 585      | 580      | 580      | 573      | 573      | 550      | 550      | 550      | 557        | 567        | 575        | 578        | 578        | 563        | 563        | 563      | 563      | -        | -             | -      | -      | 580.46  |
| Chennai (CC)                     | 615        | 615        | 615        | 615        | 605        | 590        | 590        | 590        | 580      | -        | 570      | 570      | -        | 570      | 570      | 555      | 555      | 555      | 555        | 555        | 570        | 570        | 580        | 580        | 580        | 580      | -        | -        | -             | -      | 582.69 |         |
| Chittoor                         | 608        | 608        | 608        | 608        | 598        | 583        | 583        | 583        | 583      | 573      | -        | 563      | 563      | 563      | 563      | 563      | 563      | 563      | 563        | 548        | 548        | 548        | 548        | 563        | 563        | 573      | 573      | 573      | -             | -      | 575.69 |         |
| Delhi (CC)                       | 645        | 645        | 645        | 640        | 650        | 630        | 630        | 620        | 620      | 610      | 610      | 610      | 610      | 585      | 570      | 570      | 570      | 575      | 595        | 600        | 600        | 600        | 600        | 600        | 600        | 600      | 600      | 600      | -             | -      | 610.18 |         |
| E.Godavari                       | 580        | 585        | 585        | 585        | 585        | 585        | 585        | 585        | 565      | 565      | 565      | 565      | 565      | 555      | 555      | 550      | 550      | 530      | 530        | 535        | 542        | 550        | 555        | 558        | 540        | 540      | 540      | -        | -             | 557.32 |        |         |
| Hospet                           | 575        | 575        | 575        | 575        | 550        | 530        | 535        | 535        | 535      | 525      | 525      | 525      | 525      | 525      | 510      | 510      | 510      | 510      | 515        | -          | 525        | 530        | 530        | 530        | 530        | 530      | 530      | 530      | -             | -      | 534.26 |         |
| Hyderabad                        | 579        | 582        | 582        | 582        | 560        | 560        | 560        | 540        | 540      | 540      | -        | 540      | 520      | 520      | 520      | 520      | 523      | 526      | 531        | 536        | 540        | 540        | 540        | 540        | 540        | 540      | 540      | -        | -             | -      | 546.27 |         |
| Iabalpur                         | 610        | 615        | 615        | 600        | 585        | 585        | 585        | 585        | 585      | 560      | 560      | -        | 560      | 560      | 540      | 540      | 540      | 540      | 540        | 560        | 575        | 575        | 575        | 555        | 555        | 555      | 555      | -        | -             | -      | -      | 570.77  |
| Kolkata (WB)                     | 650        | 650        | 650        | 650        | 650        | 650        | 650        | 625        | 625      | 615      | 615      | 605      | 595      | 585      | 585      | 585      | 585      | 610      | 630        | 630        | 630        | 600        | 600        | 600        | 600        | 600      | 600      | -        | -             | -      | 619.11 |         |
| Ludhiana                         | 610        | 610        | 610        | 595        | 595        | 580        | 580        | 580        | -        | -        | -        | -        | -        | -        | -        | -        | -        | 547      | 547        | 565        | 569        | 569        | 569        | 569        | 569        | 569      | 569      | 569      | 569           | -      | -      | 573.68  |
| Mumbai (CC)                      | 645        | 645        | 650        | 650        | 630        | 620        | 620        | 600        | 600      | 600      | 600      | 600      | 590      | 580      | 580      | 580      | 580      | 583      | 586        | 593        | 601        | 605        | 605        | 605        | 605        | 605      | 605      | -        | -             | 610.85 |        |         |
| Mysuru                           | 615        | 615        | 615        | 615        | 615        | 590        | 570        | 575        | 575      | 565      | -        | 565      | 565      | 565      | 550      | 550      | 550      | 550      | 550        | 555        | 562        | 567        | 572        | 572        | 572        | 572      | -        | -        | -             | 574.59 |        |         |
| Namakkal                         | 565        | 565        | 565        | 565        | 545        | 525        | 525        | 525        | 525      | 515      | 515      | 515      | 515      | 515      | 505      | 505      | 505      | 505      | 505        | 505        | 510        | 515        | 520        | 520        | 520        | 520      | 520      | -        | -             | -      | 525    |         |
| Pune                             | 650        | 650        | 650        | 640        | 620        | 610        | 612        | 612        | 610      | 605      | 600      | 600      | 590      | 590      | 585      | 585      | 590      | 595      | 603        | 603        | 603        | 603        | 603        | 603        | 603        | 603      | -        | -        | 611.57        |        |        |         |
| Raipur                           | 600        | 600        | 600        | 590        | 580        | 580        | 565        | 565        | 580      | 560      | 560      | -        | 550      | 550      | 545      | 545      | 545      | 545      | 545        | 545        | 545        | 545        | 545        | 545        | 545        | 545      | -        | -        | -             | -      | 563.46 |         |
| Surat                            | 640        | 640        | 643        | 643        | 635        | 620        | 620        | 600        | 600      | 600      | 600      | 600      | 580      | 580      | 580      | 580      | 580      | 580      | 585        | 590        | 590        | 590        | 590        | 590        | 590        | 590      | -        | -        | 604.96        |        |        |         |
| Vijaywada                        | 580        | 585        | 585        | 585        | 585        | 585        | 565        | 565        | 565      | 555      | 555      | 555      | 550      | 550      | 530      | 530      | 530      | 535      | 542        | 550        | 555        | 558        | 540        | 540        | 540        | 540      | -        | -        | -             | 557.32 |        |         |
| Vizag                            | 625        | 625        | 625        | 625        | 625        | 625        | 625        | 625        | 625      | 599      | 599      | 599      | 599      | 599      | 564      | 550      | 550      | 550      | 555        | 560        | 563        | 565        | 565        | 565        | 565        | 565      | -        | -        | -             | 591.46 |        |         |
| W.Godavari                       | 580        | 585        | 585        | 585        | 585        | 585        | 585        | 565        | 565      | 555      | 555      | 555      | 550      | 530      | 530      | 530      | 530      | 535      | 542        | 550        | 555        | 558        | 540        | 540        | 540        | 540      | -        | -        | -             | 557.32 |        |         |
| Warangal                         | <b>581</b> | <b>584</b> | <b>584</b> | <b>584</b> | <b>562</b> | <b>562</b> | <b>562</b> | <b>542</b> | <b>-</b> | <b>522</b> | <b>525</b> | <b>528</b> | <b>533</b> | <b>538</b> | <b>542</b> | <b>542</b> | <b>-</b> | <b>-</b> | <b>-</b> | <b>553.15</b> |        |        |         |
| Prevailing Prices                |            |            |            |            |            |            |            |            |          |          |          |          |          |          |          |          |          |          |            |            |            |            |            |            |            |          |          |          |               |        |        |         |
| Allahabad (CC)                   | 671        | 676        | 662        | 652        | 638        | 619        | 610        | 610        | 610      | 610      | 610      | 610      | 610      | 595      | 586      | 576      | 571      | 595      | 619        | 629        | 609        | 595        | 595        | 595        | 595        | 595      | 595      | 595      | -             | -      | 616.21 |         |
| Bhopal                           | 615        | 620        | 620        | 620        | 625        | 625        | 625        | 625        | 590      | 570      | 570      | -        | 570      | 550      | 540      | 540      | 540      | 540      | 550        | 560        | 570        | 570        | 570        | 570        | 570        | 570      | 570      | -        | -             | 581.6  |        |         |
| Indore (CC)                      | 600        | 610        | 615        | 615        | 610        | 600        | 600        | 590        | 580      | 570      | 570      | -        | 560      | 550      | 550      | 550      | 550      | 550      | 560        | 565        | 570        | 570        | 570        | 570        | 570        | 570      | 570      | -        | -             | 573.46 |        |         |
| Kanpur (CC)                      | 652        | 652        | 652        | 642        | 642        | 633        | 633        | 624        | 624      | 614      | 614      | 614      | 614      | 595      | 595      | 586      | 586      | 586      | 609        | 609        | 595        | 595        | 595        | 595        | 595        | 595      | 595      | -        | -             | 615.21 |        |         |
| Luknow (CC)                      | 683        | 683        | 683        | 667        | 667        | 667        | 667        | 667        | 660      | 660      | 660      | 660      | 660      | 650      | 650      | 650      | 650      | 650      | 650        | 650        | 650        | 650        | 650        | 650        | 650        | 650      | 650      | -        | -             | 651.86 |        |         |
| Muzaffarpur (CC)                 | 670        | 670        | 670        | 670        | 665        | 640        | 640        | 640        | 630      | 630      | 630      | 630      | 630      | 610      | 610      | 610      | 610      | 610      | 625        | 630        | 630        | 630        | 630        | 630        | 630        | 630      | 630      | -        | -             | 630.86 |        |         |
| Nagpur                           | 600        | 600        | 600        | 600        | 600        | 600        | 600        | 590        | 590      | 577      | 565      | -        | -        | 540      | -        | 540      | 540      | 540      | 563        | 563        | 563        | 563        | 563        | 563        | 563        | 563      | 563      | -        | -             | 573.68 |        |         |
| Patna                            | 670        | 670        | 670        | 665        | 640        | 640        | 640        | 640        | 630      | 630      | 630      | 630      | 630      | 610      | 610      | 610      | 610      | 610      | 625        | 630        | 630        | 630        | 630        | 630        | 630        | 630      | 630      | -        | -             | 630.86 |        |         |
| Ranchi (CC)                      | 667        | 667        | 667        | 657        | 642        | 642        | 638        | 629        | 629      | 619      | 619      | 619      | 619      | 619      | 609      | 609      | 605      | 605      | 605        | 619        | 619        | 619        | 619        | 619        | 619        | 619      | 619      | -        | -             | 625.29 |        |         |
| Varanasi (CC)                    | 673        | 673        | 667        | 667        | 650        | 650        | 650        | 633        | 633      | 633      | 633      | 633      | 630      | 620      | 620      | 620      | 620      | 620      | 610        | 610        | 610        | 610        | 610        | 610        | 610        | 610      | 610      | 610      | -             | -      | 628.3  |         |

# GROWLINE

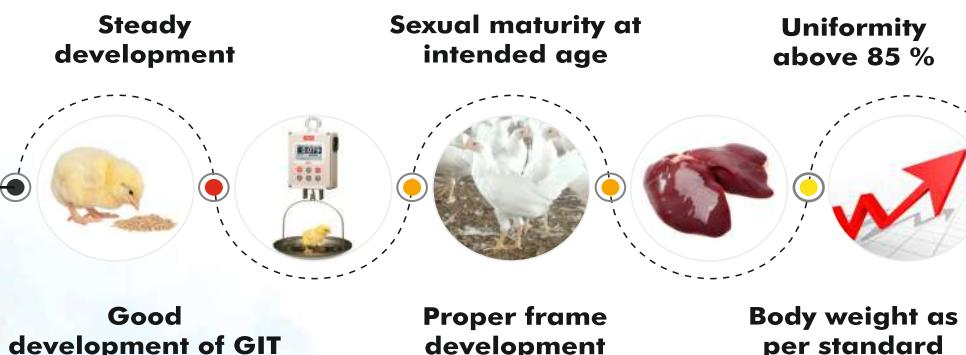
*To achieve the growing period targets in commercial layers...*

Growing phase in layers determines the productive efficiency of the birds...



**Body weight and uniformity are the critical factors for better performance**

**Targets in Growing phase of commercial layers -**



For further information please contact :

**VENKY'S (INDIA) LIMITED**  
ANIMAL HEALTH PRODUCTS DIVISION

An ISO 9001 Certified Company

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# VH ND SHIELD

## Mucosal Immunity

(Live vaccine)



## Cellular Immunity

(Inactivated Vaccine)



## Early Protection in Broilers against Catastrophic Genotype XIII Newcastle Disease Virus



### Unique Qualities :

- 💧 High Antigenicity - > 1000 HAU (Hemagglutination Virus Units)
- 💧 Low volume - 0.1 ml / chick.
- 💧 Fast and high immune response.
- 💧 Live + Killed vaccines - provides both mucosal and cellular immunity.

## VENTRI BIOLOGICALS

(Vaccine Division of VHPL)

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