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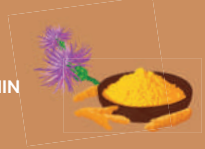
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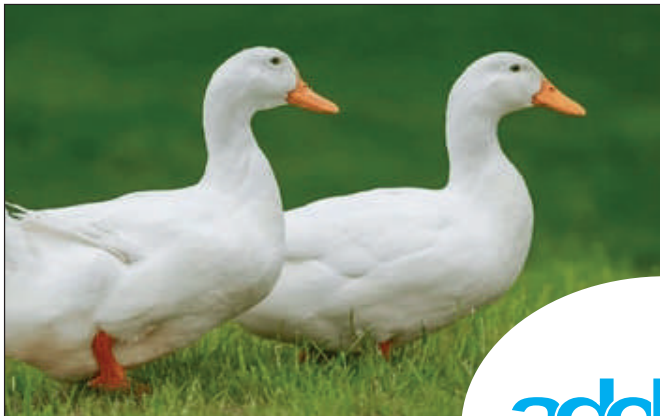
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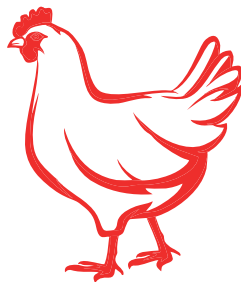
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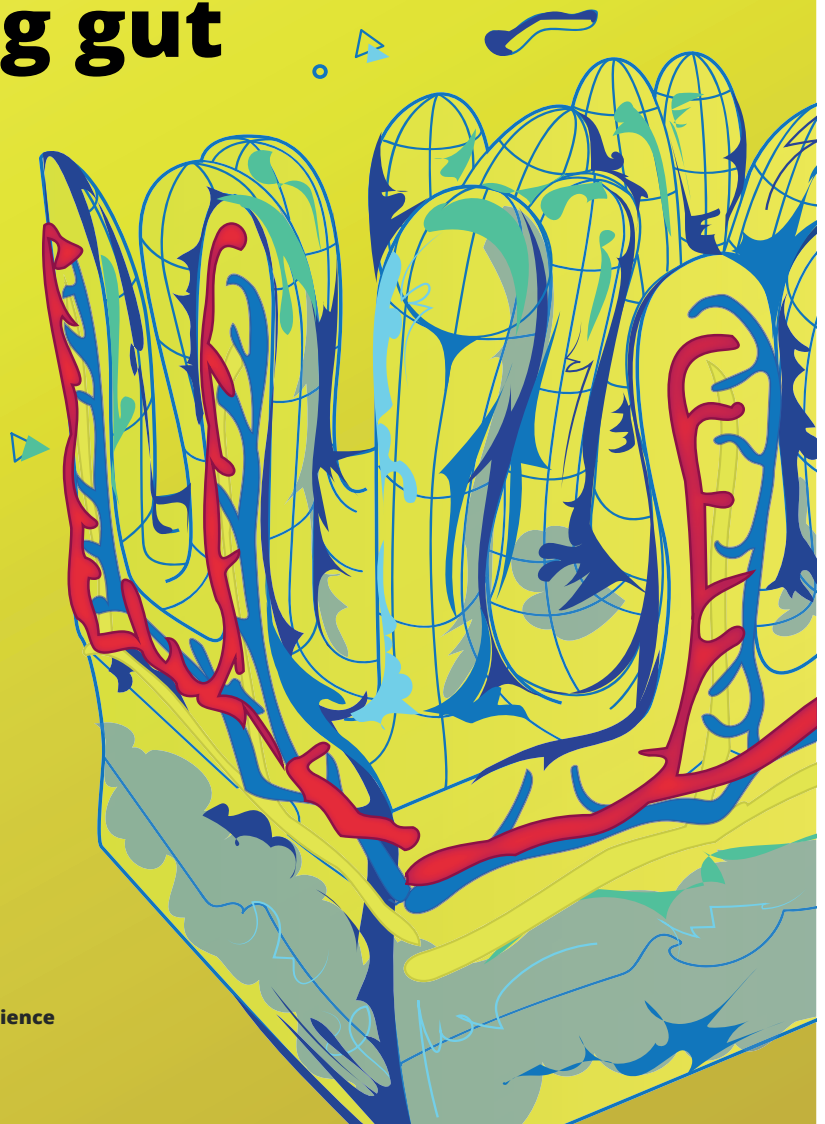
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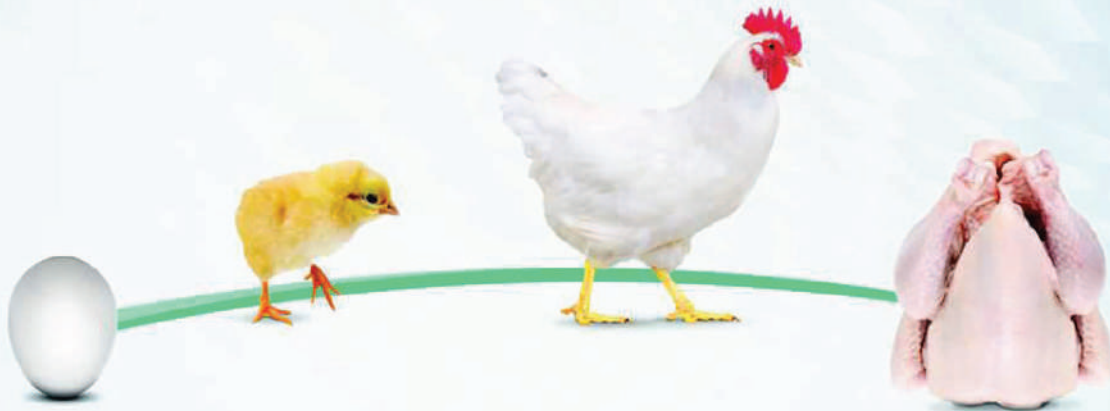


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The movie mafia has raised its ugly head again. Budding actors are targeted and eliminated come what may!

The success of Allu Arjuns Pushpa-2 is not being tolerated by a few. The actor and the movie is clean, sincere, transparent, and realistic. The Bollywood is used to manipulate ideas that are fixed, and on a template the deep power in the movie industry is unable to digest this new upcoming offer successful trend. The public is aware and realizing that they have been manipulated and brainwashed for long and are able to read between the lines.

With the election coming around the corner in some states the public, which is aware mainly because of social media are openly, announcing the freebies of electricity and water and bus travel. The free money offer to women is not attracting the gullible public anymore. It is hardening to see that Indian democracy is getting more vibrant with knowledgeable and more aware voting public. Social media is playing a role of educating and bringing in awareness to the common people. Of course, it is not free from the dangers of fake media and also manipulated information planted to bring out a targeted outcome.

Our eastern Neighbour is keen on joining the other 56 religious' groups of countries and so defying democracy and its principles. Unfortunately, it is tying up with its own rival enemy (Pakistan), which had raped and killed millions before their independence in 1971 delivered to it by India. It is very sad that a progressive country will now go into a possible, Syria, Lebanon, Afghanistan, or Jordan the western Neighbourhood has any out on the path of self destruction with no administration or democratic values. Pakistan still believes in using terrorism as a means of achieving its religious and military goals. Unfortunately, no one can escape karma, and now the Taliban strongly supported and funded by Pakistan is hitting back hard and putting them to their knees. The world and many are surprised at India's foreign policy towards Bangladesh. India has approached it softly and with no aggression until now the Hindus are being slaughtered, raped, and openly abused even the world is yet to respond emphatically.

The Poultry industry is consolidating with new alliances and a lot of investment into marketing and digitization, which is very essential for survival and growth. Nevertheless, it is still in its infant stages of such modernization and has a long way to go.

The Poultry Federation of India had organized a grand AGM celebration at New Delhi. Dr Baghel was present and gave a patient hearing and good advice to the farmers. Unfortunately, the image of PFI still remains as a typical north Indian association as it has failed to attract farmers from the south and the rest of India in an impressive manner.

Mohammad Yunus- the interim government caretaker of Bangladesh is supposed to be a Noble Laurette- how does such a personality end up committing atrocities of the worst kind against humanity. He's accused of overthrowing, elected representative of the democratic government through violence and encouraging genocide of the Hindus. He does the most unexpected of humiliating the freedom fighters of Bangladesh and joining hands with Pakistani army in developing and training his own terror group, a sad day and moment for Bangladesh's future!



RE-EMERGING POULTRY PATHOGENS – A THREAT TO POULTRY INDUSTRY

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Poultry industry in India is fastest growing segment of agricultural sector. Transformation of Indian poultry industry has taken place from mere backyard poultry farming to major commercial activity. Farmers have shifted from rearing non-descript breeds to hybrid rearing, but along with all these changes there is an increase in the spread of infectious diseases. Poultry industry provides employment for large section of the society which includes marginal and landless farmers. Today, India is fifth and eighteenth largest producer of egg and poultry meat in the world, respectively.

Diseases which used to be major health problems in past, then declined dramatically but now again becoming health problem are known as re-emerging diseases. Intensive animal industry includes pig, poultry and fish, but pathogen- host dynamic interaction occurs at high rate throughout the world in poultry industry. Newcastle Disease (ND), Infectious Bronchitis, Infectious Bursal Disease (IBD), Campylobacteriosis, Mycoplasma synoviae and Reo virus infection are among some of the important re-emerging diseases. Transmission of these infectious pathogens to progeny is considered, the economic impact will be amplified to the poultry farms, compromising the overall production results. Greatest difficulties to the business operators are posed due to the lack of updated knowledge, issues sensibility, indirect impacts and difficult resolution of the disease.

Newcastle Disease

Newcastle disease is one of the most important and highly contagious disease of all species of birds, so it is necessary to create awareness among the poultry farmers. Despite

of advances in diagnostics and vaccination, Newcastle disease is having negative impact on poultry industry by infecting birds. It is fourth most important poultry disease. Newcastle disease is caused by highly pathogenic strain of paramyxovirus type 1, which has been reclassified as avian avulavirus 1. Clinical signs of disease may include depression, inappetence, respiratory signs, torticollis, circling, reduced egg production and paralysis. Disease has been divided into various forms like lentogenic, mesogenic and velogenic. Lentogenic isolates of low pathogenicity lead to mild respiratory or enteric infections, intermediate virulence viruses cause respiratory disease are termed mesogenic, while viruses that are highly pathogenic are known as velogenic (Very Virulent Newcastle disease).

The most pathognomic post-mortem lesion like pin point haemorrhage at the tip of proventricular glands. For prevention of vaccines are available in various forms like live, inactivated or attenuated. The main strategies for prevention, vaccinate the birds with a live lentogenic strain (F strain, lasota and B-1) at one to seven days of age, the same can be repeated at about 6 weeks of age. Mesogenic strain (R2B Mukteswar) should be given at 8-10 weeks of age. The inactivated vaccine can be given at about 16-18 weeks of age in commercial layers and 20-24 weeks of age in breeding birds. Mass vaccination via aerosol route or drinking water is cost effective for large scale poultry producers.

Infectious Bronchitis

Infectious Bronchitis is a highly pathogenic disease of poultry which is ubiquitous caused by Corona virus and able to spread rapidly to non-protected birds. Being a single stranded

RNA virus, Infectious Bronchitis Virus (IBV) has an enormous capacity to change both by spontaneous mutation and by genetic recombination. The virus affects gastro-intestinal and urogenital tract. Disease spread through faeces and respiratory route of infected birds to healthy ones. In young birds symptoms like coughing, sneezing and gasping are present, while loss of appetite, wet litter and a drop in egg production in layers is observed. Egg quality gets affected and eggs are small, soft-shelled and irregular-shaped.

In case of nephropathic IB the deposition of urate crystal on the visceral organs and joints. An IBV isolated in India in the early 2000s from cases of nephritis was reported to have a unique S1 sequence, indicating it to be different from other known IBVs. Vaccination of poultry against IBV is done with both live attenuated and inactivated (usually oil-adjuvanted) vaccines. Live vaccines are used especially in young birds to achieve early protection against challenge and also for priming of future layers and breeders, while booster vaccination is generally done with the inactivated vaccines. The duration as well magnitude of response to vaccination depends on age of the birds, maternal immunity level and route or method of vaccine administration. Chickens which have been well-vaccinated are protected against virulent homologous IBV strain.

Infectious bursal disease (IBD)

Infectious bursal disease is a highly contagious disease of young poultry caused by birnavirus, affecting lymphoid tissue with predilection for Bursa of fabricius, spleen and caecal tonsils. B-lymphocytes are the main target cells. It results in long-lasting immunosuppression and profound economic losses. The period of greatest susceptibility is between 3-6 weeks of age in broiler chicks whereas in layer chicks from 6-12 weeks of age but it may occur upto 20 weeks of age. Signs include depression, greenish-white diarrhea, soiled vents, anorexia, ruffled feathers, reluctance to move, closed eyes and death. The haemorrhages in thigh and pectoral muscles and sometimes on the mucosa

of the proventriculus and junction of gizzard are typical findings. The bursa is first enlarged, inflamed, oedematous and cream coloured, after about 3-8 days it atrophies. Vaccination of breeders and young chicks is the best means of control. A variety of live and inactivated vaccines has been developed to enhance the control of classical, variant and vvIBD challenges.

Avian Campylobacteriosis

Avian hosts serve as a natural reservoir for *Campylobacter* species, primarily *Campylobacter jejuni* and *Campylobacter coli*, and poultry flocks frequently have colonized in the intestinal tract with high numbers of the organisms. *Campylobacter* act as commensal for poultry while in some birds distention of the jejunum, disseminated hemorrhagic enteritis, and in some cases, focal hepatic necrosis. Antibiotics such as erythromycin can be administered in drinking water for treatment. Galliformes should be given a dosage of 10–30 mg/kg for 4 consecutive days, and Psittaciformes and exotics should be medicated at 30–40 mg/kg.

Mycoplasma synoviae infection in broiler breeder

Mycoplasma synoviae causes infectious synovitis and leads to economic losses because of decreased egg production, growth, hatchability rates and downgrading carcasses at slaughter due to airsacculitis and arthritis. Difficulty in eradicating *M. synoviae* from commercial poultry flocks is largely due to the ability of these organisms to establish lifelong infections and to spread by horizontal and vertical transmission. An infection during egg production, especially during the peak of production, will lead to a dramatic decline in egg production. *M. synoviae* infected breeders progeny may have increased condemnation, poor feed conversion ratio and poor weight gain.

Reovirus in broiler chicken

Viral arthritis is an economically important disease of chickens caused by different serotypes and pathotypes of avian reovirus (ARV). Tenosynovitis which is defined as the

changes in tendons and their sheaths, can be considered different from the condition caused by *M. synoviae*. Some reoviruses are having an arthrotropic characteristic that includes ruptured gastrocnemius tendons, pericarditis, myocarditis, hydropericardium, uneven growth and mortality. Lameness is present with lesions due to enlargement in the area of gastrocnemius or digital flexor tendons. Primary affections of metatarsal extensor and digital flexor tendons, along with heterophil infiltration in heart, help to differentiate the infection from bacterial and mycoplasmal synovitis. Chickens are most susceptible to at 1 day of age and develop an age associated resistance from second week onwards. Vaccination of breeding stock can be carried out with live attenuated or inactivated reovirus vaccines.

Conclusion

The increasing human population throughout the world will pose great challenge on poultry industry in the coming years by keeping poultry in top priorities in livestock sector. Knowledge of the re-emerging diseases and hence their control together with new strategies to combat the disease may lead to success.

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Addressing the growing importance of phyto-genics in poultry health and nutrition, **Dr. K. N. Reddy**, CEO and Director of Natural Remedies, highlighted the company's customer-centric approach. "Our focus has always been on understanding global customer needs and addressing their challenges," Dr. Reddy remarked during a discussion on company growth at Poultry India Expo. "Today's nutritionists are paying closer attention to poultry diets to ensure optimal productivity. The industry is increasingly recognising the vital role of phyto-genics in enhancing poultry health and performance. We



believe phyto-genics represent the future of livestock farming, offering effective, natural solutions for disease prevention and overall performance."

Natural Remedies' phyto-genic solutions are designed to support birds' immune systems, promote gut health, and enhance natural defence and productivity. Beyond improving poultry health, these solutions contribute to the industry's broader goals of sustainability and responsible farming practices.

Sustainability remains a cornerstone of Natural Remedies' mission. During the event, Sushant Datta, General Manager (Marketing), emphasised the company's dedication to integrating sustainability into every facet of its operations. "Sustainability is at the heart of what we do," Datta shared. "Whether through our innovative phyto-genic solutions or by promoting green energy, we are committed to supporting nature positively. Our flagship solution, Kolin Plus, has already reduced 1 billion tonnes of carbon emissions. Looking ahead, we are determined to become a carbon-neutral





company by 2030 through continuous innovation and strategic planning." This commitment underscores how phyto-genics are more than just health enhancers - they are vital to ensuring the long-term sustainability of the poultry industry.

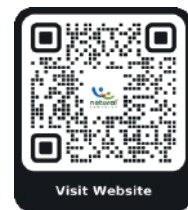
Natural Remedies' presence at Poultry India Expo 2024 was both impactful and engaging. The company's workshops and interactive sessions drew key customers eager to learn more about their pioneering phyto-genic solutions. Srikanth Mittapalli, Vice President of Sales, reflected on the event's success: "We are both proud and humbled by the overwhelming response we received. By working closely with customers, partners, governments, and organisations, we can address the critical challenges facing the poultry industry through



our phyto-genic solutions." Mittapalli added, "Our mission extends beyond improving poultry health and productivity. We are committed to advancing in adding value at all possible phases throughout the bird's lifespan while ensuring our efforts contribute positively to the environment."

Natural Remedies a pioneer in animal healthcare, has over three decades of expertise in the industry. Originating in India, the company has established a global presence spanning more than 45 countries. Natural Remedies specialises in formulating innovative livestock, poultry, and aqua healthcare solutions that blend traditional knowledge derived from nature with cutting-edge scientific research.

As enablers of safe food production, Natural Remedies focuses on developing phyto-genic solutions as alternatives to chemical products. These solutions are designed to be safe, effective, and reliable, prioritizing animal healthcare while promoting sustainability. The company's core value of 'Being Useful' drives its commitment to making a positive impact on the environment, aiming to create a better world for current and future generations.



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Striving for immunized GUT, Healthy Digestion
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Optimizes
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Prevents
diseases



Enhance
performance



Benefits

01

Improve gut health by supporting growth of gut friendly bacteria

02

Improve feed efficiency and Performance of the bird

03

Induces resistance to environmental transition stress impact on gut health

04

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05

Higher and faster return on investment

06

The best immuno modulator and enrich appetite of bird

07

Inhibits growth of pathogens like Clostridium perfringens, Salmonella species and E. Coli

08

Introduction of secondary metabolites strengthens Villi integrity for effective nutrients absorption

Dosage

UT VENBIOL GOLD
500gm/ metric ton
of feed

Composition

Preparation of *bacillus subtilis* DSM 32540, *bacillus amyloliquefaciens* CECT 5940 and calcium carbonate as a carrier with a minimum guaranteed concentration of 2×10^9 CFU/gm of product.



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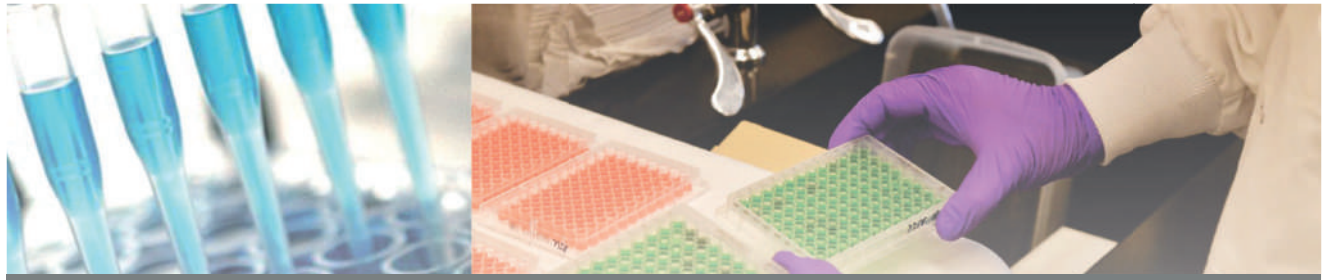
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ABTL

GLIMPSE FROM THE 16TH EDITION OF POULTRY INDIA EXHIBITION



The poultry sector is a vital component of our agricultural landscape, contributing immensely to the livelihoods of millions & ensuring food security across the nation. The poultry industry is undergoing a transformation driven by technological advancements and innovations, making farming practices more efficient and productive year after year.



ABTL

EVERLASTING MEMORIES FROM THE POULTRY INDIA EXHIBITION



Since its inception in the year 2007; ABTL has been the key member of Poultry India Expo and as always, this 16th edition of Poultry India Expo provided us a unique platform to showcased our latest products, technologies in poultry farming, to interact, forge new partnerships, and helped us in navigating the challenges & opportunities for growth and development within the poultry industry.



ABTL

EVERLASTING MEMORIES FROM THE POULTRY INDIA EXHIBITION



Each year, we display new technologies and remarkable solutions that aimed at enhancing efficiency, sustainability, and quality standards across the poultry supply chain. As we face both opportunities & challenges in an evolving market, we are confident that the insights and resources shared during this event will empower all stakeholders to achieve new milestones.

ABTL

EVERLASTING MEMORIES FROM THE POULTRY INDIA EXHIBITION



ABTL always aims to create a nation that is both economically prosperous & healthily maintained. We are not just advancing technology; we are creating a sustainable path forward for poultry farming both domestically & globally. We assist our customers in building more sustainable businesses and documenting environmental benefits





EVERLASTING MEMORIES FROM THE POULTRY INDIA EXHIBITION

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Many of our customers are experiencing fluctuating raw material prices due to volatile markets. ABTL's enzymatic solutions help customers reduce raw material costs by improving raw material efficiency with more sustainable alternatives.

We help our customers reduce carbon footprint through the application of our Enzymes and BioSolutions.

Lastly, I would like to extend my gratitude to all the delegates, stakeholders, partners for their unwavering support and making it successful by their presence.

MR. SUMIT SIPANY

Assistant Manager - Marketing



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NATIONAL EGG CO-ORDINATION COMMITTEE
DAILY/MONTHLY EGG PRICES SUGGESTED BY NECC AND PREVAILING PRICES AT VARIOUS PRODUCTION CENTRES (PC) AND CONSUMPTION CENTRE (CC)
FOR THE MONTH OF DECEMBER_2024

Table with columns: Name Of Zone / Day, 1-31, Average. Rows include cities like Ahmedabad, Ajmer, Barwala, Bengaluru (CC), Brahmapur (OD), Chennai (CC), Chittoor, Delhi (CC), E.Godavari, Hospet, Hyderabad, Jabalpur, Kolkata (WB), Ludhiana, Mumbai (CC), Mysuru, Namakkal, Pune, Raipur, Surat, Vijayawada, Vizag, W.Godavari, Warangal, and Prevailing Prices. Each row contains 31 daily price values and an average value.

Vesper's



VES-PHASE 1

COMPOSITION PER 10KG

Ves- phase 1 : A brilliant combination of Vitamins premix , minerals premix with phytase, lysine, methionine, lipolytic, toxinbinder, choline, acidifier, multienzyme, probiotics and growth promoters

VES-PHASE 2

COMPOSITION PER 10KG

Ves- phase 2 : A brilliant combination of Vitamins premix , minerals premix with phytase, lysine, methionine, lipolytic, toxinbinder, choline, acidifier, multienzyme, probiotics and egg shell enhancers.

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Recommended for the vaccination of breeders, broilers and replacement pullets against Newcastle Disease in poultry.

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Soya lecithin

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- Optimizes growth, feed conversion rate (FCR), egg production, livability, and hatchability.
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- Helps prevent perosis and leg weakness.
- Assists in optimizing lipid and carbohydrate metabolism and improves energy utilization.

Mixing Ratio:

Broiler/Layer: 500 g per ton of feed or as per nutritionist/veterinarian guidance*
Breeders: 500g-1 kg per ton of feed or as per nutritionist/veterinarian guidance*

*500 g of HimChol-P can replace 1 kg of synthetic choline chloride (60%)

#Compared to similar products in market



*Creative Visualization

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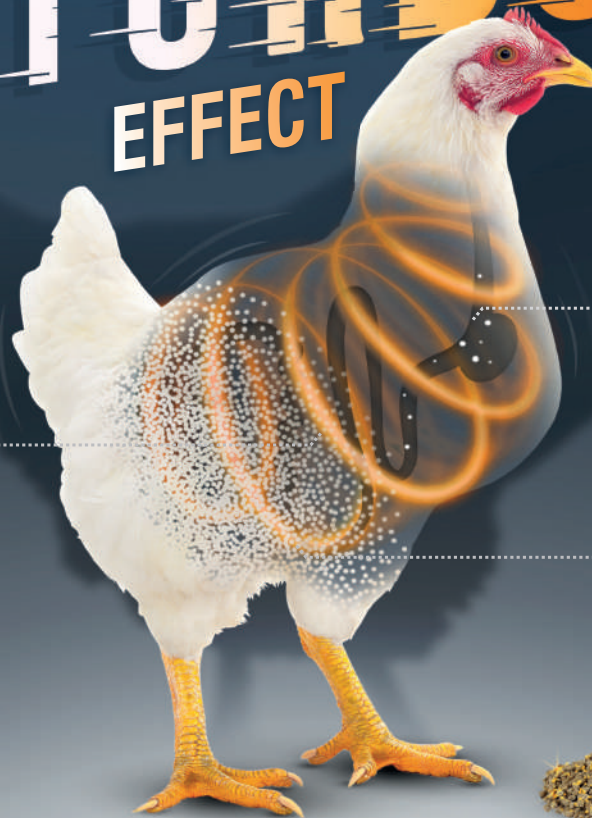
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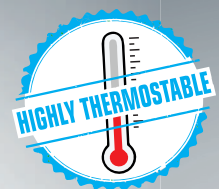
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Venkateshwara B. V Biocorp Pvt. Ltd conducted technical seminars on Pumipro- a unique probiotic for commercial broilers

Venkateshwara B. V Biocorp Pvt. Ltd conducted 4 technical seminars on Pumipro for broiler integrators at Nashik, Hyderabad, Kolkata and Karnal in Dec. 2024.

On 16th Dec. 2024, Nashik, Maharashtra.

The seminar opened with an impactful presentation by Dr. Ivan Rychlik on addressing understanding the gut micro-biota in chickens. Then Dr. C. B Pande, technical consultant, Lallemand Animal nutrition, France shared insightful information on Pumipro product, discussed about unique strain of Bacillus Pumilus as a ideal probiotics enzymatic activity in commercial broilers for improving gut health and performance. Afterwards, Dr. Sunil Nadgauda, Venkateshwara B. V Biocorp Pvt. Ltd discussed about field trials report on Pumipro and its beneficial effect as compared to Bacillus Subtilis on broiler growth performance and feed conversion.



On 17th Dec. 2024, Hyderabad.



The seminar kicked off with opening remarks by Mr. Deepak Khosla, GM-Marketing, Venworld. His wise words and insightful advice on the emerging diseases, antibiotics awareness that pushing the Indian poultry into greater economic depression were invaluable. He shared his thoughts on how poultry industry is shifting towards use of probiotics for improving gut health of chickens as well as considering food safety measures. The seminar started with an impressive presentation by Dr. Ivan Rychlik on addressing the gut microbiota in chickens. Then Dr. C. B Pande,

technical consultant, Lallemand Animal nutrition, France discussed importance of probiotics and how Pumipro product helps to enhance profit and diminish the losses in commercial broilers. Thenafter, Dr. Datta Kulkarni, Venkateshwara B. V Biocorp Pvt. Ltd addressed regional field trials on Pumipro product, discussed significant impact of Bacillus Pumillus on broiler average body weight gain and FCR as compared to Bacillus Subtilis.



On 18th Dec. 2024, Kolkata.

The programme began with warm welcome and opening speech by Mr. Deepak Khosla, GM-Marketing, Venworld provided invaluable insights into the challenges and solutions for optimizing birds performance and tackling antimicrobial resistance – issues of paramount importance in today’s poultry industry. After opening remarks, Dr. Ivan Rychlik addressed the importance of gut

micro-biota in chickens. Then Dr. C. B Pande, technical consultant, Lallemand Animal nutrition, France discussed regarding how Bacillus Pumillus strain helps to modulate the gut microbiota balance by enhancing beneficial bacteria and limiting undesirable bacteria. Dr. Datta Kulkarni, Venkateshwara B. V Biocorp Pvt. Ltd addressed regional field trials on Pumipro product, discussed beneficial effect on growth performance of Bacillus Pumillus compared to Bacillus Subtilis.



On 20th Dec. 2024, Karnal, Haryana
The program was meticulously orchestrated. The seminar started with presentation by Dr. Ivan Rychlik discussed how gut micro-flora is important for healthy chicken. Dr. C. B Pande, technical consultant, Lallemand Animal nutrition, France shared powerful presentation on Pumipro product, discussed how Pumipro makes an exclusive probiotics globally that has both probiotic as well as enzymatic activity (protease and lipase) which have dual benefits in commercial broilers. Dr. Sunil Jadhav addressed zootechnical performance of Pumipro, showing better growth performance of Bacillus Pumillus vs. Bacillus Subtilis.



These technical seminars were very insightful for all broiler integrators.

Venkateshwara B. V Biocorp Pvt. Ltd organized Layer Farmer meeting on “Organic trace mineral nutrition and gut health management” at Kurukshetra, Haryana

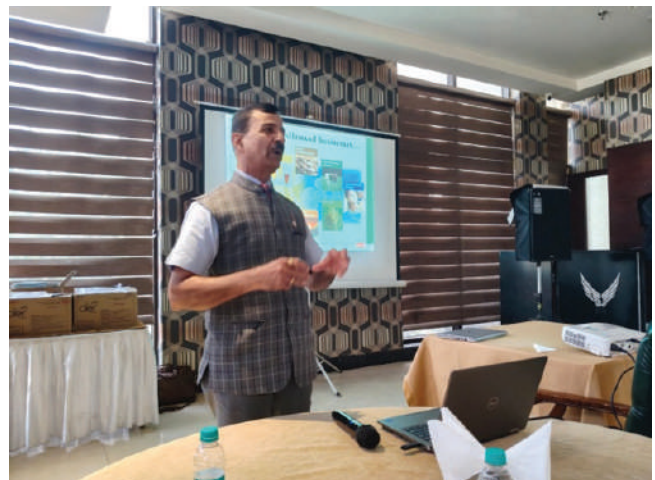
Venkateshwara B. V Biocorp Pvt. Ltd organized layer farmer meetings on “concept and importance of organic trace minerals in layer nutrition and gut health management” on 20th Dec. 2024, Kurukshetra, Haryana.

Mr. H S Padda –DGM, North India welcomed to all layer farmers.



The technical session started with presentation on “**Concept and importance of organic trace minerals in layer nutrition**” **Dr. Sunil Jadhav**, Venkateshwara B. V Biocorp Pvt. Ltd. He discussed about concept of inorganic and organic trace minerals, chelation technology designed to improve mineral bioavailability. In trace minerals, bioavailability is the key for achieving optimum performance. Organic trace minerals (OTM) have

been increasingly used in layer feed due to its higher bio-availability. Feeding highly bio-available organic trace minerals is important for prevention of egg shell breakage, dirty egg, better egg quality, improve egg production and bone development. Further, in egg shell mineralization process, sufficient level of Zn, Cu and Mn plays very critical role. Organic trace minerals come in various forms and structures, but selecting the best one to optimize the bird’s performance is the key. OTMIN-CL is a bis-chelate MHA (methionine hydro-analogue) organic trace minerals, designed as per requirement of modern laying hens to support health and egg shell quality in long laying cycle.



Dr. C B Pande, Lallemand Animal Nutrition, France, discussed about importance of Gut health management and gut microbiota. How critical is the early development of gut health and strategies to develop the digestive system in early life. He explained that development of early gut microflora is very important for chicks as the digestive tract environment is practically sterile at the time of hatching. The microflora in the gastro intestinal tract grows slowly after hatching. Also, he discussed about unique probiotic formulation product Bactosacc for better gut health, reduction in % of dirty egg, and Bactosacc also improves breast muscle thickness development in rearing period, which is crucial for peak production and consistency of laying.

This technical seminar was very insightful for all layer farmers. **Mr. Shashi Bhushan**, proposed vote of thanks.

Venkateshwara B. V Biocorp Pvt. Ltd organized Layer Farmer meetings on “Optimizing Layer Nutrition” at Shirdi and Nanaj, Maharashtra

Venkateshwara B. V Biocorp Pvt. Ltd organized layer farmer meetings on optimizing layer nutrition on 21st & 22nd Nov. 2024 at Shirdi and Nanaj, Dist. Ahilyanagar, Maharashtra. These meetings were attended by 160 layer farmers.

The main topic was about early chick nutrition and gut health management to optimize the egg production. It provided meaningful information about current and future challenges in layer production and management to all farmers.

The session was started by Mr. Ram Ghate –AGM, West India with warm welcome to all layer farmers.



The technical session started with “Early Chick Nutrition and Gut Health Management”. The keynote speaker Dr. Sunil S. Nadgauda, DGM- Technical and Nutrition Venkateshwara B. V Biocorp Pvt. Ltd, discussed about how critical is the early chick nutrition for developing gut health and strategies to develop the digestive system in early life. He explained that development of early gut microflora is very important for chicks as the digestive tract is practically sterile environment at the time of hatching. The microflora in the gastro intestinal tract grows slowly after hatching. Also, he discussed about pullet and layer nutrition useful for improving performance with optimizing the cost.



Laying hens’ productivity has changed dramatically over the last few years. The modern-day laying hen can produce 500 eggs in 100 weeks with improved feed efficiency. Preparation of good laying hen is of prime importance and needs to be considered from the chick’s stage. We can produce a good laying hen by producing a good pullet. It is very difficult to produce a good laying hen out of a poor pullet.



Another important topic was “Eggxtra 5% layer composite premixes for quality feed production”. Dr. Sunil Jadhav, Manager-Technical, Venkateshwara B. V Biocorp Pvt. Ltd. discussed about the practical difficulties while preparing well balanced composite premixes at feed mill level and one stop solutions for that. He further explained that uniform homogenous mixing and dispersion of different macro and micro ingredients are very critical for quality feed production.



This technical seminar was very insightful for all layer farmers.



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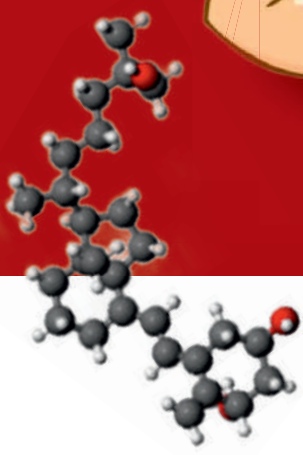
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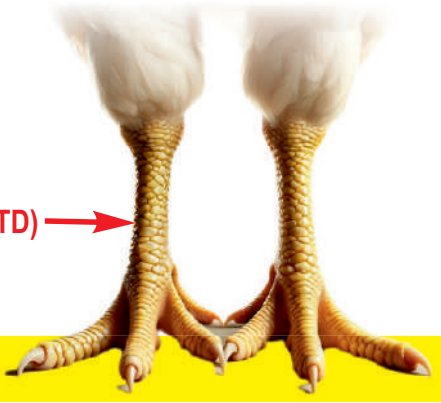


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A Mega Launch event - Calcitriol-D by Glocrest Pharma at Poultry India, Hitex City, Hyderabad

We proudly unveiled Calcitriol-D, our revolutionary product from the Netherlands, at Hotel Novotel during the Poultry India Expo. This launch marks a new era in poultry Nutrition, empowering better health and productivity for flocks worldwide. The event witnessed the grand presence of renowned consultants, breeders, integrators, and layer farmers from across India, Nepal, and Sri Lanka, who were the key witnesses of this remarkable launch. The company and product profile was eloquently presented by our respected CEO- Dr. Ramdas S Kambale, while our keynote speaker, S.V. Rama Rao - the renowned scientist, shared invaluable perspectives on various derivatives of Vitamin-D3. Calcitriol-D: This nutritional revolution is set to benefit all stakeholders in the poultry industry. Together, we're shaping a healthier future in the poultry industry.

Contact us for more details: ramdas@glocrestpharma.com

ABOUT US

Caring about life, that is our core business

GLOCREST is a global animal health venture of Krishna Group - prestigious poultry and agricultural conglomerate. Being an industry pioneer, GLOCREST & its peers, has more than half a century of combined expertise in the development and manufacturing of nutrition products. Our customers include everyone from small and large farmers, to integrations and dealers. We aim to provide them with nutritional solutions that ensure maximum animal health and performance.

Revolutionizing Animal Nutrition Globally Through Innovation & Technology.

GLOCREST is combining decades of experience with unparalleled research capabilities. helping you achieve optimal animal nutrition, feed quality, pathogen control, pharmaceutical solutions, and more.





New NOVUS Leader says Reliability Matters to Customers in South Central Asia



BENGALURU, INDIA (December 2, 2024) – The NOVUS commercial team in South Central Asia has one of its own leading the way.

Dr. Koushik De, who has been with the intelligent nutrition company for 12 years, was recently named sales director for the poultry business in South Central Asia (SCA). Working from the office in Bangalore, India, he is charged with driving sales and strategy, working closely with the technical services and sales teams on how to best support customers with solutions like MINTREX® Bis-Chelated Trace Minerals, CIBENZA® Enzyme Feed Additive, and AVIMATRIX® Feed Solution among others.

“My aim is for customers to understand that NOVUS is a reliable partner, ready to address key industry challenges like meat quality and getting more from raw feed,” he says. “By providing solutions that show clear value and benefit to our customers, we can be the ones they turn to, helping them meet their goals and have their animals meet their growth potential.”

Having most recently spent his career at NOVUS as technical services director, Koushik has a deep understanding of the poultry industry in SCA. He recognizes the unique position producers, nutritionists and feed mills face in the region.

“On one side there’s the growing middle class that demands high-quality meat, which is a good thing but can be difficult to achieve when faced with disease, feed quality and meat quality issues,” he

says. “Education and science have never been more important for the industry. Producers, nutritionists and feed mills need to understand the nutrition options when it comes to addressing these issues while also ensuring the additives they choose are backed by scientific results to ensure positive results.”

In his new role, Koushik says the commercial team will understand the addressable challenges NOVUS can aid in, providing guidance on both nutrition and management.

“For instance, feed quality and cost are a concern. Our CIBENZA® DP100 Enzyme Feed Additive is shown to enhance digestibility and nutrient absorption, which helps lower the cost of feed. We also offer support and training to optimize feed formulations and manage ingredient variability,” he says. “This is just one example of how the team in South Central Asia is offering more to our poultry customers.”

, NOVUS Regional Director-South Central Asia, says with nearly two decades of experience, Koushik brings a wealth of technical, commercial and customer service experience to the role.

“I’m thrilled to have Dr. Koushik on board as sales director for the poultry segment for South Central Asia,” he says. “With his deep industry knowledge and proven track record in driving sales and fostering customer relationships, I am confident that he will make a significant impact on our poultry business and help us continue to deliver value to our customers and partners through our intelligent nutrition solutions across the region.”

To learn about the solutions NOVUS offers for the animal agriculture industry in South Central Asia, visit novusint.com.

Novus International, Inc. is the intelligent nutrition company. We combine global scientific research with local insights to develop innovative, advanced technology to help protein producers around the world achieve better results. NOVUS is privately owned by Mitsui & Co., Ltd. and Nippon Soda Co., Ltd. Headquartered in Chesterfield, Missouri, U.S.A. novusint.com.



NOVUS Launches Resource for Dairy, Swine and Poultry Industries

CHESTERFIELD, MISSOURI (December 10, 2024) – Novus International proudly announces the launch of its new global website, www.novusint.com, designed as a comprehensive resource for the dairy, swine and poultry sectors.

Available in English, French, Portuguese, and Spanish, the website addresses pressing challenges faced by today’s animal agriculture industry, providing solutions and insights for farmers, nutritionists, feed mills, and veterinarians worldwide.

“Being a trusted partner for our customers is our priority,” says Global Marketing Communications Sr. Manager Megan Hayes. “We support animal health, welfare and performance through intelligent nutrition and our new website makes it easier than ever for customers to find solutions that support their production goals.”

The website’s intuitive design and targeted navigation make it simple for users to access information on NOVUS methionine, trace mineral, enzyme, and eubiotic solutions. With clear and concise content, the website emphasizes the company’s commitment to delivering “more” – as reflected in the company slogan, Made of More™ – through innovative features that set NOVUS products apart.

“Methionine sources that are nitrogen-free,

trace minerals with a methionine component, protected organic acids for an improved return on investment – these are just a few ways our products provide added value,” says Senior Vice President and Chief Commercial Officer Ed Galo. “To meet performance and financial targets, producers need reliable feed solutions that offer something more; those are NOVUS products.”

The new website also features management and nutrition tips from experts as well as up-to-date company news, and information about upcoming industry events where customers can connect with NOVUS representatives.

Additionally, users can explore company offerings such as the Automated Inventory Management System (AIMS®) and the Scale Up™ program, along with career opportunities. Easy-to-use contact forms throughout the site facilitate quick and efficient outreach to those at NOVUS.

“Our website is an extension of the NOVUS experience customers encounter in the field, reflecting our dedication to helping animals achieve their full potential through advanced technologies rooted in scientific research,” adds Hayes.

To experience the website, visit www.novusint.com.



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PARTICIPATION OF HIPRA INDIA IN POULTRY INDIA EXPO

HIPRA INDIA Strengthens Its Position in Hatchery vaccination segment with most advance vaccine application technologies at the India Poultry Exhibition 2024

Once again, HIPRA INDIA participated in the largest poultry exhibition in Southeast Asia, which gathered over 250 + companies and attracted a record-breaking 42,300 visitors in 3 days. This milestone underscores the growing importance and scale of the poultry sector in India.

At HIPRA's booth, a wide range of products and services were showcased, highlighting the company's successful partnership with the Dutch leader in hatchery equipment, ROYAL PAS REFORM. The event saw the full participation of HIPRA's sales and technical teams, led by Business Manager -Dr. Shyam Vane. Regional representatives such as Dr. Myong Seb Kim (Allen), RTMS, and Dr. Santiago, Regional Manager along with global poultry experts like Dr. Livia Maria Soares Queiroz, Global Franchise Manager -Hatchery vaccination added significant value to the booth along with colleagues from RPR like Mr.Venka and Mr.Bouke and its activities during the three intense days of the exhibition.

The event has been rated as a tremendous success, with more than 1000+ visitors stopping by HIPRA's stall to learn about the

latest innovations and discuss how HIPRA can support their daily operations. Esteemed customers, including Premium Chicks, Indian Broilers, Sneha, Shalimar, Shanti Feeds, Skylark, Srinivasa, Lifeline Feeds, Swami Feeds, OM Chicks, Hari om Feeds , Basu Chicks ,Sur Feeds ,Baramati Agro, Kasturi Farms, Kwality Group, Swapnil Agro ,Godrej etc. And several renowned consultants, were among the prominent attendees.

With this remarkable presence, HIPRA INDIA is gearing up to make history once again next year by achieving another record-breaking performance for sure.

We are very much thankful to all customers and distributors who has shown faith in HIPRA over the years and we are going to deliver the best in future too.





BACKYARD DUCK FARMING: EMERGING TRENDS IN INDIA

B.K. Ojha, Kumar Govil, J.S. Rajoriya, A.K. Singh and Alok Mishra¹
College of Veterinary Science and Animal Husbandry Kuthulia, Rewa- 486001, Madhya Pradesh, India
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¹Assistant Professor, BRD PG College, Deoria, U.P.

Ducks are more productive and yield about 25 eggs more than courtyard chicken. Moreover, the Size of the duck egg is 10-15 gram greater than chicken egg. They have more profitable and prolific life because they lay eggs during second and third year also. Hence it will decrease the nourish cost. In general, ducks have the habit of laying eggs in the morning time since it is very easy to collect those eggs and have no fear about the missing of the eggs. Duck farming is having interdependent association with paddy cultivation, so paddy cultivation and ducks can be combined in the whole paddy agriculture extents. These are reasonably intellectual birds and they can be simply skilled for their everyday routine and it decreases the labour for supervision. They are pretty resilient birds and can be definitely agonized and are unaffected to common avian diseases. Broiler or green ducks are very fast developing than chicken, with improved growth ratio and feed proficiency. In India, duck farming is an emerging and can be developed by many places by the farmers on their own interest. It desires lot of consciousness in people for its improvement in prospecting future. Duck farming is a very lucrative business. Ducks are highly valuable birds around the world, reared for egg and meat production.

Ducks occupy an important position next to chicken farming in India. They form about 10% of the total poultry population and contribute about 6-7% of total eggs produced in the country. The duck, till recently, was practically reared only by the small and marginal farmers mostly in the Southern and Eastern coastal areas, North-eastern India

and Jammu and Kashmir. People keep ducks for different reasons. Some keep ducks for breeding; others keep ducks for the meat or duck eggs, or both. Others may keep ducks to keep down the fly population on a farm that has livestock.

Advantages of backyard duck farming: Backyard Duck farming is easy because of the following advantages when compared to the rearing of other species:

- Ducks require lesser attention and thrive well in scavenging conditions.
- Need less space for raising ducks
- Highly resistant to common avian diseases
- Can eat all types of feed available
- Ducks lay more egg per bird per year than chicken.
- The size of the duck egg is larger than hen egg by about 15 to 20 gms
- Have a longer profitable life. They lay well even in the second
- Ducks are quite hardy, more easily brooded.
- Ducks lay 95 – 98% of their eggs in the morning before 9.00 AM.

Thus save a lot of time and labour.

Systems of Duck Rearing: There are many ways in which ducks can be reared. In practice farmers can adapt this rearing system to their own needs and the materials available.

Free range system: The ducks are only kept enclosed at night. During the day the ducks

are free to roam outside in search of feed. They are brought inside at night by putting some extra feed in the shelter. The ducks only require night shelter and nests for laying eggs. Ducks will stay around the place, provided you treat them well. An advantage of this system is that the ducks go to the feed and harvest it themselves. This way, nutrients become available that the farmer cannot reach otherwise.

Confined system: The ducks are kept enclosed permanently, either in a covered shelter (indoor system) or with a run in the open. The ducks stay in the same place. It is easy to keep an eye on them and check them. An outside run makes it easier to give the ducks access to water, as a pond can be put in the open run area.

Indoor system: The indoor system is for large-scale duck farms, where the production is mechanized to reduce labour costs. The system requires more investment than the other two systems of housing. Farmer has to provide all feed and water and clean it regularly. If properly managed, growth can be fast and production cheap. Provide a large shallow container with water so that ducks can wash and bathe. Like open drinkers they should be located over a drained area covered with wire or slatted floor.

Integrated Duck Rearing Systems: Duck keeping combine well with other forms of farming. In these systems the different forms of production complement each other and the farmer will have better production and more profit. Waste and by-products are used. It covers two well-known integrated systems.

Duck keeping combined with paddy cultivation: In paddy fields ducks eat harmful insects and snails, this is a help for the paddy and at the same time the ducks get nutritious feed. The farmer spreads risks. For example if the rice yield is low there is still a yield of eggs and duck meat. Migratory duck farming

is a method of duck farming practiced by the poor agricultural laborers in South India. Farmer starts duck farming during December by rearing ducklings. Ducklings were obtained from large farmers. By February as the harvest of second crop of paddy is over the laborers starts migration with the ducks. The paddy cultivators of Tamil Nadu and Kerala generally welcome the ducks. The ducks feed on left away paddy grains on the field as well as snails and small fishes. Water stirring caused by the ducks activities inhibits the growth of weeds through photosynthesis reduction when the water becomes turbid. Their activities also enhance the rice root, stalk and leaf development, thereby accelerating rice growth. In addition, a reduced application of pesticides and fertilizers benefits the ecological system. During night the ducks are stays on the fields. One or two hours after sunrise, the ducks are released, by which time egg laying is almost completed and eggs can easily be collected. Owners of the land are given duck eggs as remuneration. The ducks grows well by feeding on paddy fields and the fields in turn become fertile by duck castings.

Duck keeping combined with fish ponds: The waste from the duck shed can be recycled and may be used for fish culture in integrated duck-fish farming. This increases the production of natural food in the ponds, which in turn enhances the fish production. By integrating the duck and fish culture, more returns can be achieved. This gives 4 the good benefits to the farmers. If the ducks are allowed to swim freely in the fishponds, the waste can be dispersed uniformly in the ponds and it can also be used as a good fertilizer. Because of these, expenses for fertilizer, feed, supplementary feed for fish is minimized. Since the ducks are in the fishponds, it prevents the growth of the aquatic weeds and increases the biological productivity of the ponds. Because of the swimming action of the ducks, the amount of oxygen in the ponds gets increased. Ducks eat

the weeds, insects, larvae, worms etc present in the pond, and hence there is no need to add more additional feed to them. In duck – cum fish culture, fishes with 10 cm length only to be stocked because fishes less than this length may be eaten by the ducks. Fish seeds can be stocked at the rate of 10000 numbers/ ha. Depending upon the nature of the fishpond and the availability of fish seeds the stocking density may vary. Raising of ducks depends upon the type of the species and egg laying capacity. To get more meat and egg from the duck-fish culture, proper management plays a vital role. The shed should be well ventilated and stagnant of waste water should be prevented. For fertilizing 1 ha pond, 200 ducks are sufficient. Ducks get their natural food from the pond itself. The domestic waste, rice bran, broken rice and pulses are more than enough for them. Duck, fish along with paddy cultivation: In the same field where paddy is being cultivated duck and fish can be reared together.

Feeding Management of Ducks: Most of the duck farmers fed with broken rice, rice bran, coconut stem powder or similar products from hatching up to 4 weeks of age. In some places ducklings are given sago and grains purchased from market as feed. According to Reddy, the duck farmers in Tamil Nadu fed their ducklings different diets according to age. After that insect, snails, kitchen waste, paddy grains and weeds are the food sources for ducks in addition to the feed received from foraging. The duck excreta become the fertilizer for the rice paddy. Reddy reported main feeding source for adult ducks were post-harvested paddy fields 5 for grains, ponds and waterlogged areas for fish, snails and insects.

Watering of Ducks: Though ducks are water fowls and fond of water, in contrast to the prevailing myth among farmers, water for swimming is not essential at any stage of rearing . However, water in drinkers or water

channels provided in the house should be sufficiently deep enough to allow the immersion of their heads and not themselves. If they cannot do this, their eyes will get scaly and crusty and in some cases, blindness may follow. In addition, they also clean their bills periodically and wash them to keep it clean.

Brooding of Ducklings: Ducklings may be brooded on wire floor, litter or batteries . The brooding period of layer ducklings is 3-4 weeks. For meat type ducklings, brooding for 2-3 weeks is sufficient. In general, in colder season, brooding period may extend up to 1-2 weeks longer than the regular period. Provide hover space of 90-100 sq.cm per duckling under the brooder. A 100 watt bulb can brood 30-40 ducklings. The temperature of 32°C is maintained during the first week. It is reduced by about 3°C per week till it reaches 24°C during the fourth week. In wire floor, space of 0.5 sq. ft per bird and in litter 1 sq. ft per bird is sufficient up to three weeks of age. Water in the drinkers should be 5.0-7.5 cm deep, just sufficient to drink and not to dip themselves. In deep litter brooding, the thickness of the litter will be 3 cm and above to absorb the excess moisture in the ducks' droppings. In extensive system, no artificial warmth is provided, but the heat of brooding shed is conserved by making "Closed tents" (Tent brooding) to provide the required warmth. The ducks are allowed to swim in water after the brooding period is over.

Grower Management: Ducks may be reared in intensive and semi intensive system. Under intensive system, floor space of 3 sq. ft per bird up to 16 weeks of age is sufficient. Under semi intensive system of rearing, a floor space of 2-2.5 sq. ft per bird for night shelter and 10-12 sq. ft per bird for outside run is necessary for free flow of birds up to 16 weeks. Water in the drinkers should be 10 -12 cm deep to allow the immersion of their heads. Partitions up to the height of 60-90 cm separating the pen and run are adequate for control of ducks.

In rural duck farming, straight run ducklings (male and female) will be reared up to 10 to 15 weeks of age.

Layer Management: Under intensive system, a floor space of 4 sq. ft per bird is essential. In semi intensive system a floor space of 3 sq. ft per bird for night shelter and 10- 12 sq. ft per bird of outside run space is required. For wet mash feeding 10 cm of feeding space and for dry mash or pellet feeding 7.5 cm of feeding space per bird is required. For the collection of clean hatching eggs, a nest box with 30x30x45 cm dimension shall be provided at the rate of one per three ducks. A light of 14-16 hours is necessary for optimum egg production. The age at first egg and 50 percent egg production are 120, 140 days and the annual egg number is 320 eggs for Khaki Campbell ducks in intensive farming. The daily feed intake during laying period will be 120-140 g. depending on

the rate of egg production and body weight. The body and egg weights at 40 weeks of age are 1.8 kg and 68 grams, respectively.

Breeding Management: The desirable sex ratio for good fertility and hatchability for ducks is 1:6 for intensive rearing and 1:15-20 for extensive rearing system. In extensive system of rearing of rural ducks, farmers keep a wide sex ratio of 1:20-25; however they get a reasonable good fertility of 70-80 percent. Drakes usually mate during swimming.

Health Care: Ducks are more vigorous and less subject to diseases than chicken and turkeys. If diseases occur, it is most likely the result of unsanitary surrounding and faulty management or inherent weakness due to breeding. In order to know whether a duck is sick you first have to know how a healthy duck looks.

Free Lance Poultry Consultant

DR.MANOJ SHUKLA, a renowned poultry Veterinarian, with 20 years of enriched field experience, now started Free Lance Poultry Consultancy. In the past 20 years have contributed to the development of the hatcheries in various capacities of leading companies across India - Maharashtra, Gujarat, Madhya Pradesh, Chhattisgarh, Orissa, Bihar, West Bengal, Jharkhand, North-East, Uttar Pradesh and neighbouring country of Nepal.



His areas of expertise include:

- Commercial Layer Management.
- Commercial Broiler Management
- Nutrition (Feed Formulations).
- Breeder Management.
- Sales & Marketing of Day-Old commercial Layer chicks, Broiler chicks & Poultry Feed.
- Sales & Marketing of Broiler Breeder.
- Integration.
- Training to Field staff.
- Field Trial of Drugs & Feed additives.
- Speaker in Technical Seminars.

He can be Contacted at:- **Dr. Manoj Shukla**

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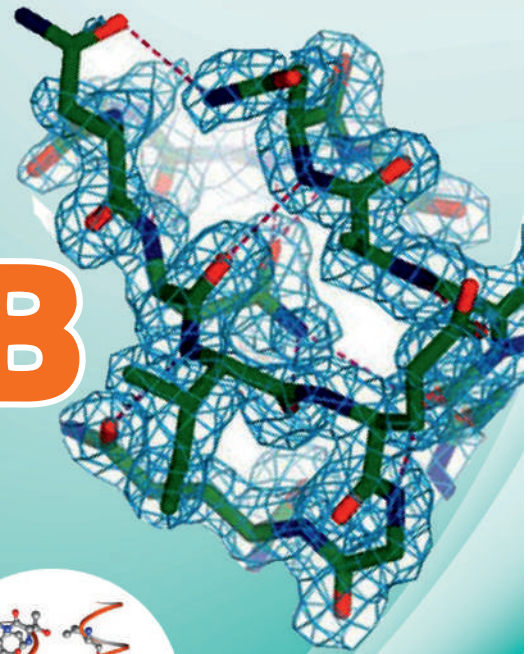
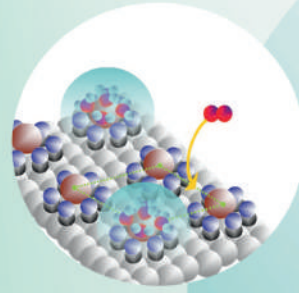
As a strategic partner, Poultry Line wishes Dr. Shukla every success in his new assignment

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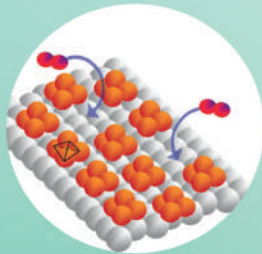
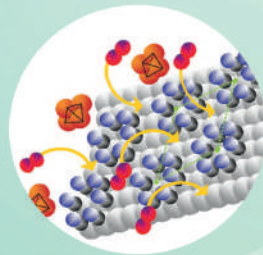
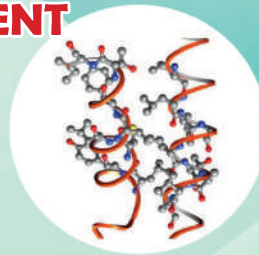
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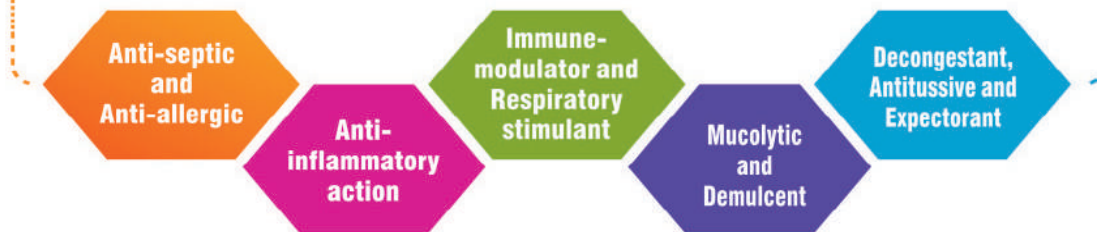
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“UNVEILING PHYTOGENIC EXCELLENCE: INDIAN HERBS TAKES THE SPOTLIGHT AT POULTRY INDIA SHOW 2024”

INDIAN HERBS, a pioneer and global market leader in the Herbal Animal Health Care Industry since 1951, made an impressive impact at the Poultry India Expo 2024, held at the Hitex Exhibition Complex, Hyderabad, India, from November 27–29, 2024. The event witnessed an overwhelming turnout of esteemed business partners, customers, consultants, and poultry nutritionists at the INDIAN HERBS stall, creating an aura of colossal magnificence, making the event a resounding success.

As the forerunner of Veterinary Ayurveda, INDIAN HERBS continues to lead with innovation, offering a wide array of phyto-genic feed supplements and healthcare products. The company's holistic approach, combining 'Traditional Glory and Modern Science,' aims to transform herbalism into a dynamic, scientifically validated, evidence-based discipline. INDIAN HERBS is committed to develop science based innovative phyto-genic solutions for sustainable livestock production.

Addressing Industry Challenges

During this event, we have proudly presented phyto-genic product range and innovations. Recognizing the emerging challenges in the animal industry, INDIAN HERBS showcased the range of natural alternatives in key segments such as antimicrobial growth promoters, immunopotentiators, metabolic stimulants, gut enhancers, respiratory antiseptics, anti-stress and adaptogens. These phyto-genic solutions are uniquely effective due to the synergistic combination of multiple plant-derived bioactives and phyto-compounds. This approach maximizes genetic potential, promoting growth, production & performance, immunity and disease control in livestock species.

At this prestigious expo, INDIAN HERBS proudly launched GutNectar, an advanced product specifically designed to support poultry gut health. GutNectar is a Phyto-Synbiotic, a synergistic combination of phyto-genics, prebiotics and probiotic. This innovative new launch reflects the company's unwavering commitment to addressing critical industry needs with science based and clinically proven solutions.

Extensive Product Portfolio and Research Excellence

With a portfolio of over 230 products for poultry, cattle, swine, equine, aqua and companion animals, INDIAN HERBS adheres strictly to quality norms and regulatory

compliance. The company's core competence lies in its robust research and development efforts. Equipped with state-of-the-art R&D and QC laboratories, the company ensures product quality through herbal standardization, phyto-analytical profiling, scientific trials in collaboration with global research institutes and veterinary universities.

Global Reach and Recognition

INDIAN HERBS products are trusted by leading institutions worldwide and are successfully exported to over 50 countries across Asia, Europe, Latin America, and Africa. The company's excellence is underscored by its certification from the Export Inspection Council of India, Ministry of Commerce and Industry, making it the first herbal company to receive such recognition. Since 1986, the R&D Centre of INDIAN HERBS, approved by the Ministry of Science and Technology, Government of India, has been equipped with modern facilities for herbal product standardization and quality control.

Engaging the Poultry Industry

The INDIAN HERBS stall at Poultry India Expo 2024 attracted significant attention from our patrons, customers, feed millers, integrators, nutritionists and distributors. The technical team adeptly addressed all queries, showcasing the company's expertise and commitment to the animal healthcare industry. Visitors were particularly impressed with the recent research initiatives taken by INDIAN HERBS to validate the safety, efficacy and mechanism of action of phyto-genic products on basis of advanced scientific techniques.

Commitment to Sustainability

Reaffirming its vision of sustainability and global well-being, INDIAN HERBS is dedicated to supporting the animal healthcare industry with innovative phyto-genic solutions. The company extends heartfelt gratitude to its customers, patrons, scientists, and well-wishers for their unwavering support and guidance. Looking ahead, INDIAN HERBS aims to explore new business dimensions while continuing its mission to foster animal well-being through NATURE'S WAY TO ANIMAL HEALTH.

For inquiries, please contact:

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Mitigating Mycotoxin Risks in DDGS: Strategies for Safer and Sustainable Animal Nutrition

Global food demand is projected to increase by 60% by 2050, driven by a growing consumption of meat, milk, and eggs (Alexandratos and Bruinsma, 2012). Significant advancements in animal nutrition and production practices have been introduced and are continuously being integrated into livestock and poultry production systems worldwide.

Feed grains like corn, soybean, wheat, rice, and barley form a significant part of animal diets. However, the animal feed industry primarily relies on these grains as by-products derived from agricultural, human food chain, and industrial processes. In ethanol production, non-starch components are recovered and concentrated (about threefold) in by-products, which are subsequently utilized to replace substantial amounts of corn and soybean meal in animal feeds (U.S. Grain Council).

Distillers Dried Grains with Solubles (DDGS), a by-product of grain ethanol fermentation, is a highly attractive partial replacement for traditional energy (corn), protein (soybean meal), and phosphorus (mono- or dicalcium phosphate) feed ingredients due to its high energy, protein, fiber, and phosphorus content. With the shift in India's agricultural practices, where more corn is being redirected to ethanol production, the availability of DDGS as an animal feed ingredient is expected to rise significantly. Despite its benefits as a cost-effective and nutrient-dense feed ingredient, DDGS presents certain challenges when incorporated into animal diets.

Nutritional Challenges and Contaminants in DDGS

The reduced inclusion of DDGS in feed industry is attributed to:

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Mycotoxins present in the original grain are concentrated approximately threefold during the production of DDGS, posing significant feed safety risks.

- Excessive Sulphur Levels: High sulphur content in DDGS can lead to toxicity issues in livestock if not carefully monitored and controlled.
- Quality Inconsistencies: Variability in drying processes, especially uneven residence times within dryers, can cause inconsistencies in DDGS quality and resulting in heat-damaged proteins that are indigestible and diminish the nutritional value of the feed.

Mycotoxins in DDGS

The concentration of mycotoxins during ethanol production poses significant health risks when DDGS is included in animal diets. Mycotoxins such as aflatoxins, deoxynivalenol, fumonisins, T-2 toxins, ochratoxin, and zearalenone—produced by fungal contamination—can impair animal health, productivity, and performance.

The key factors influencing mycotoxin concentrations in DDGS include

- Grain Procurement: Grain procurement is impacted by climatic factors during cultivation and harvest phases, as well as by the post-harvest handling and storage. High moisture levels during storage increase fungal contamination and mycotoxin production, impacting quality of DDGS during ethanol production.
- Processing Methods: Processing methods are pivotal in determining the final product. Wet processing yields Wet Distillers Grains (WDG) with higher moisture, limiting shelf

life, and increasing the risk of mycotoxin contamination. Dry processing enhances storage and transport capabilities but requires precise heat control to preserve nutrient integrity, particularly lysine.

- **Drying Methods:** Sun drying is cost-effective but prone to variability and contamination risks, while machine and drum drying provide uniformity and stability at higher operational costs. Post-drying cooling is essential to prevent moisture reabsorption.
- **Storage Conditions:** Traditional DDGS have oil content that ranges from 10 to 15%. This suggests that even when DDGS are kept under recommended dry conditions, it might have an increased susceptibility to fungal growth (Garcia, et al. 2008).

Mycotoxin Contamination: Data from Farms and Processing Plants

Several studies highlight the prevalence of mycotoxins in DDGS:

- A study on rice samples revealed 97% contamination, with T-2 toxin (88%), aflatoxins (59%), and ochratoxin (41%) being the most prevalent, often exceeding tolerable limits (Jakkula, 2024).
- Analysis of 409 DDGS samples over five years showed 98% contamination, with only 2% having mycotoxin concentrations below detectable limits (Diaz-Royon, 2016).
- In a study conducted over a year by an animal nutrition company, researchers analyzed mycotoxin content in corn DDGS from across the globe. The study reported widespread mycotoxin contamination. Aflatoxins were detected in all samples (100%) with an average concentration of 42 ppb and a maximum of 183 ppb. Ochratoxin contamination was observed in 95% of the samples, while Zearalenone, T-2 toxin, and Fumonisin were detected in 71%, 82%, and 29% of the samples, respectively.

These findings highlight the pervasive nature of mycotoxin contamination in DDGS, underscoring the need for effective monitoring and mitigation strategies to ensure feed safety and animal health.

Strategies for Mycotoxin Mitigation in DDGS

1. Adsorption:

- **Calcium Montmorillonite:**

The adsorption mechanism of Calcium Montmorillonite is influenced by its physicochemical properties, such as strength, ion exchange capacity, and particle size, which can be altered by thermal effects. Thermal processing enhances its adsorption capacity by expanding the interlaminar space and improving ion exchange capacity. This modified structure effectively adsorbs a broader range of mycotoxins.

- **Yeast Cell Wall Components:**

The adsorption mechanism of YCW involves interactions between β -(1,3)-d-glucans and mycotoxins. These include Van der Waals bonds between the aromatic cycle of mycotoxins and the β -d-glucopyranose ring, as well as hydrogen bonds between functional groups of mycotoxins and glucose units in YCW. The three-dimensional structural match between the mycotoxin and β -d-glucans helix enhances the binding strength.

2. Biotransformation:

- Biotransformation is a promising technology that converts mycotoxins into non-toxic metabolites, with biodegradation offering an efficient, environmentally friendly approach. Bacteria, including *Bacillus subtilis*, play a crucial role in this process by secreting enzymes that degrade mycotoxins, converting them into non-toxic metabolites. *Bacillus subtilis* significantly

reduces mycotoxins and supports gut health by enhancing gut barrier integrity, promoting beneficial bacteria, and reducing disease susceptibility, making it a valuable tool for mycotoxin management.

Conclusion

Distillers Dried Grains with Solubles (DDGS) are a cost-effective and nutrient-rich alternative to traditional feed ingredients, contributing to sustainable animal nutrition. However, the concentration of mycotoxins during ethanol production poses significant challenges to feed safety.

The increased availability of corn DDGS in India, driven by the transition to using corn as a raw material for ethanol production, highlights the critical need for effective mycotoxin management to mitigate associated risks. A multipronged approach, incorporating ADSORPTION with thermally processed Calcium Montmorillonite and yeast cell wall components, and BIOTRANSFORMATION using *Bacillus subtilis*, can effectively mitigate mycotoxin contamination. By implementing these strategies, the safe and efficient use of DDGS can be ensured, safeguarding animal health, productivity, and the sustainability of the food supply chain.





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Hyderabad	115	118	128	128	128	128	128	120	120	110	110	110	100	90	90	90	90	90	95	100	103	105	107	107	107	107	110	110	105	105	-
Karimnagar	115	118	128	128	128	128	128	120	120	110	110	110	100	90	90	90	90	90	95	100	103	105	107	107	107	107	110	110	105	105	-
Warangal	115	118	128	128	128	128	128	120	120	110	110	110	100	90	90	90	90	90	95	100	103	105	107	107	107	107	110	110	105	105	-
Mahaboobnagar	115	118	128	128	128	128	128	120	120	110	110	110	100	90	90	90	90	90	95	100	103	105	107	107	107	107	110	110	105	105	-
Kurnool	115	118	128	128	128	128	128	120	120	110	110	110	100	90	90	90	90	90	95	100	103	105	107	107	107	107	110	110	105	105	-
Vizag	107	107	109	111	111	111	111	111	111	111	111	111	108	103	103	103	103	103	103	103	105	110	115	120	120	120	115	115	115	115	-
Godavari	115	118	123	125	125	125	125	125	120	115	115	117	114	109	109	109	109	109	101	111	113	113	108	108	108	103	106	109	109	109	-
Vijayawada	115	118	123	125	125	125	125	125	120	115	115	117	114	109	109	109	109	109	101	111	113	113	108	108	108	103	106	109	109	109	-
Guntur	118	121	126	126	126	126	126	126	120	115	115	117	110	105	105	103	103	103	103	108	111	111	103	103	103	103	106	109	109	109	-
Ongole	118	121	126	126	126	126	126	126	120	115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Namakkal	113	113	98	98	98	100	104	106	106	106	99	89	91	91	91	86	86	91	93	93	93	78	78	73	73	73	87	92	95	95	-

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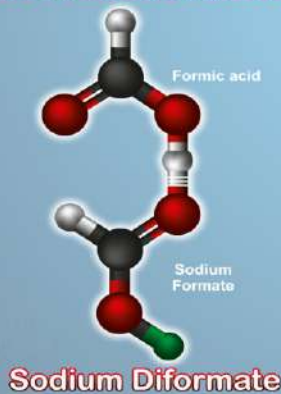
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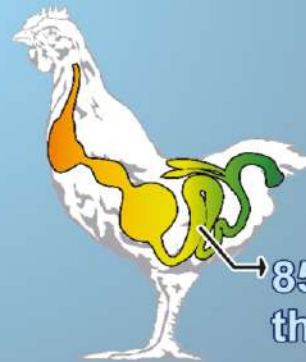
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