

# POULTRYLINE



Readership — Poultry Wide

VOLUME - 23

ISSUE - 1

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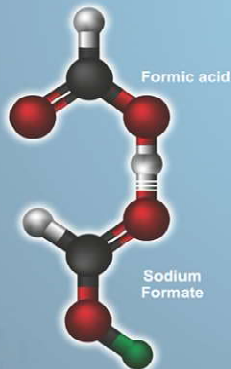


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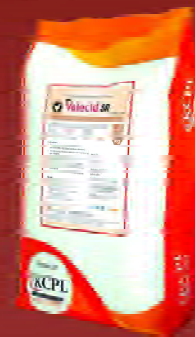


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Poultry Line dedicates January 2023 issue  
in fond memory of Late Padmasri Dr. B.V. Rao garu



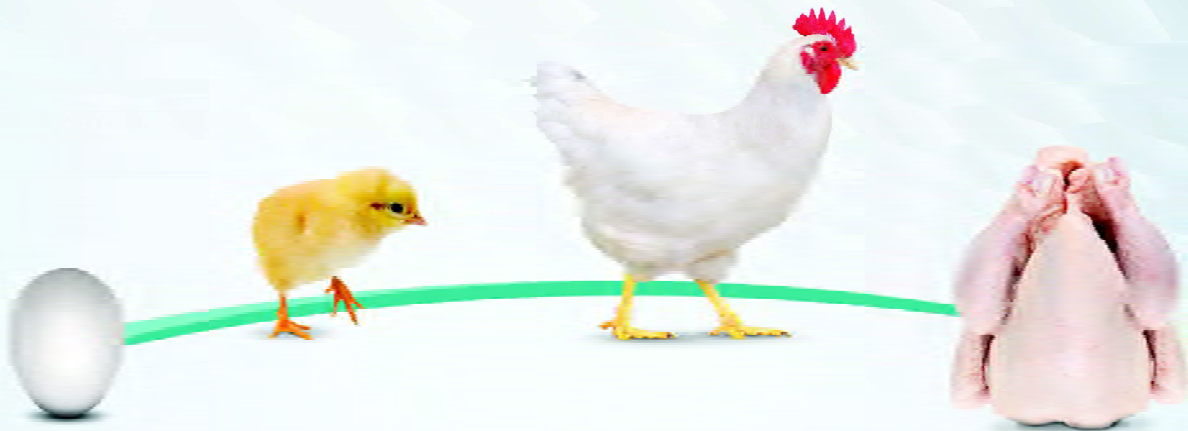
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**Poultry Line may not necessarily  
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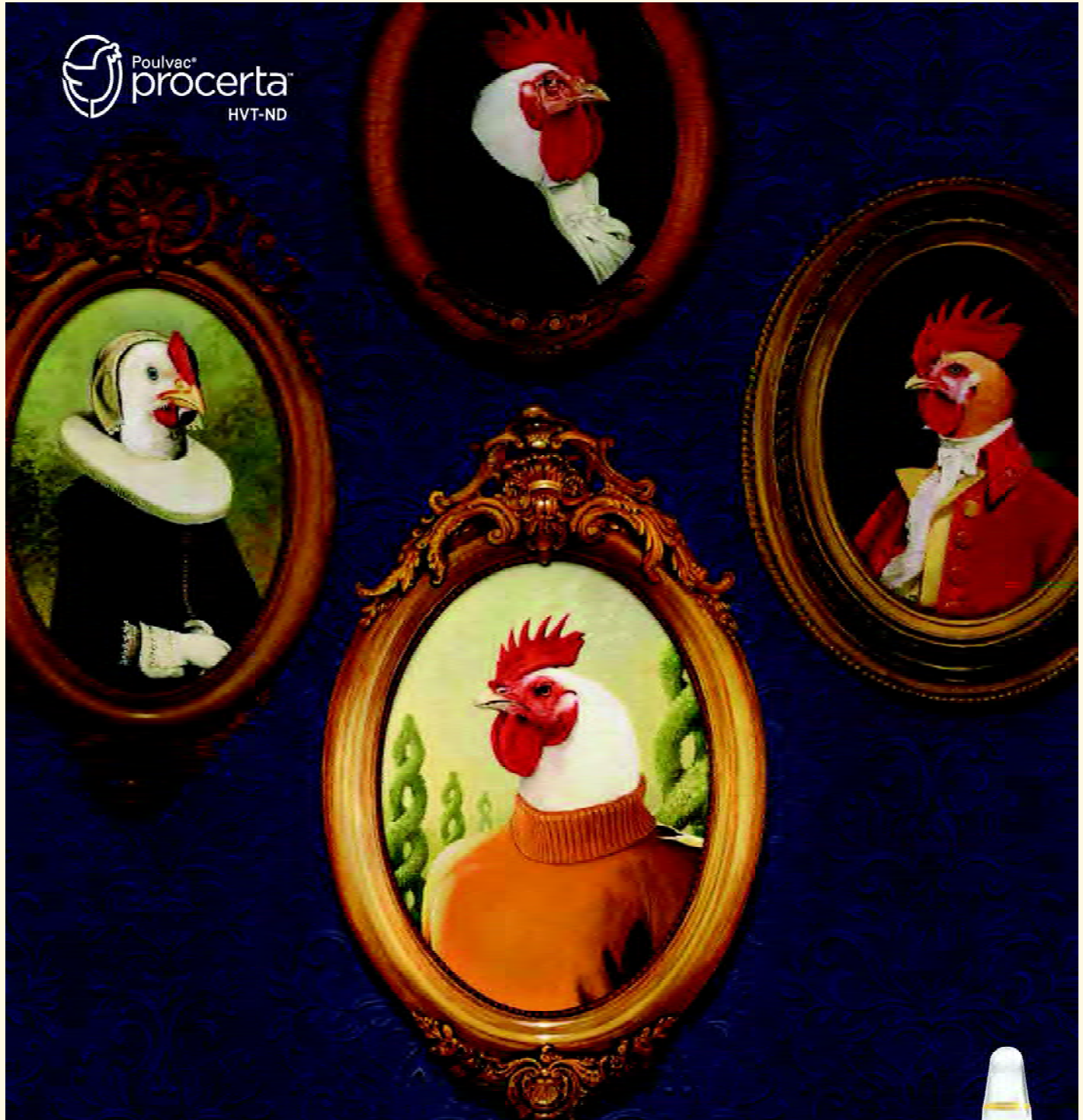


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“

In a recent interview with Engormix - Media Partner from Argentina, Mr. O. P. Singh shared his ideas on the most important concerns of today's time in reference to the Poultry Industry.

”

### Following were the questions asked during the interview :

- In this current market scenario, what are some of the problems the Poultry Industry in the Indian Subcontinent might face soon ?
- What is the role of India as an important player in feeding the world population ?



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## GLIMPSE FROM THE POULTRY INDIA EXHIBITION 2022 AT HITEX, HYDERABAD.





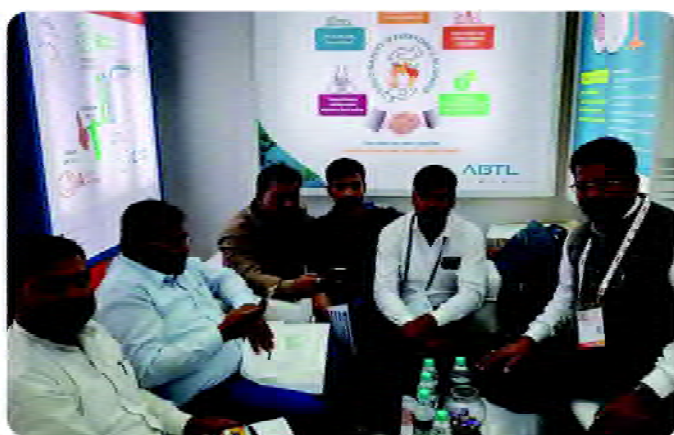
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## EVERLASTING MEMORIES FROM POULTRY INDIA EXHIBITION-2022.



# ABTL

## EVERLASTING MEMORIES FROM POULTRY INDIA EXHIBITION-2022.



Looking back I can say that the Poultry India Exhibition was a very successful exhibition. Glad to meet our esteemed customers/ stakeholders /friends after a long time. I'd like to thank everyone who made it memorable with an everlasting experience.

***"A moment lasts for a second but the memories live on forever".***

**Mr. Sumit Sipany - Product & Marketing Executive, ABTL.**





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Abiding by its philosophy of "making you more competitive" Rossari - AHN empowers poultry producers by providing innovative nutritional solutions and technical updates with present trends & developments on varied subjects of importance for current-day poultry production.

Rossari Animal Health & Nutrition segment recently organised a Technical Knowledge Forum at Hotel Babylon, Raipur on December 07, 2022. During this session, we shared insightful knowledge and recent technological advancements with 50+ poultry breeders & layer farmers, consultants, and business partners of the company.

Followed by the welcome note, Dr Shambhavi presented a brief introduction of the company showcasing its manufacturing strength, R&D & QC developments, our market presence and the flagship brand products.

Dr Sushil Dhariwal, Poultry Consultant & Breeder Expert, had a detailed discussion on Broiler

Breeder Management, Health & Nutrition. Through his vast experience, Dr Dharwial enlightened the audience with facts & checks on the management and nutrition of broiler breeders through different phases of growth & production. Also, Dr Anand Khandwekar, GM - Technical presented a very informative discussion on the Impact & importance of NSP enzymes on gut health & productivity.

We take this moment to thank the audience for this session and encourage them to implement these processes to boost the standard production performance of breeder & layer flocks for maximum profitability.

Regards,

**Dr Aashaq Hussain Ganaie**

AGM - Technical (AHN)

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Weeks Above 90%	: 24	Feed Cost Per Egg Upto 90 Weeks @ Rs. 26/KG	: Rs. 2.94/-
Weeks Above 95%	: 8		
Hen House Eggs	: 402.78		
Cumulative Feed Per Egg	: 113.02 g		

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4. No over sized eggs after 60 weeks

Flock Age	: 89 Weeks	Feed Per Day (Laying Period)	: 100.01 g
Peak Production	: 94.10%	% Achievement of Standard H.H Eggs	: 97.49%
Weeks Above 90%	: 34	Feed Cost Per Egg Upto 89 Weeks @ Rs. 26/KG	: Rs. 3.12/-
Weeks Above 95%	: 15		
Hen House Eggs	: 409.86		
Cumulative Feed Per Egg	: 119.81 g		

I have taken 14 batches of Srinivasa Hy-Line since Srinivasa started supplying. I am a very happy customer due to low feed cost, good egg size & excellent shell strength. Added bonus is Srinivasa's technical support. I strongly recommend SrinivasaHy-Line to flourish in the industry. Hence I made profits even in the last 2 years.

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## Srinivasa Hy-Line India Technical School

Srinivasa Farms, Hy-Line International and Wyldox hosted India Technical School on 21st November 2022 at Hyderabad, to share the latest innovative solutions on “How to make Rs. 150 – 200 more per bird” with Farmers and people connected with the Layer Industry.

The event witnessed huge success with active participation of over 130+ Layer Poultry farmers, consultants and market leaders whose farm’s bird capacity ranging from 10,000 to 20,00,000 from all over India.



**Venkat Rao, Layer Business Head, Srinivasa Farms,** Welcomed and thanked the Poultry Farmers, Esteemed Doctors, Poultry Practitioners, Srinivasa Sales & Technical Services Team from

All India. He created how the school was more of a Techno-Commercial School. Venkat shared how in his visits to farmers all over India, the need today was to calculate cost of production vs looking at HD%



**Mr. Suresh Chitturi, Vice Chairman & Managing Director, Srinivasa Farms** spoke on how W-80 India has evolved from W-80 on building a robust future in layer industry which is an access to make Rs. 150 – 200 more per bird.

Furthermore, he presented economics of W-80 India bird by sharing the performances of Srinivasa Hy-Line farmers who made more than Rs. 250 per bird compared to other breeds. This has opened an opportunity to farmers to think about FCR, Quality and cost of production, which can aid poultry farmers investing in the future of the industry and health of the nation.



**New W-80 India Logo**



**Gustavo Wassermann Global Director of Sales at Hy-Line International,** captured farmers attention by articulating how “Hy-Line W-80 became the World’s Most sustainable choice for High Egg Output, feed

conversion, and eggshell quality. He shared how



Hy-Line with its genetic program is creating 20 more per bird every year to Indian commercial Layer farmers. He also recognized 5 years Partnership of Hy-Line International & Srinivasa Farms and the Launch of Hy-Line W-80 India.



**Dr D. Chandrasekharan,** Professor (Retired), TANUVAS, Namakkal was the next speaker and he passionately created with the audience on “Why to focus on Proper Nutrition and Feed intake to survive and make profits in the changed economic conditions”. His message to the farmers was mainly on how the newer breeds have

better FCR and Egg Quality which is the need of the Indian Layer Poultry Industry.



**H y - L i n e International’s Applied Geneticist, Dr. Petak Settar;** educated farmers about Layer Genetics and the Journey of W-80 India’s evolution. The investment and

passion of the Hy-Line team and Srinivasa Farms’ technical team for the benefit of its farmers paid off, leaving the competitors gasping.

**Vitor Arantes, Global Technical Services Director, H y - L i n e International;** Shared the evolution of W-80 India over the past five years and the encouraging field data. He also talked



about how important nutrition and management are, which saves the farmer a lot of money. Every rupee saved is earned, and for a 5 Lakh farmer the savings could be in Crores



**Dr. Jayaraman,** Educated farmers on “Commercial Layers Disease Management in Current conditions and its Economic Impact”. Dr. Jayaraman





highlighted how proper biosecurity and investment in disease prevention can ensure farmers have control on the health of their flocks.



**The founders of Wyldox, Varun and Kartik Aggarwal**, discussed the significance of water quality and the efficiency of Wyldox as a one-stop shop for all of the farm's water and biosecurity requirements!

**Farmers have shared their splendid journey with Srinivasa Hy-Line.**



His experience with 14 Hy-Line batches, **Mr. Kanchana Rao**, a layer farmer in Krishna District, Andhra Pradesh,

endorsed Hy-Line W-80 India and discussed how he is seeing the benefit with the Srinivasa and Hy-Line partnership.



**Mr. Ashok Mandava**, Vijaynagar Egg Farm, Bellary, Karnataka, Shared his experience with Hy-Line from 1998 and never lost money in all these years.

**Q&A Session:  
Addressing the farmer's queries**



## BROILER LIFTING RATES FOR THE MONTH OF NOVEMBER 2022

Place	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
Hyderabad	123	123	118	118	120	122	122	122	114	114	107	107	109	109	109	112	114	116	119	119	119	117	112	107	107	109	109	109	109	109
Karimnagar	123	123	118	118	118	120	120	120	114	114	107	107	107	107	107	112	112	114	117	117	117	115	112	107	107	109	109	109	109	109
Warangal	123	123	118	118	120	122	122	122	114	114	107	107	109	109	109	112	114	116	119	119	119	117	112	107	107	109	109	109	109	109
Mahaboobnagar	123	123	118	118	120	122	122	122	114	114	107	107	109	109	109	112	114	116	119	119	119	117	112	107	107	109	109	109	109	109
Kurnool	123	123	118	118	120	122	122	122	114	114	107	107	109	109	109	112	114	116	119	119	119	117	112	107	107	109	109	109	109	109
Vizag	110	110	105	105	105	107	107	107	103	103	103	103	103	103	103	103	103	105	107	107	107	107	107	107	102	102	102	102	102	
Godavari	117	117	112	112	112	114	114	114	107	107	107	107	107	107	107	110	112	114	114	114	114	114	114	114	109	109	109	109	109	
Vijayawada	117	117	112	112	112	114	114	114	107	107	107	107	107	107	107	110	112	114	114	114	114	114	114	114	109	109	109	109	109	
Guntur	121	121	116	116	116	118	118	118	111	111	111	111	111	111	111	111	114	116	118	118	118	118	118	110	110	110	110	110	110	
Ongole	121	121	116	116	116	118	118	118	111	111	111	111																		
Namakkal	115	115	106	106	106	106	106	106	106	106	96	96	96	98	103	106	106	106	106	106	98	98	98	103	108	108	110	110		



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5-6 Weeks	21-72 Weeks	40 ml

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- ▶ In layers to be given regularly or 15 days every month, as required.
- ▶ Double quantity is recommended for breeders & during challenging conditions (for first 10 days).

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## ANIMUNIN LIQUID

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## Alltech ONE Conference embarks on a World Tour in 2023



*The Alltech ONE World Tour will mobilize the renowned annual conference to customers around the globe*

[LEXINGTON, Ky.] –Alltech is transforming its annual Alltech ONE Conference (ONE) in 2023 into a series of international events that will invite collaboration on the greatest challenges facing the agri-food industry. Instead of welcoming the world to Alltech’s home in Lexington, Kentucky, as it has for the past 38 years, the Alltech ONE World Tour will bring the ideas and inspiration of the ONE Conference to communities throughout the world.

Stops are planned in Brazil, Canada, Hungary, Indonesia, Ireland, Italy, the Middle East the Philippines, Singapore, Spain, the United States and Vietnam, providing the opportunity for more people than ever to experience the power of ONE and to hear from experts on trending topics in the agriculture industry. Additional stops are expected to be announced in 2023.

“As our customers and partners continue to face many challenges and uncertainties, we determined that 2023 would be dedicated to meeting them in their market,” said Dr. Mark Lyons, president and CEO. “This special edition of the ONE will endeavor

to deliver global expertise to locally relevant issues. In the midst of economic and political uncertainties that fuel regionalization, this ONE reflects the responsibility we have as a global company to be a connector of people and ideas, ever advancing our purpose of Working Together for a Planet of Plenty.”

While Alltech looks forward to bringing the international conference home to Kentucky in 2024, the 2023 ONE World Tour is a unique opportunity to discuss the future of agriculture with stakeholders all over the world, offering both a global and local perspective for attendees. It will unite changemakers and thought leaders in unique forums to discuss the future, examining regional and local market trends in agriculture, business, health and nutrition.

Alltech will release more details about its international tour stops and event dates in the coming weeks. Visit [one.alltech.com](https://one.alltech.com) for more information and to subscribe to notifications on tour updates.

-Ends-

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#### **About Alltech:**

Founded in 1980 by Irish entrepreneur and scientist Dr. Pearse Lyons, Alltech delivers smarter, more sustainable solutions for agriculture. Our diverse portfolio of products and services improves the health and performance of plants and animals, resulting in better nutrition for all and a decreased environmental impact.

We are a global leader in the agriculture industry. Our team produces specialty ingredients, premix supplements, feed and biologicals, backed by science and an unparalleled platform of services.

Strengthened by more than 40 years of scientific research, we carry forward a legacy of innovation

and a unique culture that views challenges through an entrepreneurial lens. As a private, family-owned company, we adapt quickly to our customers' needs and focus on advanced innovation.

We believe agriculture has the greatest potential to shape the future of our planet. Our more than 5,000 talented team members worldwide share our purpose of Working Together for a Planet of Plenty™. Together, we can provide nutrition for all, revitalize local economies and replenish the planet's natural resources.

Headquartered just outside of Lexington, Kentucky, USA, Alltech serves customers in more than 120 countries, has five bioscience centers, and operates more than 80 manufacturing facilities across the globe.

For more information, visit [alltech.com](http://alltech.com), or join the conversation on [Facebook](#), [Twitter](#) and [LinkedIn](#).

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# Re-emerging Poultry Diseases of Public Health Significance

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Suraj Amrutkar

## Introduction:

According to the National Institute of Allergy and Infectious diseases, emerging Infectious diseases are commonly defined as:

- i) Outbreak of previously unknown diseases
- ii) Known diseases that are rapidly increasing in incidence or geographic range in the last 2 – decades.
- iii) Persistence of infectious diseases that can not be controlled

Re-emerging diseases are diseases that reappear after they have been on a significance decline. Reemergence may happen because of:

- Breakdown in public health measures for diseases that were once under control.
- They can also happen when new strains of known disease causing organism appear.
- Over use of antibiotics has led to disease causing organisms that are resistant to medicine. It has allowed a return of diseases that once were treatable and controllable.

## Emerging and re-emerging diseases in poultry:

Poultry diseases remain of major economic and public health importance. Important disease related to emerging and re-emerging is:

- i) Bird flu ( Avian Influenza)

## Avian Influenza:

Avian Influenza is commonly known as “Bird Flu”. Avian Influenza is a viral disease characterized by extremely high mortality. The virus affects the respiratory, digestive and nervous system. Migratory

waterfowl, particularly ducks have yielded more viruses than any other group. However, most AI infections do not produce clinical diseases in free living birds. **Incubation period** in Avian Influenza is 3 days.

**Etiology:** It is caused by Orthomyxo virus.

**Symptoms:** Symptoms of Avian Influenza disease depends upon the type of virus i.e. Mildly Pathogenic Avian Influenza or Highly Pathogenic Avian Influenza.

## Mildly Pathogenic Avian Influenza:

**In Chicken:** The most common symptoms include mild to severe respiratory symptoms. These include coughing, sneezing, abnormal respiratory sound (rales and excessive discharge from the eyes (lacrimation). In layers and breeders, hens may show increased broodiness and decreased egg production. In addition, they show huddling, ruffled broodiness, depression, decreased activity, reduced feed and water consumption, and sometimes diarrhea. Emaciation (thinning) is uncommon because AI is an acute and not a chronic disease.

## Highly Pathogenic Avian Influenza:

**In Chicken:** In most cases, the disease attacks suddenly and is extremely severe. Some birds are found dead without showing any symptoms. If the disease is less severe and birds survive for 3-7 days, individual birds may show nervous disorders, such as tremors of head and neck, inability to stand, twisting of the neck, and unusual position of head and legs. The poultry house usually quite because of decreased activity and reduction in normal vocal sound of the birds. Depression and decreased in feed consumption are common. Sudden drop in egg production occurs in breeders and layers. The drops go on increasing and within six day there is total stoppage of egg production. Respiratory symptoms are less common than with MP AI viruses, but can include abnormal respiratory sound (rales), sneezing and coughing.

**Postmortem findings:**

Postmortem findings are extremely variable, depending on the pathogenicity of the infecting virus and presence of secondary pathogens.

**Mildly Pathogenic Avian Influenza:**

In poultry, the most common lesions (changes) are in the respiratory tract, especially sinuses, and are characterized by different types of inflammation. The tracheal mucosa (i.e. internal lining of trachea) are swollen (oedematous) with congestion and sometimes hemorrhages. Tracheal exudates (inflammatory fluids) may vary from serous (resembling serum) to caseous (cheese like) with, at times, blockage of airways resulting in asphyxiation (suffocation). Airsacculitis (inflammation of airsacs) may be present. The inflammation is usually associated with secondary bacterial infections. The infraorbital sinuses (i.e. presence below the eyes) may be swollen and mucus to mucopurulent nasal discharge occurs. Bronchopneumonia can result when secondary pathogens such as E.Coli and Pasteurella multocida.

In the body cavity, there may be catarrhal to fibrinous peritonitis (i.e. inflammation of peritoneum, a membrane in the body cavity), and even egg yolk peritonitis may be observed. Enteritis (inflammation of the intestines) may be observed in the caeca and or intestine. Inflammatory exudates may be found in the oviduct of laying birds, and last few eggs laid have reduced calcium deposition within the egg shells. Rarely eggs are misshapen and fragile with loss of pigmentation. Ovaries undergo regression, beginning with haemorrhages in the follicles and progressing to colliquation. That is, the ovary becomes softened and liquefied. The oviduct may be swollen (oedematous) and contain exudates (inflammatory fluids) before undergoing involution (shrinkage). In a few cases in laying hens, kidneys may be swollen and accompanied by visceral gout

**Highly Pathogenic Avian Influenza:**

H5N1 viruses produce a variety of oedematous, hemorrhagic and necrotic lesions in internal organs and the skin. However, if the death is sudden, no gross lesions may be seen. In chicken, swelling of the head, face, upper neck and feet are common as a result of subcutaneous oedema (accumulation of fluid under the skin). The eye may be excessive discharge, and swelling surrounding the eye is

common. These changes are accompanied by small to large haemorrhages below the skin in the feet. Necrotic foci (area of dead tissues), haemorrhage, and cyanosis (bluish to purple discoloration of the skin due to deficiency of oxygen in blood) of the non-feathered skin are common, especially wattles, comb and legs.

Lesions (changes) in the internal organs are varying with virus strains, but are mostly hemorrhages on serosal or mucosal surfaces and foci of necrosis inside the internal organs. Most common are prominent haemorrhages on the surface of the heart (epicardium), in the breast and leg muscles, and in mucosa (lining) of the proventriculus and gizzard and at times, in small intestine. Necrotic foci are common in pancreas, spleen and heart and sometimes in liver and kidney. Trachea may be highly congested and in severe cases may exhibit severe haemorrhages. This was seen in particularly Indian outbreak.

**Treatment:** There is no satisfactory treatment. Supportive care and treatment with broad spectrum antibiotics may reduce the effects of concurrent bacterial infections.

**Prevention:**

- The most important source of virus for poultry is other infected birds. Therefore, the first step towards prevention of infection is separation of susceptible birds from infected birds and their secretions and excretions. Biosecurity is the first line of defense.
- Spread can occur when susceptible and infected birds are close contact, or when infectious materials from infected birds are introduced into the environment of susceptible birds. Such introduction occurs with the movement of equipment, footwear (shoes etc.) and clothing, vehicle, insemination equipments, feed, water etc. The presence of virus in faecal material is the source for its movement through equipment and people.
- There should be no contact with recovered flocks, because the length of time birds within a population shed virus is not clearly known.
- Wild birds are the reservoir of Influenza viruses. They should be considered a major source of infection for poultry. Therefore, it is important to reduce the contact between these two groups.



**Control:**

- Influenza virus is excreted from both respiratory and digestive systems. Therefore, within a poultry house, birds-to-bird transmission is by air and ingestion. Contaminated poultry manure (faeces) is the most important source of spread between flocks.
- After the Avian Influenza has been introduced into commercial flocks, certain things must be identified that contribute to its spread. These include unclean equipment and people, marketing of actively infected flock, and inadequate cleaning and disinfection.
- All methods for controlling the spread of Influenza are based on preventing contamination and controlling the movements of people and equipment. Persons who have direct contact with birds or their faeces have been the cause of most disease spread between houses or premises. Equipment that come in contact with birds or their faeces should not be moved from farm to farm without adequate cleaning and disinfection. Also, it is important that the traffic area near the poultry house does not get contaminated with faeces / manure.

**Vaccination:** Inactivated Influenza virus vaccines have been used. Vaccinated flocks can not be considered influenza virus free.

**Biosecurity measures to fight Avian Influenza Threat:**

Bio-security is a process to prevent disease from entering your farm or poultry flock. Avian Influenza (AI) makes extremely important for poultry farmers to protect their flocks by having strong bio-security measures. There are two main pathways for diseases transmission in most poultry flock.

- 1.) Direct transmission: (Physical contact between infected and healthy individuals)
- 2.) Indirect transmission:
  - Disease agent is carried to susceptible individual by Human, feed and water
  - Environment (contaminated pens, pasture or water sources)
  - Share equipments
  - Rodent and other vermin
  - Pets

**Two sets of bio-security practices:**

- 1.) Prevent direct transmission:
  - Acquire birds from standard source
  - Quarantine bird for 30 days after purchase of returning from shows/fairs
  - Do not mix multiple species particularly duck and chicken or ages
  - Do not allow your flock contact with wild bird dropping by keeping domestic poultry under a roof
- 2.) Prevent Indirect contact:
  - Post “ No visitors” and “Restricted Area” signs at road entrance to firm
  - Do not allow visitors access to your birds and do not visit other poultry farms
  - Have dedicated clothing and footwears for use when working in/near your flock
  - Essential visitors should wear disposable coverall, boots and head gear.
  - Clean and disinfect feeders and drinkers every day. Clean and disinfect poultry houses and equipment at least once in year
  - Clean/disinfect all coops, crates and other poultry containers or equipments before and after use.
  - Use plastic or metals, not wood. Wood is difficult to clean.
  - Do not keep feeders or other sources of food for birds on your property.
  - Use sound deterrent to keep wild birds from roosting on your property.
  - If one of your birds becomes sick or dies, do not move the other birds to a different farm even if they appear healthy.
  - If possible, cover pens and vents and opening in the poultry house with narrow mesh screen to keep out wild birds
  - Monitors all vehicles entering the farm to determine, they have been properly clean and disinfected including the tires and under carriage.
  - Maintain an effective rodent control programme (rodent can carry many diseases)
  - Do not share equipment with friends or neighbors.

- Purchase feed from a trusted source, keep it safe from wild birds and rodents
- All persons entering poultry facilities should use footbaths, and footbath should be changed frequently to help to maintain effectiveness.
- Wash hands and use hand sanitizers both before and after visiting the resistant birds.
- Birds and varmint proof your coop pens and house
- Keep poultry houses securely locked, and locked from inside while working inside
- Dispose of dead birds in approved manner (Composting, Incineration or burial)
- Hunters and any one handling wild game (especially waterfowl) must completely change clothing and shower or bath before entering flock area).
- Don't borrow disease from your neighbor

**Know the warning sign of infectious bird diseases:**

- Coughing, sneezing, watery eye, nasal discharge and gasping for breath
- Lethargy, depression and decreased feed and water intake
- Swelling around the eye, neck and head
- Purple discoloration of the wattle, comb and legs
- Watery or green diarrhea

- Drop in egg production or increase in soft or thin shelled and misshapen eggs
- Sudden increase in bird deaths in your flock

**Report sick birds:**

- If you suspect a problem, contact local veterinarian immediately
- Don't wait for things to possibly get worse
- Sick and dying birds should be submitted to a diagnostic laboratory for proper diagnosis of the problem

**Quarantine:**

- Restrict the movement of poultry/equipments into and out of the control area

**Depopulate:**

- Humanely euthanize the affected flock

**Clean and Disinfect:**

- Kill the virus in the affected location.

**Test:**

- First confirm that the poultry farm is AI virus free before allowing repopulation.

**Poultry is still safe to eat?**

Cooking method adopted by India for poultry egg is very well destroying influenza virus. It is recommended that poultry has to cook at 165°F temperature. This is true for all poultry all the time, not just in a diseases outbreak situation.

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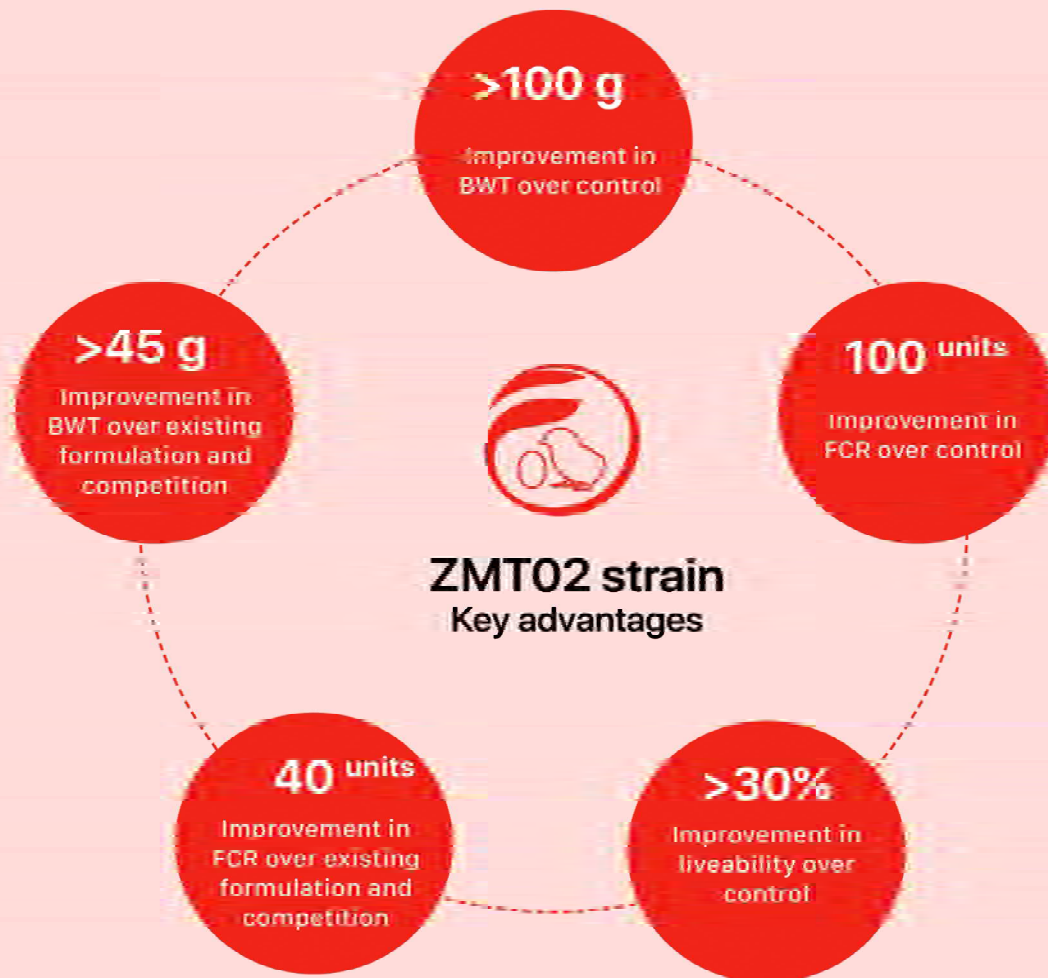
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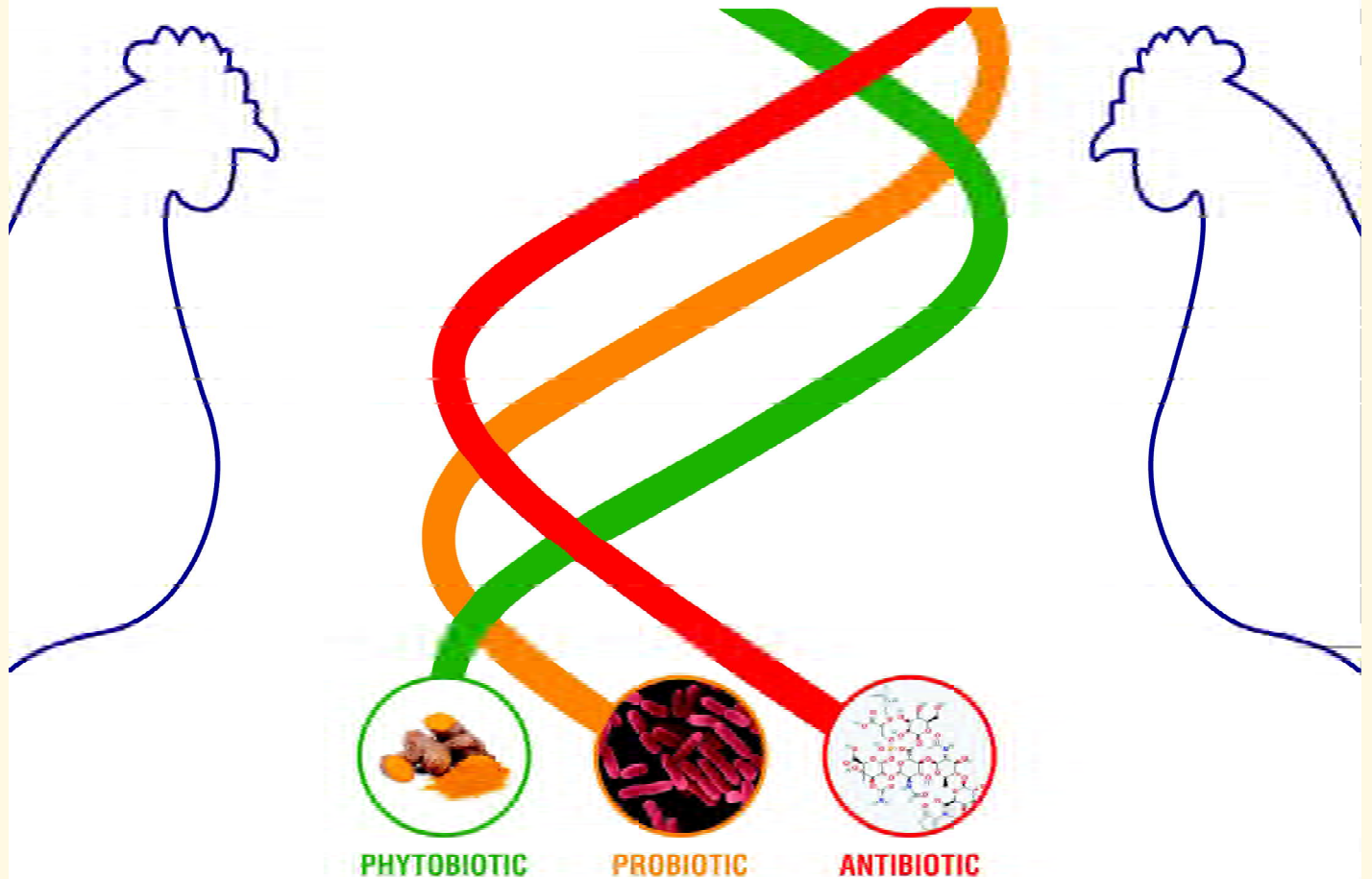
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# Provet @ 14<sup>th</sup> Poultry India Expo 2022, Hyderabad

Provet Pharma Private Limited, marked its presence at the 14<sup>th</sup> Poultry India 2022 Expo, held from 23<sup>rd</sup> to 25<sup>th</sup> November 2022, at HITEX Exhibition Complex, Hyderabad. Provet stall highlighted the theme “**NAGRONEX - Non-Antibiotic Growth Promoters for Next Generation Poultry**” with a good customer turnout from all over India and overseas.

Renowned veterinarians, consultants, poultry farmers, associates from poultry feed industries, delegates, and integrators stopped over to discuss about the novel portfolio and share valuable expertise. Novel products Nagronex SNB, Nagronex ESF, Bambercin Plus, Larvostat Super, Peptonic Gold, and Immulator formed the prime topics under discussion.



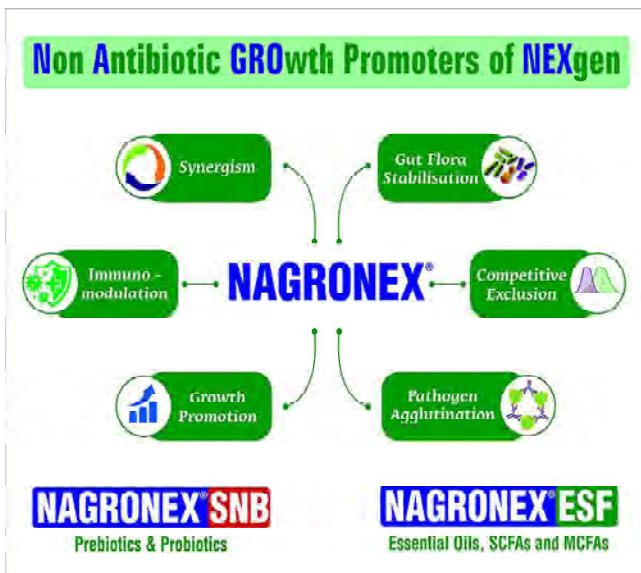
**Provet Stall at Hall 4**



**Team Phoenix**



**Team CPF**



**NAGRONEX Theme**



**Mr Ramakrishna Reddy, Sneha Farms**



The 3-day expo was a good opportunity indeed, to meet, share, interact and create a good deal of interest among business associates and customers all over India and overseas.



**Mr Radheshyam Roy & Mr Madan Maity**



**Dr Chandrashekar, Mr Pradeep Krishna, SKM Feeds**



**Mr SumitSureka& Mr Srinithi –ShivshaktiAgro**



**Team Anupama Feeds & Farms**



**Team Samporna Feeds**



**Dr Prajapati, Dr Nishant Patel & Other Consultants**

Provet constantly innovates, optimises costs and works on giving solutions to existing, emerging challenges in the industry and at the same time ensuring health, welfare of food animals. Provet makes it a point to participate in all major upcoming events to showcase, share the goodness of Provet's solutions.



# “TYLVATEC – THE BEST-IN-CLASS ANTI-MYCOPLASMAL” LAUNCH @ POULTRY INDIA EXPO

Provet launched **TYLVATEC SOLUBLE – THE BEST-IN-CLASS ANTI MYCOPLASMAL**, with the unveiling of the product pack, product brochure, in the presence of renowned consultants and esteemed customers.



Dr. Muthu Selvan, Managing Director, and Dr. Senthil, Director unveiling “TYLVATEC – The Best-In-Class Antimycoplasmal”

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## PROVET - BEST HEALTH CARE PRODUCT AWARD @ 7<sup>th</sup> IPJA GLOBAL AWARDS 2022 for Poultry

Provet won the **BEST HEALTH CARE PRODUCT AWARD** for its innovative brand portfolio **NAGRONEX**, at the 7<sup>th</sup> IPJA Global Awards function held at Hotel Avasa, Hyderabad on the 24<sup>th</sup> of November 2022.



Dr. Muthu Selvan, Managing Director, and Dr. Senthil, Director, receiving the Award



Team Provet at TYLVATEC Product Launch





**Team Provet with IPJA Award**

**NAGRONEX**, stands for **Non-Antibiotic Growth Promoters of NEX Gen (NAGRONEX)**. The brand portfolio comprises natural, healthy, safe, holistic, and proven alternatives to AGPs ensuring sustainable, optimal, and efficient growth promotion in food animals while ensuring better animal care, wellbeing, and safe, wholesome food to humankind. NAGRONEX brand portfolio today enjoys widespread acceptance among major poultry producers across the nation, a greater market share, and has got more eyeballs in many countries too.

## 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**

A-1, Gaytri Nagar, Phase-II, P.O. Shankar Nagar, Raipur, Chhattisgarh-492007

Mob.No : 09644233397, 07746013700, Res. 0771-4270230

Email : [drmanu69@gmail.com](mailto:drmanu69@gmail.com)

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

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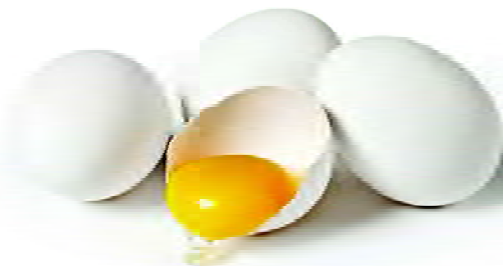
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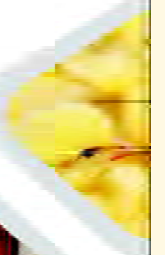
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# Importance of Japanese Quail Farming in India

Suraj Amrutkar<sup>1</sup>, Bharti Deshmukh<sup>2</sup>, Suhaz Amrutkar<sup>3</sup>, Nazam Khan<sup>1</sup>, Vikas Mahajan<sup>1</sup>, M.A. Malik<sup>1</sup>

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Suraj Amrutkar

## Introduction:

Quails are newly introduced species which belong to family Phasianidae and class: Aves. Quails are commonly seen in Asia, Africa and Europe.

Japanese Quail (*Coturnix*

*coturnix japonica*) is popularly known as Bater in Hindi. Japanese quails are prolific layers. Some females lay as early as 5 weeks of age depending upon the day length. The average age of first egg is being laid at about 40 days. Under tropical conditions, quails mature by about 7-8 weeks of age and reach peak production by about 10 weeks. Under favorable environment, they produce for long periods approximately 280-300 eggs per year. Japanese quails require about 14-18 hrs of day light for optimum production. About 75% quails are laid between 3:00 P.M. to 6:00 P.M. and 20% of the eggs in darkness. Eggs are multicolored, ranging from dark brown, blue and white to buff, each heavily mottled with black, brown and blue. Weight of the egg is approximately 10 gm which is about 7% of the hen body weight. The first egg of a sequence is smaller than succeeding eggs. Hatchability decreases on storage at a fairly constant rate of about 3% per day. Age of parent stocks has a pronounced effect on hatchability. Maximum hatchability occurs with eggs from 8-24 weeks old birds. Domesticated quails reproduce all through the year. For optimum fertility, parents should be 10-24 weeks old. One male should mate to 3 or less number of females of eggs should be collected 4 days after introduction of males. Hatching eggs should be fumigated for 20 minutes before storage. As the female grow old, hatchability of fertile eggs

hatch well. It takes about 18 days for eggs to hatch. In incubators and hatchers used for chicken can be used, but setting trays need modification due to small size of eggs. Quails are very sensitive to abrupt environmental changes during the first 2 weeks of their life. They need better care during brooding age. Although, the disease pattern is remains the same as that of chicken. Quails are reported to be resistant to Ranikhet disease, Ascariosis and chicken coccidiosis, but they do suffer from Aspergillosis.

## Advantage of quail farming:

Japanese quail is hardy in nature and do not require routine vaccination and medication. It attain faster growth rate and attain early sexual maturity; reach sexual maturity at 42 days/ bird of 6 weeks of age. Quail has high egg production rate 280-300 eggs/ years. Japanese quail annual egg mass is 20 times than higher adult quail body weight but while in chicken 10 times. Egg weight to body weight: Quail 8%, Chicken 3% and Turkey 1%. Quail have shortest generation interval: 3-4 generation per year. Thus making an important laboratory animal. It can adapt to varying environment condition because of similarity to chicken in many aspects. Quails are used as pilot animals in genetics, nutritional, physiologic, management and cancer studies. Quail used in embryonic research especially white shell line. Quail has low feed requirements: Feed requirement 25 gm/day. Annual feed consumption 8 kg/year. For broiler quails marketed at 5 weeks at 450 gm body weight. Quail has shorter incubation period (18 days). Quail has less floor space requirement: 8-10 quails reared in place of 1 chicken. Quail meat has medicinal value, used in Ayurvedic preparation; for T.B. treatment. Quail has less fat, 20 more caloric value, more phospholipids and cholesterol, 16.2 mg/g of yolk,

chicken 17.9 mg/g of yolk. Quail meat cholesterol is low 57.8/100gm of meat Vs. chicken 65.9mg/100gm meat. Quail meat promotes body and brain development in children.

### **General characteristics quail:**

Male weight is 130-150 gm and female is heavier than male. Female weight is 150-200gm. Males are smaller to female. In male, upper part of breast is cinnamon coloured and lower part of breast is light brown colour. In female, face, throat and upper part of breast is light cinnamon with black stippings and lower part of breast having tan in colour. Sexes identified by 3 weeks of age with differentiate in plumage with 90-98%, precision approximately. By 6<sup>th</sup> weeks, male produce peculiar sound. Sexual active male have Cloacal gland or Foam gland.

### **Breeding of quails for egg production:**

In the wild states, quails are generally monogamous studies have conducted. Under the intensive system of rearing, maximum fertility obtain with 1male : 2-3 females ratio. A.I. has not been found to be useful for production of fertile egg due to low volume of semen and presence of foam during sperm production. There is seasonal effect on hatchability is observed during October to March month and poor hatchability is observed during June to August. Too many or too few quail cocks in the unit leads to higher proportion of infertile eggs. Quail cock are aggressive and when there are too many of them, a phenomenon called "Psychological castration" often arises as a result of peck order of dominance pyramid. Cock at the base of the pyramid are usually not getting chance to mate by stronger males. As the phenomenon progress, despite the fact that, they are physically normal, weaker cocks will fail to mate even if they are separated and provided with hen. In the floor system of rearing, 1 male: 4-5 female is sufficient. Fertility of 80% or more is mentioned in quail hens, even after the removal of males for 3 days. This is the shortest fertile for domesticated birds because chicken and ducks maintain fertility for 7-8 days and turkey 20 days after removal of males.

### **Age of breeding stocks:**

Very young quail cocks are often not sufficiently dominant to mate. In Japanese quail, maximum fertility is reached between 12-15 weeks of age, after which it declines gradually. In quail, body weight is a highly fertility trait. So for breeding purpose, selection is mainly by individual selection, mass selection. There is improvement of 2-5gm/generation, when the selection practiced for 4-5 week body weight. Individual selection for 4 week body weight is superior for improving performance. Special care required during collection and handling of hatching eggs as they are thin shelled. Shell thickness in Quail egg : 0.1 mm, Chicken egg : 0.31 mm. Quail reach sexual maturity at 6-7 weeks of age and lay on day light. 50% egg production at 8<sup>th</sup> week of age and peak production by 10<sup>th</sup> week of age. They produce 280-300 eggs in a year. Nearly 70% of egg lay at 3-6 pm while 20% in later. Average egg weight is 10 gm. which is 8% of the body weight. In Japanese quail, annual egg mass production is 20 times higher than adult female body weight (in chicken 10 times). Eggs are multicoloured ranging from brown, blue, whitish to buff each heavily molted with black brownish.

### **Factor affecting fertility:**

- Parents should be 10-20 weeks of age.
- Mating ratio is 1:2-3 in cages and 1:45 in litter system.
- Egg should be collected for hatching after 4 days of introduction of male and female; and till 4 days after mating and separated.
- Breeders should be fed with quail breeder ration.
- Beak should be slightly cut using debeaker to check cannibalism.
- Special care should be taken in debeaking of males.
- Fertility will be decrease when the male are more than 6 month old.
- Hatchability of fertile eggs reduces with the age of female.
- Ageing has no effect on fertility of male.
- Hatchability is maximum in eggs of 10-24 weeks of age.

- Hatchability is better in winter season as compared to summer and monsoon.

### Brooding Management:

Brooding care and management of chicks required until they grow feather. In quails, both battery and floor brooding is practiced. Battery brooding is better than floor brooding due to small size of chick. Chick weight is 6-7 gm. Brooding period in quails is up to 3 weeks for brooding period. Chicken battery brooder can be modified by covering the floor of the brooder by corrugated paper or rough surface paper during 1<sup>st</sup> week to avoid damage to feet or legs. During 1<sup>st</sup> day, feed is sprinkled on corrugated paper. Waterers should be designed to prevent drowning of chicks because drowning is the main cause of death of baby chicks. Initial brooding temperature should be 35°C and gradually reduced at the rate of 2.7°C every 4 day to reach upto room temperature. Reaction of chicks under the heat source must be considered as a better guide than thermometer.

High Temperature	Chicks will move away
Low Temperature	Chicks will huddle together
Optimum Temperature	Chicks will move uniformly

After first week, corrugated paper can be removed and provided with small feeder. Quail chicks, brood under continuous light for 24 hrs for first 2 weeks after which light programme depends upon the purpose of production. There is no need of artificial light during growing period.

### Layer Management:

When they are 5-6 weeks of age, they are transferred to laying cages. Layer quail begin to lay at 6 weeks of age, reach 60% of the production at 8 weeks of age and 80% of production at 10 weeks of age. Annual egg production is 280-300 eggs. Total feed intake is 8 kg/ year. Feed consumption/ day is 25 gm/day. Total photoperiod is 14-16 hours is recommended for layer. Day length influence sexual maturity. To induce early sexual maturity, light period should be started earlier. To delay sexual maturity, photoperiod can be increase from 6 weeks only.

### Quail Nutrition:

Nutrient	Starter (0-3 week)	Grower (4-5 weeks)	Layer (6 weeks onwards)
Energy (kcal/bird)	2750	2750	2700
Protein %	27	24	22
Calcium %	0.8	0.6	3.0
Phosphorus %	0.3	0.3	0.45
Vitamin A (IU/Kg)	10000	10000	10000
Vitamin D(IU/Kg)	1250	1250	1250
Lysine %	1.4	1.25	0.73
Methionine %	0.41	0.36	0.32

### Physical and Chemical composition of Eggs:

Shape is spheroid, characterized by variety of colour from dark brown, blue and white, each heavily molted with black and brown. Egg shell pigments of quail egg are ooporphycin and biliverdin and blue green eggs have oocyan pigments. Peculiarity to shape, size, colour pattern are characteristic of individual quail layer. Weight of the quail egg is 10-12 gm.

### Physical composition of Egg:

Parameters	Quail egg	Chicken egg
Egg weight (gm)	10.3	56.7
Albumen %	56.5	57.1
Yolk %	32.6	31.1
Shell %	9.9	10.7
Shell thickness (mm)	0.19	0.31
Egg Shape Index	78.5	73.3
Egg Yolk Index	0.45	0.45
Egg Albumen Index	0.9-1	0.9-1
Haugh Unit value	87-90	-
Inner thin albumen %	33	-
Inner thick albumen %	31	-
Yolk % relation to albumen in quail is more than chicken		
Yolk fat %	30	-
Yolk protein %	19	-
Albumen protein %	11	-
Lipid (triglyceride) %	67	-
Cholesterol content less in Quail egg than Chicken egg	16.3 mg/gm yolk	17.94 mg/gm yolk



### Chemical composition of Egg:

Parameters	Quail egg	Chicken egg
Moisture %	73	74
Protein%	13.23	12.8
Fat %	10.83	11.50
Ash %	1.03	1.0
Carbohydrate %	1.02	0.90
Energy (Kcal/100g egg)	158	156-183
Calcium (mg)	59	58.5
Phosphorus (mg)	220	181
Iron (mg)	3.8	2.4
Thiamine (mg)	0.12	0.08
Riboflavin (mg)	0.85	0.30
Niacin (mg)	0.10	0.07
Vitamin A (I.U.)	300	370

### Behavior problem:

#### Cannibalism:

Cannibalism having in different forms: vent pecking, feather pecking, head pecking and nose pecking. Nose pecking is most common type of cannibalism seen in birds of 2-7 weeks of age. Cannibal birds peck at the top of the mouth, where fleshy portion merge out with the beak where birds die due to blood loss. Even if the birds survive, beak permanently deformed and males not used for breeding purpose.

**Reason:** Insufficient Feeder and waterer's space, underfeeding, insufficient nest space, over crowing, mineral deficiency, especially sodium and chloride, excess maize in the diet, pellet feeding, strong artificial light, high amount of temperature, irritation from external parasite.

**Prevention:** Debeaking is practical suggestion. Papaya or green leaves hang in the cages. Azolla and Tulasi leaves can be given to the quail bird.



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**Cell: 98491 09478 Fac. : 040-20005996**



# Cargill Mycotoxin Survey

Cargill Mycotoxin Survey (India)

Survey period: Jan'22 - November'22

Mycotoxins represent a significant risk to animal health and are a significant issue for a safe feed supply chain. Despite efforts to control fungal contamination, feed and food mycotoxin contamination is unavoidable and unpredictable. A high incidence of multi-mycotoxin contamination has been reported in feed. Although only a very limited number of mycotoxins have been analyzed, co-contamination is of particular concern due to potential additive or synergistic effects on animals.

Mycotoxin contamination in ingredients is major concern in India due to favourable condition for their proliferation and poor storage practice.

Cargill Mycotoxin Survey (Jan'22 - Nov'22) for the Indian region covers an overview of mycotoxin distribution and its concentration in various ingredients.

Number of analysis: 4811

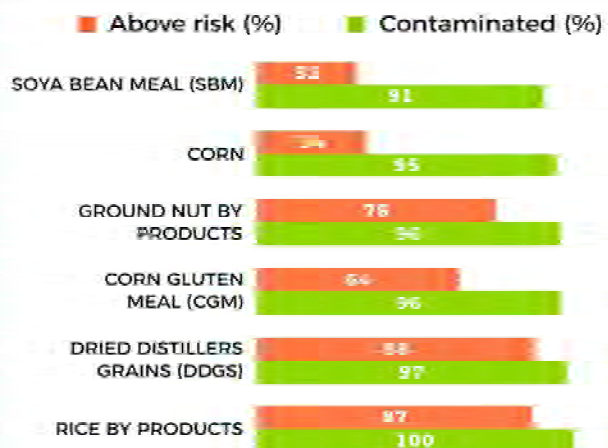
Contaminated: 98.03%

Above Risk Level: 74.93%

Region: 18 states

Sources: Suppliers, Farms  
Feed Millers, Integrators

## MYCOTOXIN PREVALENCE PATTERN



DORB  
100%  
Contaminated

DDGS  
97%  
Contaminated

CGM  
96%  
Contaminated

Ground Nut Meal  
96%  
Contaminated

# Cargill Mycotoxin Survey

## Cargill Mycotoxin Survey (India)

### Mycotoxin Contamination Summary

#### Aflatoxin

##### Contaminated Samples

N° Samples  
**4,285** 98.93%

##### Above Risk Level

N° Samples  
**3,286** 76.69%

Average (ppb)

**30**

Avg Above Risk (ppb)

**38**

Maximum (ppb)

**366**

#### Fumonisin

##### Contaminated Samples

N° Samples  
**188** 84.04%

##### Above Risk Level

N° Samples  
**109** 57.98%

Average (ppb)

**988**

Avg Above Risk (ppb)

**1,618**

Maximum (ppb)

**7,740**

#### T2 Toxin

##### Contaminated Samples

N° Samples  
**175** 98.86%

##### Above Risk Level

N° Samples  
**121** 69.14%

Average (ppb)

**137**

Avg Above Risk (ppb)

**194**

Maximum (ppb)

**1,056**

#### Zearalenone

##### Contaminated Samples

N° Samples  
**162** 89.51%

##### Above Risk Level

N° Samples  
**88** 54.32%

Average (ppb)

**123**

Avg Above Risk (ppb)

**214**

Maximum (ppb)

**965**

### Mycotoxin Prevalence Table for predominantly used ingredients in feed industry

#### Corn

Mycotoxin	No Samples	No Positive	No Above Risk	Average (ppb)	Maximum (ppb)
Aflatoxin (total)	426	409	127	17	202
Fumonisin	26	24	22	1,569	5,570
T2 Toxin (total)	21	20	14	65	412
Zearalenone	21	16	5	43	319







# Cargill Mycotoxin Survey

## Cargill Mycotoxin Survey (India)

### Rice by products

Mycotoxin	N° Samples	N° Positive	N° Above Risk	Average (ppb)	Maximum (ppb)
Aflatoxin (total)	2,984	2,982	2,617	30	268
Fumonisin	41	36	22	677	4,160
Zearalenone	37	36	23	132	784
T2 Toxin (total)	39	39	25	67	549



### Soya Bean Meal (SBM)

Mycotoxin	N° Samples	N° Positive	N° Above Risk	Average (ppb)	Maximum (ppb)
Aflatoxin (total)	112	105	33	12	81
Fumonisin	28	23	9	463	2,130
T2 Toxin (total)	27	26	14	39	155
Zearalenone	27	23	6	25	134



### Ground Nut Meal

Mycotoxin	N° Samples	N° Positive	N° Above Risk	Average (ppb)	Maximum (ppb)
Aflatoxin (total)	157	157	143	73	323
Fumonisin	31	26	16	704	2840
T2 Toxin (total)	30	30	17	52	353
Zearalenone	29	24	13	74	373



### Corn Gluten Meal (CGM)

Mycotoxin	N° Samples	N° Positive	N° Above Risk	Average (ppb)	Maximum (ppb)
Aflatoxin (total)	23	23	23	85	325
Fumonisin	15	15	14	3,184	7,740
T2 Toxin (total)	15	15	14	307	762
Zearalenone	15	14	13	170	743



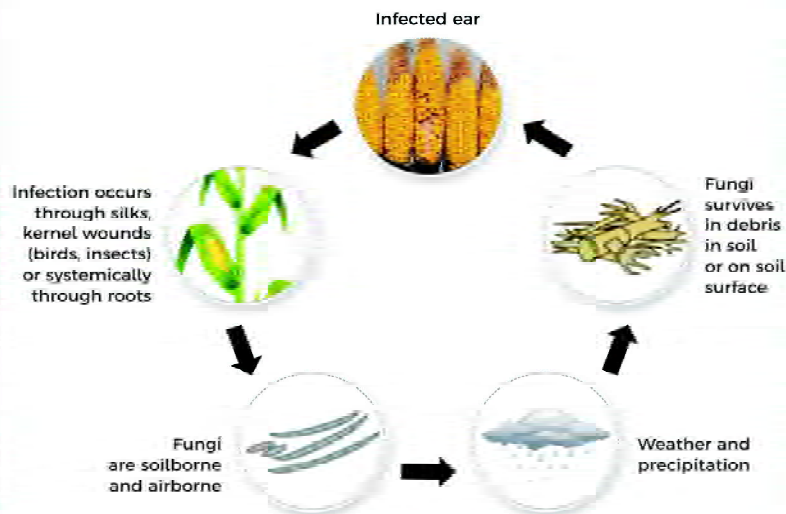
### Dried Distillers Grains (DDGS)

Mycotoxin	N° Samples	N° Positive	N° Above Risk	Average (ppb)	Maximum (ppb)
Fumonisin	30	25	20	842	2,900
T2 Toxin (total)	28	28	28	411	1,056
Zearalenone	27	27	24	266	965
Aflatoxin (total)	79	79	71	61	221



Leverage Cargill's Global Expertise to get insight on Mycotoxin Prevalence & its Mitigation Strategies

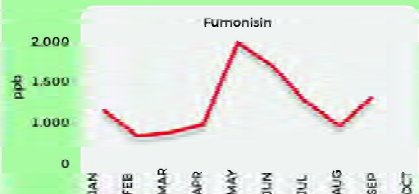
## Fungi Life Cycle



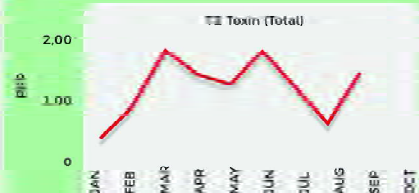
## Highest Contamination of Aflatoxin in October



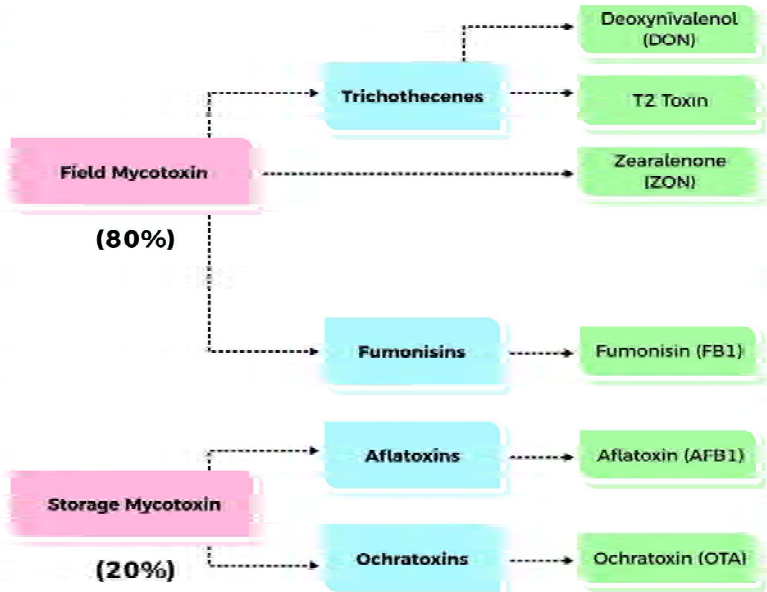
## Highest Contamination of Fumonisin in May



## Highest Contamination of T2 Toxin in March & June



## Highest Contamination of Zearalenone in April



Contact : Dr. Nidhi Madnawat, email : Nidhi\_Madnawat@cargill.com

# Litter Management at Poultry Farm

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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4. Senior Scientist & Head, KVK Samba, SKUAST-J; 5. Director Extension, SKUAST-J



Suraj Amrutkar

## Introduction:

Day to day, Indian poultry industry grows tremendously. Good management practice is one of the reasons for its growth. Birds can not be reared on a hard cement floor to avoid leg weakness,

breast blisters, ammonia smell, soiled feathers and other managemental problems. In general, broilers are rearing on litter floor house only. Although, litter is function more efficiently on an earthen floor; but a concrete floor is advised for a perfect disinfection at the end of each batch.

## What is poultry litter?

Litter is a soft, fibrous plant materials, which absorbs moistures and harmless to the birds. Poultry litter is a mixture of poultry excreta, spilled feed, feathers and mineral used as bedding in poultry operations. It provides media for absorbing moisture from faecal matter. It protects the feet of the birds from direct exposure to the floor (cushion like) and kept free from bumble foot and foot sores. Various agro-industrial by-products and waste products can be utilized as litter materials are paddy husk, pea nut hulls, coir pith, wood shavings, saw dust, fallen leaves, chopped straw, sugarcane bagasse, paper shreds, millets/jawars/corn cobs and thrash waste material left after harvesting various crops. The choice of the litter materials mainly depends upon the cost and local availability. Sand is also occasionally used as bedding.

## Qualities of a good litter material:

- It must absorb moisture from droppings quickly; but absorb a minimum moisture from the atmosphere.

- It must release moisture and dried up rapidly.
- It must have least tendency to form cakes.
- It must be free from mould growth.
- It must be free from sharp objects and other objectionable materials.
- It must be non-toxic, inert and compressible.
- It should possess good insulating properties and protect chicks from extremes of climate.
- It must be cheap and locally available.
- It must be biodegradable, supply some nutrients to the birds and form a good quality manure later.
- It must have medium particle size, soft and light in weight.
- It must be amenable for the birds to scratch and play in the litter; so that the birds will not have boredom and develop vices like packing.

**Causes of changes in litter condition:** Many things affect the condition of the litter:

- Relative humidity and temperature of the outside air
- Relative humidity and temperature inside the poultry house
- Number, age and weight of the birds in the building
- Amount of air moving through the house
- Water consumption of the birds
- Makeup and form of the feed
- Stress in the birds
- Diseases and mold conditions
- Overcrowding will make the litter wet soon.
- Insufficient litter materials
- Insufficient ventilation



- Too high side walls of the house
- Defective and leaky waterers
- Splashing of rain water into the shed
- Enteric diseases like diarrhea
- Water quality, especially the dissolved mineral levels
- Pellet feeding will increase the water intake and thereby causes wet litter condition
- Litter management such as racking
- Excess salt in feed or water will leads to watery droppings
- Excess fiber in the feed also leads to watery droppings and wet litter conditions
- Operating the foggers to cool the poultry house will increase the humidity and wet litter condition

#### **Litter maintenance:**

The recommended initial litter thickness will be 3cm during summer and 5cm during winter; whereas the final litter thickness will be ranging between 8 to 12cm depending on the season and growing period. Add small quantities of litter materials, whenever the previous litter material is becoming wet and caking up. Before adding fresh litter material, remove the caked up and wet litter material. Rack the litter thoroughly to break the clumps with the help of a litter racker and allow it to dry. Sprinkle a mixture of wood ash and fertilizer grade superphosphate in the ratio of 4:1, at the rate of 5 kg per 10 m<sup>2</sup> area, before racking the litter, to prevent ammonia gas release from the litter. Do not add slaked lime powder to the litter; because this will increase the pH of the litter; which in turn release more ammonia from the litter and also favors the growth of *E. coli*; the most common pathogen of poultry. Avoid spillage of water on the litter. Never fill the waterers to their full capacity. Remove the wet litter immediately, sprinkle wood ash + superphosphate 4:1 mixture as indicated above, and add fresh litter, if needed. In case of open sided houses, close the curtains while raining, to prevent splashing rain water. Water as soon as the rain stops, remove the curtains, to improve

ventilation and to reduce the ammonia level. Provide sufficient ventilation and avoid overcrowding to keep the litter dry.

A well maintained litter should not form cakes. The moisture level in the litter should be between 20-25%, if the moisture level is more than 25%.

- It will become wet and form cakes.
- Generate more heat due to fermentation.
- More ammonia gas will be produced; leading to conjunctivitis and rhinitis.
- More incidence of coccidiosis.
- The wet litter will form boots over the foot pad and toes and cause foot pad dermatitis, bumble foot and lameness.
- More incidences of parasitic and respiratory disease and flies. On the other hand, too dry litter will contaminate the feeders and waterers by falling into it. Create too much dustiness and predispose the birds to brooder pneumonia and other respiratory diseases

#### **Recycling of old litter:**

In certain places where the litter material is very costly, scarce and no market for the used litter, the old litter is recycled after treatment. The common treatment followed will be heaping and reheaping. During reheaping, the top layer of the previous heap will go to the bottom and the bottom layer will come to the top. During heaping and reheaping, the litter get fermented, which will generate sufficient heat, to kill all the harmful microbes and make it safe for the next batch of the birds reared on it. While heaping, a disinfectant solution will be sprayed on the floor and heaped litter, reduce the microbial load. After 7 to 10 days of heaping and reheaping, the litter will be spread again. The caked up litter will be broken or removed. Rack the litter daily and bring the litter moisture level to below 15%. Now the recycled litter is ready for rearing the batch of birds.

*Never recycle the litter, if any serious disease outbreak has occurred in the previous batch on that litter.* The recycle litter is always inferior to the new litter.

### Advantages of Litter Management:

The poultry man who can manage his litter will prevent many more problems. During the growing period, litter should contain between 20 and 30% moisture. There are several advantages, as follows:

- Feathering is better
- Growth is closer to normal
- Feed conversion is improved
- The coccidiosis problem is more easily controlled
- Ammonia in the house is reduce
- Flies and parasites problem comes in control because they will breed in moist litter

### Determining litter condition:

The litter should be neither too dry nor too wet. To test this, take a sample of litter in the hand, press it hard in the palm and gently open the hand. If the litter condition is optimal, the compressed litter materials show crevices. If the litter is too wet, it forms a cohesive ball. If the litter is too dry, it will form no impression, crumble easily and fall away in a pile.

### Wet Spots around waterers:

Birds will spill some water when drinking and the litter around the waterers may become extremely wet. Probably the biggest reason for keeping a required percentage of moisture in the litter has to do with the control of coccidiosis. Oocyst sporulation is increased in this area of the house, and may be great enough too cause an increase in incidence of coccidiosis. Remove the wet materials

and check to see that the water level in the waterers is low. Be sure all automatic water valves are working properly and that water is not overflowing.

### Litter born diseases:

- Coccidiosis
- Colibacillosis
- Salmonellosis
- Aflatoxicosis
- Aspergillosis (brooder pneumonia)

Diseases such as pododermatitis, hock burn and breast blisters are all a consequence of poor litter. In Turkeys, "Shaky leg Syndrome" sometimes follows foot ulceration associated with poor litter quality. These disorders cause unnecessary suffering to the birds and can also result in downgrading of the end product at the slaughter house.

### Uses of litter:

- Compost improvement
- Feed in fish pond
- Bio gas production

### Potential for poultry litter used as fertilizers:

Traditionally, poultry litter is used as a fertilizer. As with other manures, fertilizing value of poultry litter is excellent, but it is less concentrated than chemical fertilizers; giving it a relatively low value. This makes it uneconomical to ship long distances and it tends to lose its nitrogen value fairly quickly. Although poultry manure is a waste product, it is one that has considerable value as a fertilizer and feed nutrients.

### Characteristic of poultry manure produced under several species.

Source of manure	Treatment	Moisture content	Analysis dry basis %			Organic matter
			N	P	K	
Broiler	Fresh	76%	5.66	1.5	2.06	-
Hen	Fresh	76%	6.18	1.74	1.64	79.17
Turkey	Fresh	74%	5.04	1.19	1.58	77.82

### Chemical analysis:

Ash	26%
Crude fibre	10%
Crude Protein	33.5%
N-free extract	22.5%

### Manure production of 1.8 kg/ birds.

Daily	138.88 gm
Weekly	972.22 gm
Monthly	4.17 kg
Yearly	50.69kg

### Average composition of chicken manure:

Parameters	Fresh manure	Litter manure
Dry matter %	20-22	50
Nitrogen %	1-1.5	1-2
Phosphorus %	1-2	2
Potassium %	0.7	1
Calcium %	2.2	3

### Poultry Waste management:

Growing concentration of broiler and egg production units resulted in the production of waste on a large scale. Two main types of wastes are produced by poultry enterprises depending on the rearing system adopted on the farm i.e. poultry litter and cage layer waste. Cage litter waste has nutritive value as compared to poultry litter.

### Heaping:

Deep stocking of poultry waste produces considerable heat and had been shown to destroy coliform bacteria. The maximum temperature was reportedly attained in 4-8 days. When the litter from the broiler house is placed in a heap, the heat which subsequently developed is sufficient to destroy the pathogenic organisms that are present.

### Drying:

Probably the oldest method of processing waste for re-feeding is the drying of poultry manure in natural air condition under sunlight. This is the cheapest and most feasible method in a tropical country. Thin bed drying of poultry manure to 30% or lower moisture levels was found to prevent the breeding of flies, reduce obnoxious odour and maintain the nutrient value of the manure particles. Faster the manure is dried; the higher is the nitrogen value.

### Conclusion:

At the beginning, the litter contains only 12% moisture. If moisture level exceed 30% due to poor ventilation, too many birds, irregular stirring or damp floor; the litter will cease to function efficiently because the manure digesting bacteria can be active only within 30% moisture of the litter. Sometimes many birds will bear "balls" made of litter materials at their claw tips. Ball formation is a sign of bad litter management. Built-up litter has a very important role in providing warmth to the birds in winter. In winter, the litter depth can be increased to 10-12" while in summer it has to reduced 2.5-4". The dropping from chicken when mixed with litter synthesizes riboflavin (vitamin B<sub>2</sub>) and vitamin B<sub>12</sub> by chemical and bacterial action. The built-up litter is also contains niacin, phosphorus, potassium, magnesium, sodium and calcium. Deep litter birds often peck and eat a small quantity of litter material which contains above nutrient. Even if the poultry feed is slightly deficient in some of the nutrients, the deep litter birds will not show any deficiency symptoms because nutrients getting from litter materials. In cage rearing, such litter nutrients is completely absent. So, all the nutrients including calcium, phosphorus and sodium must be balanced in poultry ration.





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## **Avitech Nutrition participates in Poultry India Exhibition 2022 at Hyderabad**



Avitech Nutrition participated in the 14<sup>th</sup> Poultry India Exhibition held from 23<sup>rd</sup> November 2022 to 25<sup>th</sup> November 2022 at Hitex Exhibition Grounds, Hyderabad, India.

Avitech Nutrition showcased the products of the recently launched PhyGeno Division. PhyGeno manufactures plant-based products for the poultry, aqua, cattle and swine sectors. PhyGeno products such as Avitriol (Natural Bioactive Vitamin D3), GenoLiv (Plant Based Hepatostimulant), Green C (Plant Based Vitamin C) and PhyCholine (Plant Based Choline) evoked keen interest amongst the visitors at the Avitech Nutrition booth.

Avitech Nutrition also exhibited some popular and proven products such as Avimin (Inorganic Trace Mineral Premix), Performins (Organic Trace Minerals Premix), Lipidin (Emulsifier and Nutrient Absorption Enhancer) and TriSorb (Premium Toxin Binder).

Avitech holds a significant market share in several product verticals in the feed additive businesses of the poultry industry. Participation in Poultry India Hyderabad exhibition provided Avitech a valuable platform to present its innovative products and services to the stakeholders of the poultry industry.

For further technical or trade related enquiries contact

**Avitech Nutrition**

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Website: [www.avitechnutrition.com](http://www.avitechnutrition.com)

# WEDDING BELLS

**Sow. Shruti**

(D/O MRS. VAISHALI & MR. UDDHAV AHIRE)

Got married with

**Chi. Vedang**

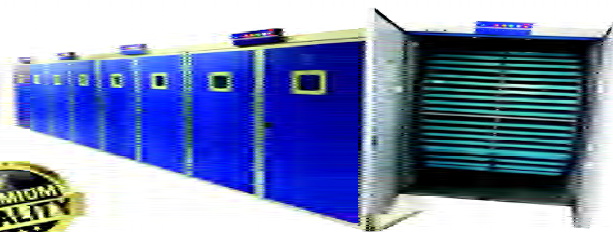
(S/O MRS. SUJATA & MR. VAISHAL NAIK)

On 4th December 2022, Sunday, 7.30 pm.

Venue: THE LAWNS, ARIA RESORT & SPA, NASHIK.

The WEDDING RECEPTION was well attended by poultry fraternity from all over the country and blessed the couple

The team of Poultry Line wish the couple a long, happy and prosperous married life



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## **WEDDING BELLS**

### **Yasaswini**

(D/o. Smt. Kalyani Guntaka & Sri Ramesh Guntaka)

Got married with

### **Venkata Vikas**

(Elder son of Smt. Aruna Chirumamilla & Sri Balaji Chirumamilla)

On 14th December 2022, Wednesday, 7.20 pm.

**Venue:** A Convention, Brindavan Colony, Vijayawada.

**The WEDDING was well attended by poultry fraternity from all over the country and blessed the couple**

**The team of Poultry Line wish the couple a long, happy and prosperous married life**

## **WEDDING BELLS**

### **Harsha Sri Jagapati Rayudu**

(Grand Son of Chitturi Jagapati Rao & Mangayamma)

(S/o. Suresh Rayudu & Jahnvi)

got married with

### **Mahima**

(D/o. Smt. Jyothsna & Sri Dhanekula Tirumal Prasad)

On 20th Dec 2022 Tuesday 7.30 pm

**Venue:** N Convention, Hyderabad.

**The Wedding Reception was well attended by poultry fraternity from all over the country and blessed the couple**

**The team of Poultry Line wish the couple a long, happy and prosperous life**

## NATIONAL EGG CO-ORDINATION COMMITTEE

DAILY / MONTHLY EGG PRICES DECLARED BY NECC AND PREVAILING PRICES AT VARIOUS PRODUCTION CENTRES (PC) AND CONSUMPTION CENTERS (CC) DECEMBER 2022

Name Of Zone / Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average	
	NECC SUGGESTED EGG PRICES																																
Ahmedabad	565	565	565	567	570	570	570	570	570	570	570	570	572	575	575	575	575	575	575	575	575	575	575	575	577	-	565	565	565	565	570	570	
Ajmer	530	538	543	555	545	545	-	545	540	540	545	547	547	541	537	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532
Barwala	527	531	538	545	545	545	545	532	534	534	538	541	541	541	541	529	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	531	
Bengaluru (CC)	555	555	555	555	555	555	555	555	555	555	555	555	555	555	555	555	555	555	555	555	555	555	555	555	555	555	555	555	555	555	555	555	
Brahmapur (OD)	547	547	552	559	562	562	562	562	562	562	562	562	562	562	562	562	562	562	562	562	562	562	562	562	562	562	562	562	562	562	562	562	
Chennai (CC)	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	
Chittoor	568	568	568	568	568	568	568	568	568	568	568	568	568	568	568	568	568	568	568	568	568	568	568	568	568	568	568	568	568	568	568	568	
Delhi (CC)	572	562	562	565	573	573	573	573	573	573	560	560	565	568	568	568	568	568	568	568	568	568	568	568	568	568	568	568	568	568	568	568	
E.Godavari	531	531	534	539	544	544	544	544	544	544	525	528	531	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	
Hospet	515	515	515	515	515	515	515	515	515	515	495	495	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	
Hyderabad	541	541	541	541	541	541	541	541	541	541	541	541	541	541	541	541	541	541	541	541	541	541	541	541	541	541	541	541	541	541	541	541	
Jabalpur	547	547	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549	
Kolkata (WB)	585	588	601	608	608	608	608	608	608	608	580	585	590	595	600	610	610	610	610	610	610	610	610	610	610	610	610	610	610	610	610	610	
Ludhiana	533	533	533	541	546	546	546	546	546	546	533	533	533	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	
Mumbai (CC)	606	606	606	606	606	606	606	606	606	606	591	576	576	581	585	585	590	590	590	590	590	590	590	590	590	590	590	590	590	590	590	590	
Mysuru	555	555	555	555	555	555	555	555	555	555	535	535	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	
Namakkal	545	545	545	545	545	545	545	545	545	545	525	525	530	530	530	530	530	530	530	530	530	530	530	530	530	530	530	530	530	530	530	530	
Pune	590	590	590	590	590	590	590	590	590	590	575	560	565	570	570	572	572	572	572	572	572	572	572	572	572	572	572	572	572	572	572	572	
Raipur	540	540	545	548	550	550	-	540	530	530	530	530	533	533	533	533	533	533	533	533	533	533	533	533	533	533	533	533	533	533	533	533	
Surat	580	580	580	585	585	585	585	585	585	585	585	585	585	585	585	585	585	585	585	585	585	585	585	585	585	585	585	585	585	585	585	585	
Vijayawada	531	531	534	539	544	544	544	544	544	544	525	528	531	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	
Vizag	540	540	540	540	540	540	540	540	540	540	545	545	545	547	547	547	547	547	547	547	547	547	547	547	547	547	547	547	547	547	547	547	
W.Godavari	531	531	534	539	544	544	544	544	544	544	525	528	531	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	534	
Warangal	543	543	543	543	543	543	543	543	543	543	528	513	518	522	524	526	526	526	526	526	526	526	526	526	526	526	526	526	526	526	526	526	

Prevailing Prices																																
Allanabad (CC)	590	590	600	605	605	605	600	586	576	576	576	576	576	576	576	576	576	576	576	576	576	576	576	576	576	576	576	576	576	576	576	576
Bhopal	550	550	555	-	560	560	-	550	540	540	-	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540
Indore (CC)	540	550	550	-	560	560	-	540	540	540	-	540	550	550	550	550	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540
Kanpur (CC)	571	571	571	571	571	571	571	571	571	571	557	557	557	557	557	557	557	557	557	557	557	557	557	557	557	557	557	557	557	557	557	557
Luknow (CC)	610	610	610	610	610	610	610	610	610	610	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600
Muzaffarpur (CC)	590	590	600	608	608	608	605	597	594	594	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600
Nagpur	550	540	560	565	565	565	-	545	540	530	533	533	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550
Patna	590	590	600	608	608	608	605	597	594	594	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600
Ranchi (CC)	595	590	600	605	605	605	595	590	590	590	590	590	590	590	590	590	590	590	590	590	590	590	590	590	590	590	590	590	590	590	590	590
Varanasi (CC)	600	600	610	617	617	617	607	600	593	593	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600



4<sup>th</sup> Expo in Nashik



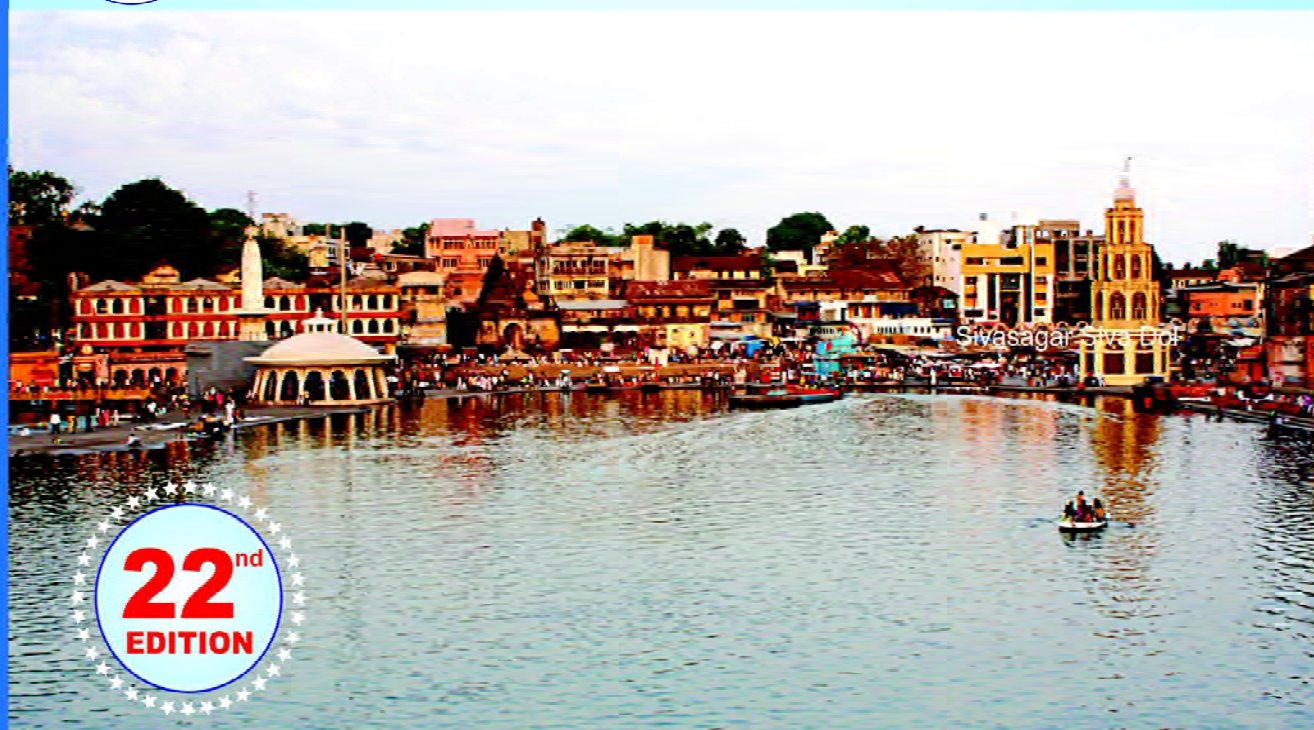
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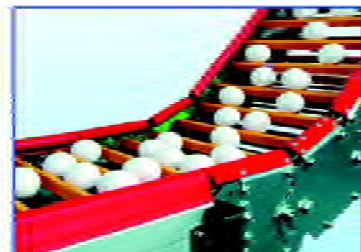
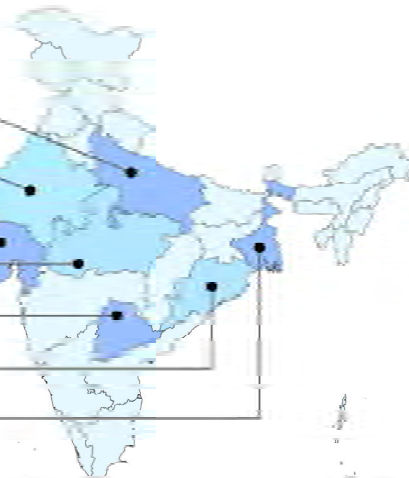
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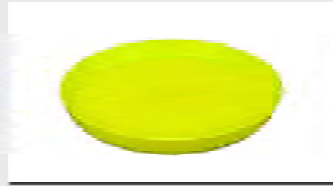
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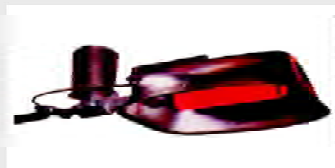
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