

# हिंद पोल्ट्री

# HIND P OULTRY

Vol. XXI January 2023 No. 7



**Srinivasa Farms & Hy-Line International hosted Technical School** Pg. 09



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**Poultry Federation of India organized its 33rd Annual General Body Meeting** Pg. 15

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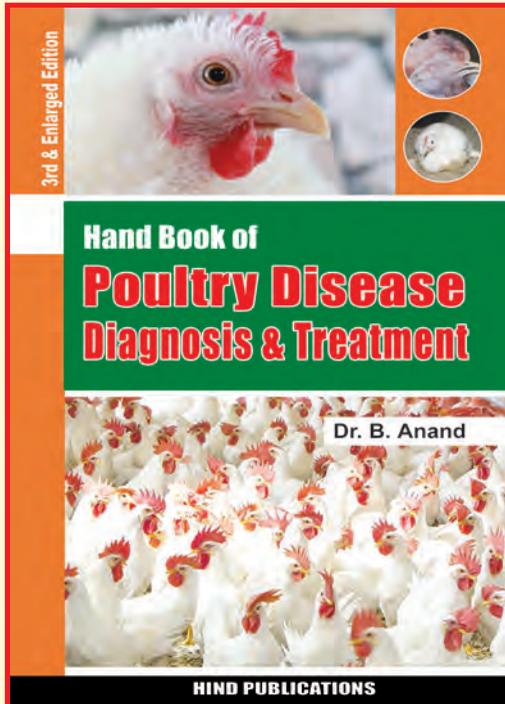


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Drugs and Biologicals are extensively used for the prevention and treatment of poultry Diseases. They are supplied by Pharmaceutical companies and other Agencies. The book "Poultry Disease diagnosis & Treatment" 3<sup>rd</sup> edition will contain Information about poultry Drugs and vaccines used in Poultry Industry. under different heads; i.e pharmaceuticals, premixes, Homeopathic drugs, non proprietary Drugs and Biologicals. Disinfectants and sanitizers will also be included in this new and revised edition. Currently available drugs will be listed according to their pharmacotherapeutic classification. Identical products (Containing the Same Active Pharmaceutical Ingredient ~ API) of different brands will appear together.

The Composition, Indication, Dosage level, and Name & Address of the Manufacturer will also be listed in this Book.

**CHOOSE YOUR CATEGORY**

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**ENTRY FORMAT**

Name of the Product.....  
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 Composition.....  
 Indication.....  
 Dose.....

**Manufacturer's Address** : .....

**Phone No.** : ..... / .....

**E-mail** : .....

**Website** : .....

*\* Note : Use additional format if products are more than one.*





MONTHLY POULTRY MAGAZINE

VOL. XXI No. 7 January 2023

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Publisher :  
**SUGANDHA VYAS**

Editorial & Regd. Office

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# 204, Plot No. 19, Huda Complex,  
Saroor Nagar,  
Hyderabad - 500 035.  
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E-mail : hindpoultry@hotmail.com

Website : **www.hindpoultry.com**

YEARLY SUBSCRIPTION :

India Rs. 500/-

OTHER COUNTRY : \$ 60 or Equivalent

Edited, Printed, Published and owned by  
**M.K. Vyas and Published** from  
# 204, Plot No. 19, Huda Complex,  
Saroor Nagar, Hyderabad - 500 035. INDIA.

Design and Typesetting  
**Akshaya Graphics**, Hyderabad.

Printed at  
**Akruti Offset Printers**, Hyderabad.

A Magazine of  
**HIND PUBLICATIONS**

RNI No. 7030/2002

Subject to Hyderabad Jurisdiction

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HIND POULTRY JANUARY 2023

# CONTENTS

Harsha Chitturi weds Mahima ..... 06

Shirish Dhopeswar Receives Industry Icon award in Hyderabad ..... 06

Srinivasa Farms, Hy-Line International and Wyldox hosted ..... 09

CLFMA of INDIA gets IPJA Global Award for 2022 ..... 12

Namakkal bagged first order from Malaysia for Table Eggs ..... 12

Poultry Federation of India organized its 33rd AGM ..... 15

Farmers, traders demand clarity on new Bill ..... 19

West Bengal Govt. to serve Egg, Chicken, Fruits in mid-day Meals... 22

Meat Pro Asia 2023 kicks off visitor pre-registration ..... 27

Indian Poultry Industry Faces Certain Problems ..... 29

Post pandemic we have seen a steadfast acceptance and Preference ..... 30

The Government of Meghalaya is boosting the livestock industry .... 33

Environmentally Controlled House for Sustainable Poultry Production ... 37

Novus India launches Breeder Management and Nutrition its Latest Publication ..... 42

Mycotoxin in Poultry Feed ..... 43

Pg. 42



Pg. 09



## Harsha Chitturi weds Mahima



Wedding of Harsha Chitturi Grandson of Sri Jagapati Rao Chitturi-Founder & Chairman of Srinivasa Farms and son of Mr. Suresh Rayudu Chitturi President of International Egg Commission (IEC) and Managing Director of Srinivasa Farms was held on 18 December 2022 with Mahima at Anvaya Convention, Hyderabad. Reception was also arranged on 20 December 2022 at N Convention in Hyderabad. Wedding and the reception were attended by the close relatives of the family of bride and bridegroom, and large number of people of poultry fraternity from India and overseas. 



## Shirish Dhopeshwar Receives Industry Icon award in Hyderabad at NRC on Meat



We are pleased to announce that on 14th December 2022 Mr. Shirish Dhopeshwar, Managing director of Dhopeshwar Engineering Private limited-pioneer in manufacturing of Poultry waste rendering plants of different capacities for farm mortality, Breeder manure, Hatchery waste, Slaughter waste and also poultry dressing plants in India has received the INDUSTRY ICON AWARD.

The award was handed over by Dr. B N Tripathi, DDG, ICAR in presence of Mr. Tarun Bajaj, Director APEDA and Dr. Barbuddhe Director National Research center on Meat.

The award was presented during the 11th conference of Indian Meat Science Association and International Symposium for novel technologies and Poultry intervention for sustainable meat value chain which was held at NRC on meat Hyderabad.

Hind Poultry on behalf of people of our Poultry fraternity takes this opportunity to congratulate Mr. Shirish Dhopeshwar for this achievement. M. K. Vyas 

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- 🌟 Superior Livability
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- 🌟 Unmatched Technical Services

## Young Flock Performances Pan India

Name of the Farm	State	Week hit 90% Production	Name of the Farm	State	Week hit 90% Production	Name of the Farm	State	Week hit 90% Production
● Ram Niwas P F	Rajasthan	21	● OVO Farms Pvt Ltd	Odisha	24	● Indian P F	Maharashtra	25
● SMN P F	Tamil Nadu	22	● West Bengal L.D.C	West Bengal	24	● Srinivasa Farms Pillaipalli Unit	Telangana	25
● Rambabu P F	Rajasthan	22	● JSK P F	Tamil Nadu	24	● Sri Venkata Rama P F	Andhra Pradesh	25
● Goyal Layer Farm	Uttar Pradesh	22	● Senthil P F	Tamil Nadu	24	● Anparthi Poultryies	Andhra Pradesh	25
● Juneja Agro	Uttar Pradesh	23	● Lakshma Reddy Agro Farms	Andhra Pradesh	24	● Sai P F	Gujarat	25
● Global Poultry Product	Punjab	23	● Devi Durga P F	Andhra Pradesh	24	● Krupa P F	Gujarat	25
● Naman P F	Rajasthan	23	● D.S.P. P F	Andhra Pradesh	24	● Thakre P F	Maharashtra	26
● Khan Layer Farm	Uttar Pradesh	23	● N Jhansi Rani P F	Andhra Pradesh	24	● Sri Kanka Durga Foods Pvt Ltd	Andhra Pradesh	26
● Eggceptional Poultryies	Telangana	23	● Meenu P F	Rajasthan	24	● Divya P F	Tamil Nadu	26
● Ajay Kumar Singh Layer	Uttar Pradesh	24	● Asif Ali	Bihar	25	● Karumannan P F	Tamil Nadu	26
● Tufani Layer Farm	Uttar Pradesh	24	● Neel Layer	Bihar	25			
● Srinivasa Farms Katrenipadu Unit	Andhra Pradesh	24	● Shiv Prasad Yadav Layer	Uttar Pradesh	25			

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**Yadav Poultry Farm,  
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Mr. Shimbhu Dhayal Yadav

🌟 Flock Age	: 45 Weeks
🌟 Peak Production	: 95.45%
🌟 Weeks Above 90%	: 18 (Still continuing)
🌟 Hen House Eggs	: 144
🌟 Cumulative Feed Per Egg	: 125.55 g
🌟 Feed Per Day (Laying Period)	: 99.34 g
🌟 % Achievement of Standard H.H Eggs	: 88.29%
🌟 Feed Cost Per Egg Upto 45 Weeks @ Rs. 27/KG	: Rs. 3.39/-

🌟 Flock Age	: 35 Weeks
🌟 Peak Production	: 95.28%
🌟 Weeks Above 90%	: 10 (Still continuing)
🌟 Hen House Eggs	: 93.03
🌟 Cumulative Feed Per Egg	: 122.94 g
🌟 Feed Per Day (Laying Period)	: 102.11 g
🌟 % Achievement of Standard H.H Eggs	: 96%
🌟 Feed Cost Per Egg Upto 35 Weeks @ Rs. 25/KG	: Rs. 3.07/-

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## Srinivasa Farms, Hy-Line International and Wyldox hosted 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%

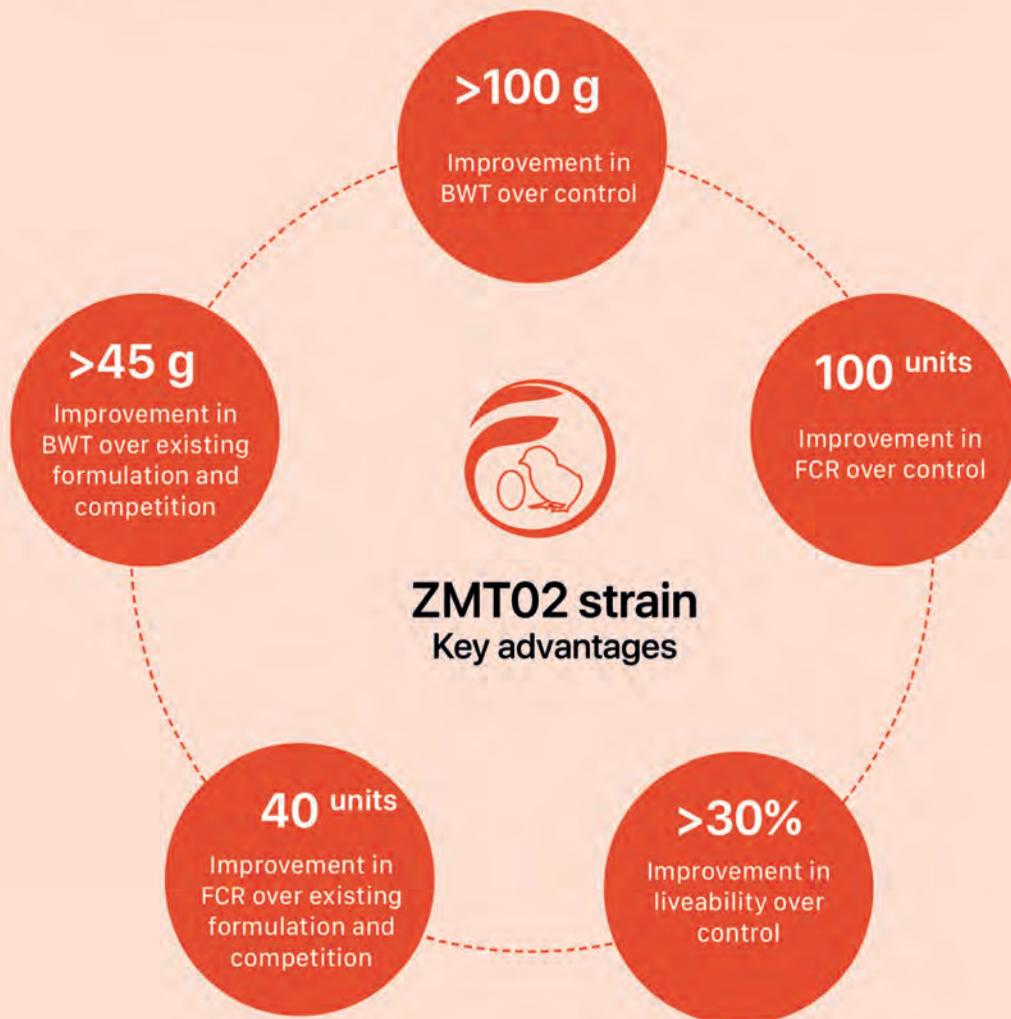
Mr. Suresh Chitturi, Vice Chairman & Managing Director, Srinivasa Farms spoke on how W-80 India has evolved from W-80 on building a robust future in layer industry which is an access to make Rs. 150 – 200 more per bird. Further more, he presented economics of W-80 India bird by sharing the performances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

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 Rs. 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



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**Improval BFS**

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## The key to total gut integrity

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which is the need of the Indian Layer Poultry Industry. Hy-Line 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.

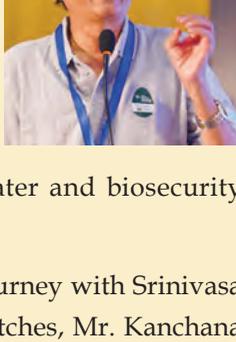
Vitor Arantes, Global Technical Services Director, Hy-Line International; Shared the evolution of W-80 India over the past five years and the encouraging field data. He also talked about how important nutrition and management are, which saves the farmer a lot of money. Every rupee saved is earned, and 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. 



## CLFMA of INDIA gets IPJA Global Award for 2022 in the category of IPJA APPRECIATION AWARD 22

IPJA Global Award for 2022 in the category of IPJA APPRECIATION AWARD was given to CLFMA of INDIA for its outstanding work for the welfare of poultry and Livestock industry in India.



We all are aware that CLFMA has been fostering the livestock industry for more than 50 years and has around 230 members representing all the stake holders of the poultry and livestock sector.

CLFMA of India has done a commendable job in terms of engaging itself with all the stake holders of the Livestock Sector by way of conducting Webinars, Government Liaising & Representations.

To quote few of its achievements, CLFMA closely engaged itself with the relevant stake holders viz associations, government for addressing the price inflation of Soybean, an important protein source of animal feed. With regard to solving the soybean issues CLFMA conducted many deliberations with the government and other relevant associations and raised a single voice and in the year 2021 Ministry of AHDF issued memorandum recommending to Commerce Ministry to allow duty free import of 1.2 million MT of soybean Meal. Also, CLFMA strongly raised voice in suspending the commodity trading for a while and limit on the over stocking, which helped many of the animal farmers. CLFMA also convinced the GOVT. to allow GM NLO Import of soybean meal, which was allowed for short period of time. It also appealed to the govt to exempt 5% GST on frozen chicken. CLFMA has been and guiding light for guiding its members towards meeting the nutritional security of the country.

Hind Poultry take this opportunity to congratulated CLFMA of India.

The IPJA appreciation award was received by Mr. Neeraj Kumar Srivastava- President CLFMA and other member of CLFMA of India. It was given away by Dr. G. Ranjeet Reddy, honorable member of Parliament in the presence of over 300 people from our poultry fraternity including Mr. M. K. Vyas, secretary IPJA at Hotel Avassa in Hyderabad. 

## Namakkal bagged first order from Malaysia for Table Eggs

P. V. Senthil, Managing Director of Kaveries Bio Protein Limited said he received the export order on 14th December 2022 from Dr. D. Biswas- regional officer, animal quarantine and certification services- southern region in Chennai.

He further said that municipal administration minister will flag off the first consignment flight at Trichy airport. He further said that Malaysian Agriculture and Food Security Minister Haslina Abdul Hamid has recently approached the Indian embassy in Kuala Lumpur Seeking support to import eggs from India urgently. Alysia has been facing a shortage of table eggs for the last few months. As chicken and eggs are part of their staple food, it is considered a serious food security issue by the Malaysian Government.

Malaysian population is also sensitive to availability and price of eggs and chicken making it a main issue in the country. N. Reddy, high commissioner of India, Kuala Lumpur wrote a letter to the Government detailing the shortage of eggs in Malaysia and their interest in importing same from India. Based on the request the agricultural and processed food products export development authority of our India Worked to expedite the certification services. Mr. Senthil said that in first consignment about 2 lakh eggs will be exported from Namakkal.

Hind Poultry feels that it's a great opportunity from this promising market. 

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Mr. Ranpal Dhanda



Mr. Ramesh Khatri



Mr. Ravinder Singh Sandhu



Mr. Ricky Thaper



Mr. Sanjeev Gupta

## Poultry Federation of India organized its 33rd Annual General Body Meeting at Hotel Hyatt Regency in Chandigarh

**P**oultry Federation of India (PFI), an apex and renowned association of Poultry Farmers, Breeders, Equipment Manufacturers, Pharma-



Mr. M.K. Vyas  
Receiving Memento

ceutical Companies and all allied Industries, organized its 33rd Annual General Body Meeting (AGM) at Hotel Hyatt Regency, Chandigarh on Thursday December 22, 2022.

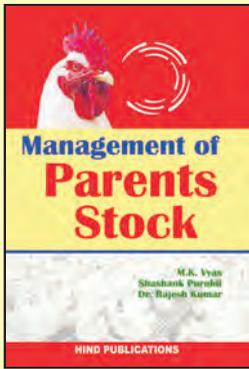
Event commenced with registration in the morning and a very warm welcome address given by President, Mr. Ranpal Dhanda. First of all he expressed his gratitude to all visitors (650+); who came on time on such cold and Foggy morning and also thanked Sponsor companies for their contribution in various categories. He also expressed his sincerest gratitude to various Ministers of Government of India and Department of Animal Husbandry and Dairying for their

work for the upliftment of poultry farmers through the published Commercial Contract Guideline for Broiler Production and demanded to increase

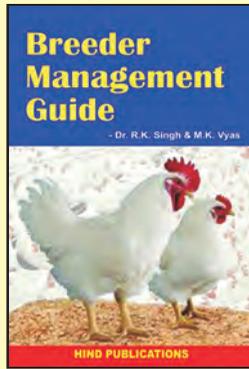
growing charge to 70% from 25% for the farmers as mentioned in the guidelines. He also requested to Ministers of Government of Punjab to implicate and follow these guidelines in their state.

Mr. Ravinder Singh Sandhu, Secretary, addressed all delegates about all the activities of Poultry Federation of India during the year and further assured that Poultry Federation of India in ensure much more drastic steps which shall help the Indian Poultry Farmer in future as well. Accounts were presented by Ricky Thaper, Treasurer, which were concurred and approved by themember delegates. The session ended with a Public address by Mr. Ramesh Chander Khatri, Chairman,

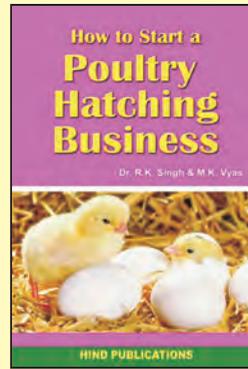
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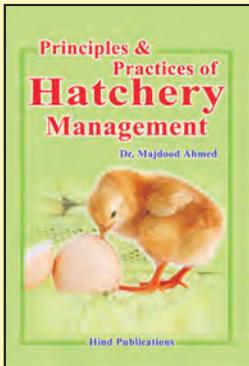
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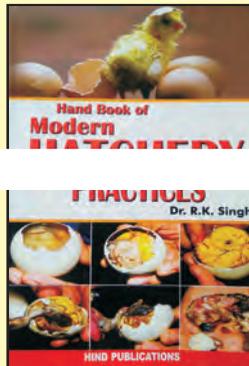
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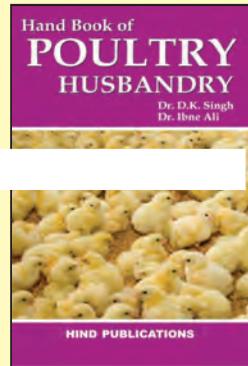
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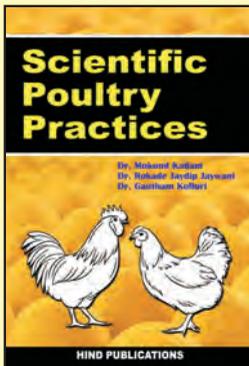
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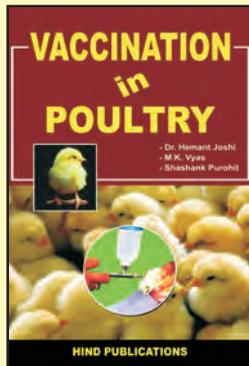
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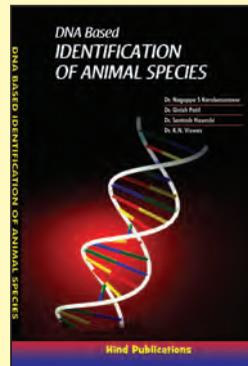
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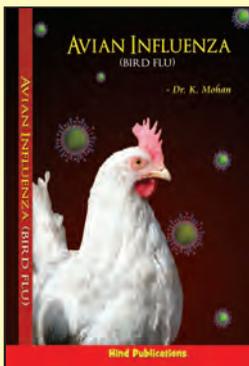
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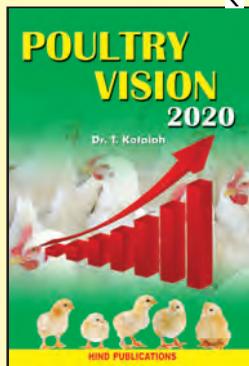
Rs. 495/-



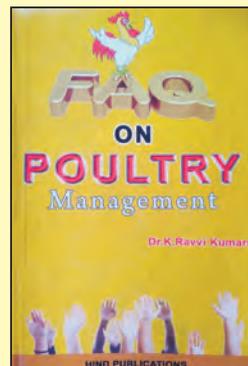
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who appreciated all delegates and the team for their rigorous efforts for the betterment of the poultry farmers.

The AGM session was followed by technical session wherein presentations on varied aspects were given by various speakers namely Dr. P. K. Shukla, Dr. Deepak Singh, Dr. P Mahesh, Mr. Susil Silva Dr. Ajit Ranade, Mr. Vijay Sardana, and Dr. Lipi Sairwal respectively. The content of these presentations covered various fields including the incentives and schemes for promotion of poultry farming by Government of India.

The Chief Guest of the AGM was Shri Kuldeep Singh Dhaliwal ji, Cabinet Minister, Rural Development & Panchayats, NRI Affairs, Agriculture & Farmers Welfare, (Government of Punjab) and Guest of Honor Shri Laljit Singh Bhullar ji, Cabinet Minister, Transport, Animal Husbandry, Fisheries and Dairy Development (Government of Punjab).

During the welcome address of the Chief Guest Mr. Ranpal Dhanda raised a serious issue regarding contract farming. He further indicated that poultry farmers cannot survive in present situation because companies are not giving fair prices to the farmers and they cannot even earn their expenses. Flock after flock their losses are increasing. He presented a calculation of fixed cost and variable Cost for a flock. That indicates that farmer's loss Rs. 27 per bird in a



single flock when all the actual costs are taken into consideration. He requested the Hon'ble Chief Guest to kindly take into consideration



all the costs before implementing these guidelines on a serious note.

Post his address, Broiler Federation, Punjab conveyed their concerns regarding contract farming to the Hon'ble Chief Guest which was in tune with the aspects covered by President, Poultry Federation of India. He further presented the research papers and recommendations by a GADVASU, Ludhiana, Punjab that studied the financial aspects and found in its report that the contract farmer is actually making severe losses.

Upon these deliberations, the Chief Guest Sh. Kuldeep Singh Dhaliwal Ji promised that this exploitation of farmers should stop across India and Punjab will be the first state to take action against such exploitation of poultry farmer setting an example for the entire country. He further gave his assurance that the Government shall support the Punjab Poultry Farmer

and entire poultry sector in all concerns in future as well. He further expressed his desire for opening of first Poultry Produce Market in Punjab as



poultry farmers of Punjab face an immense challenge due to non availability of such markets in the state and also assured of making deliberations regarding market fees on Bajra, Maize etc that should bring relief for the poultry sector in Punjab and entire India. He also emphasized that Poultry chicken and egg is the best and purest form of protein which is essentially required for eradication of malnutrition in India.



Concurring the assurances given by the Hon'ble Chief Guest, the Guest of Honour, Sh. Laljit Singh Bhullar Ji stated that the Government of Punjab will become the first state in the entire nation that will bring various rulings that shall favor the Indian poultry farmer and will always stand by the poultry farmers of Punjab including the implementations of the guidelines for contract farming. He also assured that the government of





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Punjab is more than willing to work towards the poultry farmer and Government of Punjab will try to set an example to the entire nation for the betterment of poultry farmer of the state. Being a farmer himself, the Hon'ble Guest of Honor expressed his support to Poultry Federation of India across India for improving the economic state of the poultry farmer of entire nation.

The event concluded with a vote of thanks by Mr. Sanjeev Gupta, Vice President (HQ), Poultry Federation of India who also expressed his gratitude to both ministers for their support for the welfare on poultry farmer. The event was hosted by Dr. Devender Hooda, Executive Member, Poultry Federation of India. 

## Farmers, traders demand clarity on new Bill to Prevent cruelty against animals

There should be differentiation between pet animals, draught animals, commercial animals for food, animals for performance and entertainment, and zoo animals, says head of Poultry Federation of India. As the last date to submit views and opinions on the draft Prevention of Cruelty to Animals (Amendment) Bill ended, questions have been raised, particularly by poultry farmers and traders, on the lack of clarity in defining cruelty and on the provisions for penalties. The draft Bill was prepared after demands by animal welfare activists that the 1960 Act was not enough to address the rising cases of cruelties against animals.

One major point by those who have raised objections against the Bill is the Amendment of Section 30 of the original Act, which says, "If any person is charged under the provisions of section 11B for an offence of killing an animal and if the body or any part of the body of such animal is found in his possession, then it shall be presumed that such person has committed the offence with which he has been charged until the contrary is proven, the burden for which shall lie on the accused". Ranpal Dhanda, president, Poultry Federation of India said that the proposed law is vague and will lead to more confusion and litigation. "Such provisions will impact our sector," he said. In his memorandum to the Animal Welfare Board, Mr. Dhanda said there should be differentiation between pet animals, draught animals, commercial animals for food, animals for performance and entertainment, and zoo animals. "Clubbing all in one and making one law for all like one shoe fits all will be a disaster for animal welfare itself," he said.

The Poultry Federation said the amendment did not consider poultry and other livestock, which are reared for human consumption or commercial reasons. The memorandum urged the Centre to ban NGOs seeking foreign funding from all animal welfare related enforcement and monitoring activities. "They should not be used and involved under this Act. There should not be any role for foreign NGOs under this Act," Mr. Dhanda said. The federation added that terminologies used in the draft were vague and subjective, and could lead to serious conflict, and law and order problems. "For example, 'gruesome cruelty', 'killing', etc., are not defined properly. These proposed amendments are not logical considering the diversity of the issues and challenges and in fact will create more problems and conflicts between farmers and NGOs. Delegation of power to various agencies without accountability is also a dangerous precedent," the federation said in its memorandum. Any action of NGOs or state agencies that would lead to financial losses for the farmer or trader must be compensated by the agencies intervening in the name of animal welfare, the federation demanded. 



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# West Bengal Govt. to serve Egg, Chicken, Fruits in mid-day Meals for 4 months

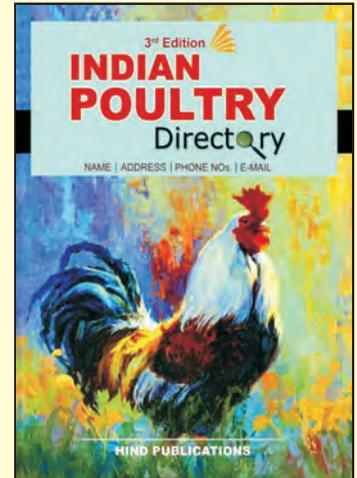


**A**head of the panchayat elections due this year, the West Bengal government has decided to introduce Egg chicken and seasonal fruits in mid-day meals for a four-month period from January. In addition to the existing midday meal menu of rice, potato, soybean and eggs, chicken and seasonal fruits will be served weekly once for additional nutrition under PM POSHAN. The West Bengal government has decided to serve chicken and seasonal fruits in mid-day meals for a period of four months starting January Under PM Poshan, chicken and seasonal fruits will be offered once a week in addition to the current midday meal of rice, potato, soybean, and eggs to provide additional nourishment.

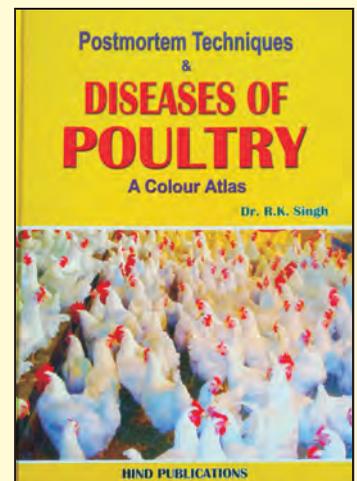
“For four months, from January 23 to April 23, additional nourishment will be provided by eggs, poultry, and seasonal fruits, which may be coupled with regular PM-POSHAN on a weekly basis. Each kid would pay an extra Rs 20 per week for supplemental nourishment,” the education department of the state government said in the notification. The provision of additional items, however, is unlikely to continue after April, a school department official. An amount of Rs 371 crore has been sanctioned for the extra nutrition scheme.

Currently, schools serve rice, pulses, vegetables, beans, and eggs to students as part of their midday meals. According to the January announcement, each kid would receive supplementary nutrition assistance once a week for 16 weeks at a cost of Rs 20. The mid-day meal programme, which is funded by a 60:40 cost-sharing arrangement between the state and the centre, benefits more than 1.16 crore kids in state-run and government-aided schools. An official informed PTI that “the additional foods would be given with immediate effect in every block on various days of the week.”

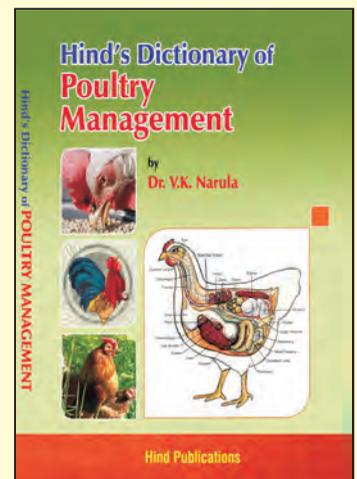
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## Meat Pro Asia 2023 kicks off visitor pre-registration and the Hosted Buyer Campaign

**M**eat Pro Asia is the premier trade platform for processing & packaging solutions for egg, poultry, meat, seafood, and alternative protein products in Asia. The fair aims to be the Asian edition of IFFA and is a joint collaboration between VNU Asia Pacific and Messe Frankfurt. Taking place on a biennial basis, the inaugural edition will open its doors from 8 - 10 March 2023 at Challenger 1 IMPACT, Bangkok, Thailand, in co-location with VIV Asia. Benefiting from exhibitor synergies, both shows are well-positioned to deliver innovative solutions from feed to table.

### Complete supply chain under one roof

Meat Pro Asia 2023 is collocated with VIV Asia, the largest trade show in Asia dedicated to the world of livestock production, animal husbandry and all related sectors, from feed production, to animal farming, breeding, veterinary, animal health solutions, slaughtering and the processing of meat, fish, egg, dairy products and more. Over 1,200 exhibiting companies will join the event,

attracting a gathering of industry professionals from more than 120 countries.

This debut edition of Meat Pro Asia is brought to life by the organizers of IFFA [Messe Frankfurt] and VIV Asia [VNU Asia Pacific and VNU Europe]. The coming together of two top industry players in the Asia region makes the shows a must-attend for all professionals in the entire animal protein supply chain.

### Coverage profile of exhibitors

Attracting key suppliers from around the world, Meat Pro Asia offers access to high potential markets in the ASEAN region. The fair focuses exclusively on solutions that deliver animal-based protein products from farm to table. This includes slaughtering, the full processing chain, packaging, labeling, cold chain logistics, quality control, hygiene, IoT and automation, wastewater treatment, and more. Visitors include processing companies, food retailers, importers, exporters, wholesalers, manufacturers, agents, distributors, and engineering firms. With the key themes of sustainability, alternative

proteins, halal, and food safety, these themes will be represented in the highlight pavilion at Meat Pro Asia.

### Who should visit?

In 5,000 sq.m of Challenger 1, IMPACT, 100+ leading companies will showcase technology and innovations for meat / food processing from primary - secondary processes as well as packaging, cold chain and logistics - a crucial component of the food processing chain. Meat Pro Asia is the trade fair for the food and grocery retail trade; department stores; hypermarkets and self-service stores; mail order businesses; wholesale trade; foreign trade (import/export); butcher's trade; slaughterhouses and processing operations; food and the non-essential provisions industry; the supplies industry for the butcher's trade and the meat-processing industry; hotels, restaurants and public houses; snack bars and fast food outlets; communal, company, and system catering; press, media and publishers; public authorities; universities and institutes of higher education.

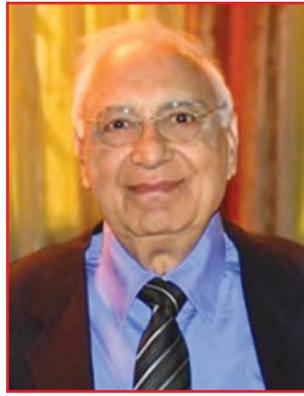


### Participate in Meat Pro Asia as a buyer

Our goal is to provide you with the perfect platform for professional success by connecting with the right vendors and by staying up-to-date with the latest trends in the food processing industry. The organizer of Meat Pro Asia has launched the 'Hosted Buyer Program', a special offering for potential buyers to participate at the show with extra privileges. This includes scheduling appointments in advance based on your needs, and great opportunities to network with leading brands. Other advantages include VIP access to onsite events and activities. If you are a decision maker of C-level management who plans to find new business in Asia, apply with this form for a chance to become part of the Hosted Buyer Program by Meat Pro Asia.

Meat Pro Asia is pleased to provide facilities that are suitable for all visitors! The organizer will provide FREE shuttle services to and from the IMPACT venue, a list of recommended hotels, the assistance of our official travel agency to help you book and find the best hotel location, restaurant recommendations, and much more. We are keen to look after our visitors and gladly offer help to plan their stay and travel. 

## OBITUARY



**03-03-1940 TO 19-12-2022**

**Shri Om Prakash Khurana**, the Veteran Poultry legend passed away on 19-12-2022 at the age of 82. He established Raj Breeders in the year 1997 in Hyderabad and never looked back. Shri Om Prakash Khurana ji was born on 3 March 1940 in Mandalay, Myanmar. He was a gold medalist in B Com & B LLB from Rangoon (Yangon) University. He came to Hyderabad in 1963 and started his business career in a small way. His poultry journey started in 1976 and he never looked back till his demise. He started an Egg Layer farm at Hyderabad. He joined Singh Poultry as a Director. Singh Poultry grew to be a leading hatchery supplying then popular Rani Shaver & Kegg Farms layer and Broiler chicks and spread in to other states like Orissa, Maharashtra, Karnataka under his leadership. He also held the position of Joint Managing director in Basik Breeders, a Pure line breeding venture with Shaver brand Broiler and Layer Pure Line stocks started in 1983.

Raj Breeders came in to existence in 1997 as his own breeding farm venture, ably assisted by his son Mr. Gaurav Khurana which became a popular brand to supply quality chicks and hatching egg of leading brands. Shri. O.P Khurana was known for his finance management with efficient purchase of Inputs. The family owned Raj Chick Farms, an integrated Broiler production company has been operating in other states like Chattisgarh, U.P, Bangalore etc. He faced major challenges during 2003, when the first case of Bird Flu hit India along with the whole Industry.

Shri Om Prakash Khurana was always very receptive to the advice of his colleagues within the industry, Technicians and his Employees. He encouraged his employees to be independent and many of his employees are extremely successful in their own businesses as of now. Shri Om Prakash ji always faced his difficult days with a smile on his face. He was broad minded and good at heart - A HEARTFUL SOUL He will always be remembered for his smiling face, and broad mindness. Hind poultry on behalf of its staff, readers and all the welwishers send deep condolences to the member of Khurana ji's family. 



## Indian Poultry Industry Faces Certain Problems (Poor Past of the Indian Poultry Industry)

Dr S.K.Maini, Vesper Group, Bengaluru

**T**he actual flock problems responsible for the in-efficiency, poor performance, variety of diseases and financial losses are never discussed in any of the conferences, meetings and the farmers get together's.

Errors exist in all the area's of the poultry farming sector, like receiving the chicks from the hatchery, brooding, feeding, nutrition, diseases, vaccines, bio-security, hygiene, sanitation, managing the employees and workers, and financial management. Frequently changing policies of the ICAR , Govt. of India, with respect to the Poultry Farming Industry and the periodic restrictions imposed due to the lobbying by certain groups and persons have interfered in the prosperity and growth of this Industry. With hundred's of Scientist and qualified personnel available, we have seen the failure of ICAR- CARI, and the Research Projects at various Universities to produce a world class Layer or a Broiler Breed for the Indian market till this day.

Manipulations and Corruption by the concerned Bureaucrats, Bankers, Central and State Govt. Officers, Manager's and Staff of the Companies, Feed Plants, Hatchery Owners, Consultants/ Advisors/Experts and Doctors, all have taken advantage of the farmers poor awareness and knowledge that has led to the present day situation. All the Random Sample Test Farms for the testing of the performance of Layers and Broilers have been closed due to inefficient management and corrupt practices.

In short it is management of birds, men, materials and finances, unless all are properly and efficiently managed the results will be erratic leading to disaster .

Over the years, We have seen Pure-Line Breeding Farms, Grand Parent farms, Plus numerous Parent Stock Breeding Farms and Hatcheries closing down in India, due to the above given reasons and the owners, directors, senior veterinarians and management experts employed, who were either ignorant, egoistic, full of false prestige and sabotage in few cases or suffered due to a combination of all the above mentioned characters/reasons.

Some of the best Pure Line and Grand Parent Farms that closed down due to the above mentioned reasons, are listed below :

1. Poona Pearls, (Sonali and Rupali layers, Samrath Broilers) Pune, Maharashtra.
2. Basik Breeders, (Shavers layers and Star Bro Broilers) Hyderabad.
3. Bovns Poultry Breeders ( Bovans layers and HypecoBroiers) Hyderabad.
4. DJ Group, (Delak Layer Breeders), Bengaluru, Karnataka.
5. Kasila Farms Group (Hubbard Broilers) Hyderabad.
6. Tarkeshwara Hatcheries, (AnakBroilers ), Nasik, Maharashtra.
7. Tegel Breeders (Australian Broiler GP's), Chennai, Tamil Nadu
8. Essex Farms, (Hisex layers and Hybro Broilers GP's).
9. Damaniya Group (Broiler Breeders GP's), Ahmed Nagar, Maharashtra.
10. De Souza Group, (Hubbard GP's) Nasik,

Maharashtra. 11. Arbor Acres Farms, (AA GP's), Pune, Maharashtra. 12. BLV Hatcheries (Lohmann Broiler and Layers GP's). 13. CSR Farms, ( Ross Breeders Layers and Broiler GP's), Gurgaon, Harayana. 14. Rani Shaver Breeding Farms (Shaver Layer and Star Bro Broiler GP's), New Delhi. 15. CBR Group (Hyline Layers GP's ), Hyderabad. 16. India Poultry Farms, Bengaluru. 17. Marshal Breeders ( Broiler Breeder GP's). 18. Government of India's Random Sample Test Farms for the Layers and Broilers.

All the above mentioned breeds or type of birds were good and performed well under Indian weather conditions. However the Companies closed and perished due to the above mentioned reasons. While the birds were blamed for the losses due to non acclimatisation of the breeds to Indian Climatic Conditions, Diseases, Farms Management and Nutrition.

Poor flock management, erratic administration, lack of efforts on marketing front, poor vision, inefficient staff, financial irregularities, using sub-standard materials in feed and medicines, going for cheap alternatives, guess work and wrong diagnosis, misuse of antibiotics and vaccines, poor technical services and awareness of the farmers are some of the reasons for the poor past of the poultry farming industry, many of these are being carried forward till this day. We should be thankful to the birds and the farmers who contributed sufficiently to bring India to this position on the world map for eggs and broiler production, and solving the employment and nutritional requirement of crores of its population. 

## Post pandemic we have seen a steadfast acceptance and Preference towards Processed Meat



**We anticipate considerable breakthroughs in the poultry industry, as well as increased consumption and adaptability of processed meat in India by 2023**



**B. Soundararajan**

The year 2022 was favorable to the poultry sector as a whole. In India, the poultry industry produces and consumes 600 billion eggs and 6 million tonnes of chicken meat every year.

We have noticed that the consumption pattern of consumers has slowly shifted from food security to nutritional security with an increased awareness towards protein consumption. This year, chicken continued to remain the preferred choice of meat amongst the consumers despite having the same protein value as fish and mutton, resulting in an overall boost in the Agro food industry.

The increase in Per Capita income has been a major influence in increased meat purchase across regions. More hotels, restaurants, and cafes (HORECA) have developed leading to the heightened demand for meat products. With these factors playing a key role, the sector has witnessed poultry companies operating at near-full capacity in 2022. Post the pandemic, we have also seen a steadfast acceptance and preference towards processed meat opening up more avenues for growth in this sector. Safety and Hygiene play a key role and the consumer's global exposure has influenced the consumption of processed meat. All in all, we anticipate considerable breakthroughs in the poultry industry, as well as increased consumption and adaptability of processed meat in India by 2023." 



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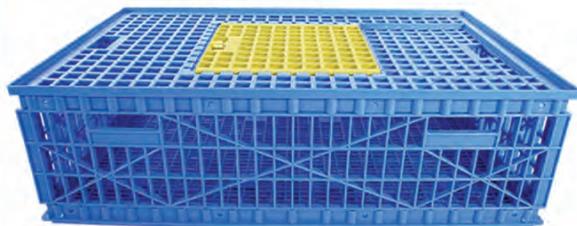
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## The Government of Meghalaya is boosting the livestock industry to create further employment in the state



India is one of the world's top producers of products related to animal husbandry and livestock. In India, dietary habits have changed as a result of changing lifestyles and increasing per capita income. An increase in demand for livestock products is being caused by rising consumption of milk, meat, and eggs. Over 20.5 million people in India are reliant on livestock for their means of subsistence, making the Indian market for animal husbandry worth INR 930 billion in the year 2020. The sector currently makes up 25.6% of the agricultural GDP and 4.11% of the overall GDP, which is significantly less than its potential. Due to the topography, climate, and socioeconomic circumstances of Meghalaya, only about 10% of the state's total land can be used for agricultural purposes. A popular source of secondary income the villagers rely on is raising livestock. The application of modern technologies has raised the potential for commercial livestock and poultry farming as a full-time occupation for a decent living. Meghalaya's annual growth rates for milk, eggs, and meat over the last three years have been 2.76 percent, 1.47 percent, and 2.95 percent, respectively.

Although breeding cattle for

commercial dairy production is a relatively new concept in Meghalaya, there has been a high growth in the consumption of dairy products in the state, which has led to commercial success for dairy farmers. Meghalaya has some of the best dairy, draught, and dual-purpose cattle breeds. Many of these breeds contain advantageous genes for rapid growth, profusion, and adaptability. The Meghalaya Milk Mission, launched by The Government of Meghalaya, led by the Hon'ble Chief Minister, Shri Conrad Sangma, seeks to replicate the structure of the White Revolution in India by encouraging new farmers to participate in the development of community-based dairy cooperative societies and community ranches. Under the initiative, 66 dairy co-operative societies, 588 beneficiaries with 1,066 cattle have been provided Rs. 25.4 Cr of financial support. The mission's



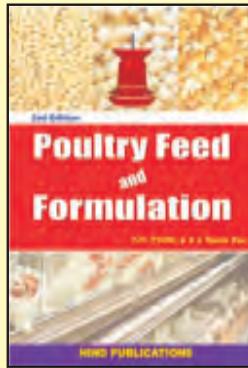
goal is to educate and train dairy farmers to produce hygienic milk to boost rural productivity and prosperity. In order to improve the economic and nutritional status of the Meghalayan population, the State Government launched a Rs. 209-crore Piggery Mission, uplifting the incomes of over 25,000 households. For generations, pig rearing has been a crucial source of income in the state. The Piggery Mission aims to affect a radical shift in domestic pork production. The mission's primary objective is to establish economically viable, self-sustaining breeding and fattening units throughout Meghalaya. Through the mission 253 co-operatives have already received Rs. 44.85 Cr in monetary grant. 1109 units sanctioned for breeding 3866 units sanctioned for fattening.

Fisheries play a very important role in Meghalaya, not only in the creation of livelihoods for the farmers through a variety of income-generating activities such as fish culture and marketing, but also in value schain management via ornamental and recreational fisheries as well as tourism. The Government launched the Meghalaya State Aquaculture Mission 2.0 with a Rs. 378 Cr investment. In comparison to

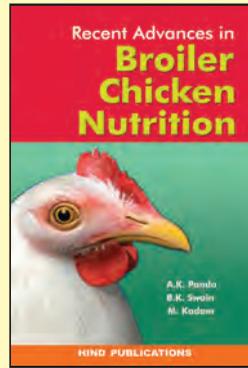
2016-17, fish production increased by 30% in 2020-21. In 2020-21, the production of fish seeds rose to 13.79 MT. A further 1,400 Ha of water has been set aside for fish farming. 7,000 fish farmers have benefited from the ongoing Meghalaya State Aquaculture Mission. To make the most of upcoming opportunities in the industry, the mission is actively enhancing vital aspects of aquaculture in the state, such as area and productivity expansion; critical infrastructure development; establishing sanctuaries for conserving indigenous and endemic species; and capacity building in terms of human resources. Previously, the local poultry industry in Meghalaya had very low productivity, producing an average of 105 eggs per layer, whereas the improved birds now produce 200-230 eggs per layer or more. Through the introduction of improved breeds, the state's Poultry Development Program has sought to increase the productivity of the state's poultry. Efforts are also being made to commercialize the poultry industry by providing poultry farmers with convenient marketing facilities.

Under the leadership of Hon'ble CM Shri Conrad Sangma, the Meghalaya state government is working to create a development-friendly environment through initiatives such as the Meghalaya Milk Mission, Piggery Mission, and Meghalaya State Aquaculture Mission 2.0 for the expansion of rural entrepreneurship and the improvement of rural living conditions. Meghalaya is determined to achieve its goal of becoming self-sufficient in terms of resources and infrastructure and to be a high-value contributor to the nation's success in the animal husbandry industry. 🇮🇳

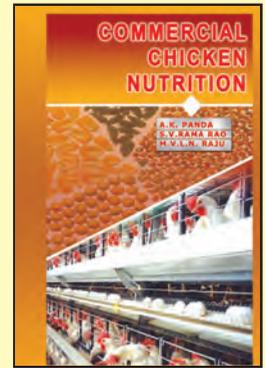
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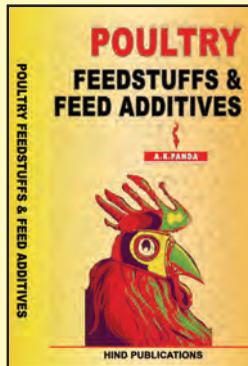
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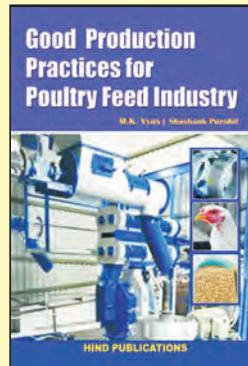
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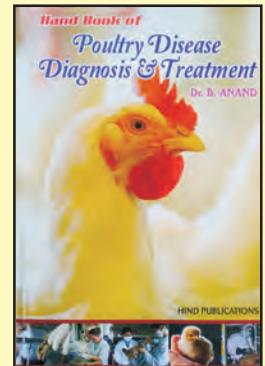
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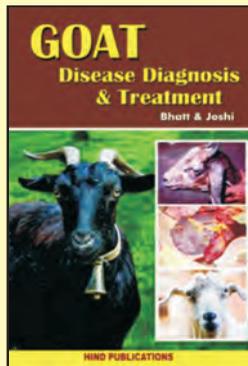
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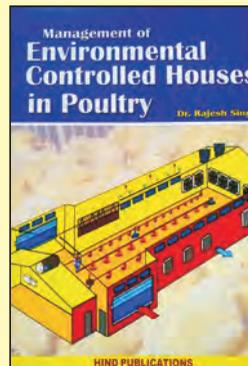
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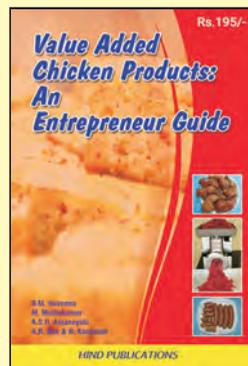
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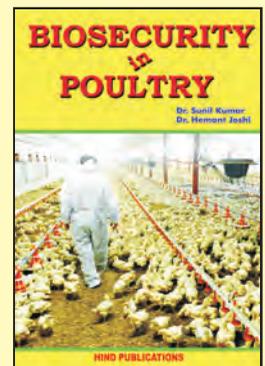
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# Environmentally Controlled House for Sustainable Poultry Production

Dr Jeyapriya S, Dr Rushikesh A. Kantale, Dr Mehak Jandyal  
Ph.d Scholar Department  
of Livestock Product Technology,  
Gadvasu, Ludhiana



## Introduction

- In this poultryhouses, the optimum requirements of the bird is provided inside a completely enclosed and insulated house without windows.
- fresh air is brought-in and stale air is removed mechanically.
- Artificial light is provided to illuminate the interior.
- On most occasions, animal heat is used and additional heat is used mainly for brooding period

## Structure

- Good foundation and a gable roof
- Insulation is compulsory
- Overhang need not be as extensive as in case of open-sided houses because, sides are completely covered
- Both sides and the top of the building should be given protection.

## Ventilation

### Hot and Cold Weather Ventilation:

- Ventilation system in a poultry house consists of fans, air inlets, evaporative cooling system and controller/thermostats.
- Houses are designed to deal with both cold and hot weather extremes.

### During Cold weather:

- Negative pressure ventilation is used to provide fresh air, remove moisture and minimize heat loss. Fans exhaust air out of the house creating a slight negative pressure inside the house.

- Fresh air is pulled into the house through air inlets installed either high on the house side wall or in the ceiling.
- The fresh air should be directed towards the roof to mix with warm air and then circulate throughout the shed.
- Distribution of inlets uniformly around the perimeter of the building, size of the fans and inlets are critical if all areas of the house are to be ventilated.
- The location of the fans and air inlets depends upon the width of the building. Fans should be placed in one side wall for buildings up to 40 feet wide.
- Buildings more than 50 feet wide need fans on both sidewalls. Air inlet size is critical to proper functioning of the ventilation system.
- The air inlet velocity must be high enough to ensure fresh air reaches all portions of the facility. However, the air velocity must not be so high that the birds are subject to draughts.
- Computer controlled system can be used to determine when the fans operate and for how long.

### Older Birds and in Hot Weather:

- The incoming air is directed down towards the birds and helps to keep them cool. Evaporation cooling pads can be placed in the air inlets to keep birds cool in hot weather.
- Tunnel ventilation is the most effective ventilation system for large houses in hot weather.
- Tunnel ventilation systems consists of fans at one end or middle of the house and larger air inlets at the opposite side.



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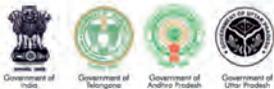
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- Evaporative cooling pads are located at the air inlets. When tunnel ventilation is not sufficient to cool the house, the evaporative cooling system is activated.
- Energy in the form of heat is used to evaporate water lowering the air temperature. Sometimes water will not evaporate which led to wet litter problems.
- This problem is corrected by moving the evaporative cooling system outside of the house.

### Construction of Shed

- Poultry houses are constructed with wood or steel trusses and supports. The houses are clear span structures from side wall to side wall.
- The trusses are engineered to support the weight of the roof without the need of support posts.
- The floor of the shed is compressed dirt that is covered with bedding material.
- For controlled-environment housing of layers, multi-tier cage systems are common. House dimensions are usually 40-50 ft wide, 400- 600 ft long with 8 ft high sidewalls.

**SIDE WALL CURTAIN SYSTEM**

**Benefits**

- ✓ Used as a physical protection shield & as an insulator, acting as a temperature barrier.
- ✓ Used to shield the shed.
- ✓ In case of Power Failure the Curtains can be raised to keep the circulation of fresh air through the shed.
- ✓ It avoids Wet Litter Problem in EC Poultry House

**Application**

- ✓ To Construction the EC House we can use either Brick Wall or HDEP curtain
- ✓ Used in EC shed tunnel ventilation system



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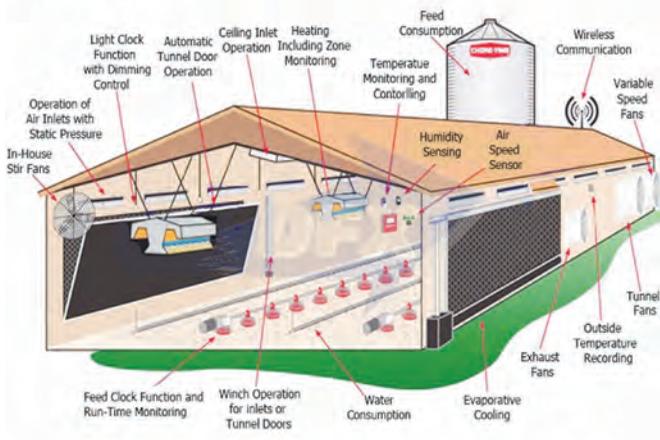
### Ceiling and Side Walls

- To improve ventilation and reduce heating costs, most houses are constructed with dropped ceilings.
- Insulation can dramatically affect the level of supplemental heat and ventilation requirements.
- Dropped ceilings protect the trusses and ceiling insulation by acting as a vapor barrier.
- Dropped ceilings reduce the ceiling surface area and allows for the installation of ceiling insulation to reduce heat gain in during hot weather and heat loss during cold weather.

- Modern houses are well insulated with blown in cellulose or fiber glass insulation. The effectiveness of insulation is measured by its R-value.
- Insulation values of at least R-21 and R-7 are recommended in the ceiling and walls, respectively. Houses are constructed with solid side walls which provide better insulation, reduce air leaks, provide better light control and allow the house to be heated more efficiently.
- The use of solid side walls provides a smooth surface compared to open sides walls with posts. This improves air speed during tunnel ventilation that will increase the cooling of birds next to the wall.



### 1. Building System



### Cooling

- When outside temperature exceeds 29.4 , it is mandatory that poultry houses must be cooled by any of the following methods.

### Low-pressure Fogging System

- Fogging nozzles are installed at regular intervals throughout the building or over the birds in cages
- So that, as and when necessary, fogging can be practiced.
- The details of calculation of pad and fan requirements are given under "Mechanical ventilation". However, the two types of this system namely.



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## Insulation

➤ A well-insulated building is needed for EC houses

➤ It prevent condensation on the inside surfaces, reduce heat loss in cold weather, and reduce solar heat gain in warm weather



## Automatic controls

➤ To maintain the indoor temperature and provide air exchange as weather changes hourly and seasonally

➤ Regulate the supplemental heating rate

➤ Solid state controllers and computer systems capable of controlling the inlet and outlet opening and supplemental heaters



## Pad-and-fan System

The details of calculation of pad and fan requirements are given under "Mechanical ventilation".

1. Pressurised system
2. Vacuum system
3. Fog-and-fan system
4. High-pressure fogging system
5. Additional cooling: by using white washing

## Light Control

- Environment-controlled houses are light-proof
- Where fans are installed in the side, light-traps must be installed to prevent light seeps into the building by providing a hood on the outside of the building over an opening extending down far enough to prevent light from entering.
- However, light-traps are likely to obstruct air movement and hence a floor requirement increases.

## Control of House Environment

- Almost all modern houses rely upon electronic controllers.
- Through the use of controllers, it is possible to keep house temperatures within five degrees of the desired temperature regardless of outside temperature.
- The controller monitors house environmental conditions and adjusts the heating, Humidity, ventilation and cooling equipment as necessary to keep temperatures constant.
- The controller operates equipment in the house including: brooders, fans, inlet machines, curtain machines, evaporative cooling systems and lights.
- Alarms are used to notify if there is loss of power or if the house internal temperature gets too high or too low in relation to the desired temperature or for other malfunction. 



## Novus India launches Breeder Management and Nutrition its Latest Publication

*Novus's latest publication showcases insights and experience of industry experts around the world*

The Novus India team held a successful launch of our latest book, Breeder Management and Nutrition: Moving the industry forward, during Poultry India Expo 2022 at Hyderabad. One hundred twenty breeder operators, media, and business partners from India, Bangladesh, and Nepal shared their overwhelming responses to the new publication during the event.

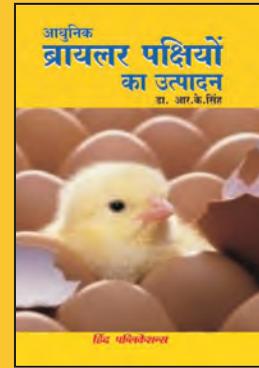
Novus Executive Manager for Global Poultry Solutions Hugo Romero-Sanchez, PhD., was joined by a fellow book author virtually to present highlights from the book on the topics of progeny, macro minerals, and male breeder nutrition.

The book's 14 chapters were carefully curated to serve as a reference for current broiler breeder production best practices and considerations as well as to be a catalyst for new ideas in management, nutrition, and industry

sustainability. Those in the industry and academia will likely recognize the book's contributors : Eddy Decuypere of KU Leuven, Aitor Arrazola of Perdue University, Rickvan Emous and Annemarie Mens of Wageningen Livestock Research, Henk Enting of Cargill, Dinabandhu Joardar of Cargill, Edgar O. Oviedo-Rondón of North Carolina State University, Rebecca Forder of the University of Adelaide, Johan Buyse of KU Leuven, Juan Carlos Abad and Robin Jarquin of Cobb-Vantress, David Cavero Pintado and Xabier Arbe Ugalde of H&N International, and Stanislaw Budnik, Juxing Chen, Silvia Peris, Hugo Romero-Sanchez, and Mercedes Vázquez-Añón of Novus.

"It was important to have contributors from recognized academia, as well as experts from the industry and breeding companies, to properly cover the vast array of topics ranging from practical management, nutrition (quality and quantity), welfare, (epi) genetics and physiology," Buyse said. 📖

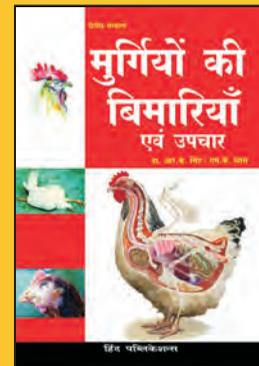
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# Mycotoxin in Poultry Feed

**M**ycotoxins are toxic secondary metabolites of molds, primarily produced by species of the *Aspergillus*, *Penicillium*, and *Fusarium* genera. Depending on weather conditions during the growing, harvesting and post-harvest season, livestock feed - particularly grains - can become susceptible to mycotoxin growth and infestation.

Due to their toxicity, mycotoxins pose severe health risks for both humans and animals. Symptoms of mycotoxicosis vary by species and range from dermal lesions and decreased growth to organ failure and death. Thus, their presence in livestock feed is monitored through federal regulations that set maximum tolerance levels based on the species, age, and production stage of the animal(s) to be fed.

In a global survey of mycotoxin prevalence, 77% of the North American livestock feed ingredient samples tested positive for the presence of at least one mycotoxin above the threshold level. Therefore, in any livestock feeding system, it is imperative to understand the threat that mycotoxins pose to animal health and implement proper monitoring and management procedures to reduce the risk of mycotoxicosis.

Before delving into mycotoxin management, it is important to understand the characteristics of commonly occurring mycotoxins, such as the fungi

genera from which they are produced, feed material with the highest risk of infection, and ideal conditions for growth. Although over 400 mycotoxins have been identified, we will focus on the five most common categories of mycotoxins in feed manufacturing, which include aflatoxins, ochratoxins, trichothecenes, fumonisins, and zearalenone.

Aflatoxins include Aflatoxin B1, B2, G1, and G2, which primarily are produced by *Aspergillus flavus* and *Aspergillus parasiticus*. Aflatoxin B1 is the most common of all the aflatoxins and is also the most potent, being listed as Group 1 human carcinogen by the International Agency for Research on Cancer. Growing conditions that promote the growth of aflatoxins in field grains include warm ambient temperatures ranging from 24°C to 32°C and little to no moisture. Thus, geographic locations with hot and dry climates are more susceptible to aflatoxin infestation in grains, especially if the integrity of the grain has been compromised by insect damage. Raw feed grains that may be susceptible to aflatoxins include corn, sorghum, soybeans, wheat and barley. Animals consuming aflatoxin-contaminated feeds are likely to experience liver diseases as the liver is the primary target organ of aflatoxicosis. The US Food and Drug Administration (FDA) has determined aflatoxin in corn should not exceed 100 ppb for mature poultry or 20 ppb for chicks.

Ochratoxins are unique in that they are produced by species of both *Aspergillus* and *Penicillium*, with ochratoxin A being the most common of the ochratoxins. Growing conditions that promote the growth of ochratoxin A are not fully known, so it is commonly regarded as a mycotoxin that grows under improper storage conditions. Raw feed grains that are most likely to be contaminated by ochratoxin A are barley, oats, wheat, and rye, and animals consuming ochratoxin A-contaminated feed are likely to experience renal failure and intestinal necrosis.

Trichothecenes are Fusarium toxins and are categorized into four types. Type A and Type B are the most common and are differentiated by the presence or absence of a carbonyl group at the C-8 position of the molecular structure. Type A trichothecenes include T-2 toxin and HT-2 toxin, which are the most toxic trichothecenes. Growth of T-2 and HT-2 toxin is optimized in colder climates with temperatures ranging from 6°C to 24°C. Toxic effects of T-2 and HT-2 toxins include digestive disorders and immune suppression. There are currently no regulations for monitoring the concentrations of T-2 or HT-2 toxins in livestock feed.

Type B trichothecenes primarily are represented by deoxynivalenol (DON), also known as vomitoxin. Similar to T-2 and HT-2 toxin, DON is cultivated in cool, moist conditions. Unlike the Type A trichothecenes, DON is much less toxic in comparison and must be present in high concentrations to have a toxicologic effect in poultry. Even so, DON is highly prevalent in



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corn, sorghum, barley, oats, soybeans and wheat, which is why the FDA has regulated its presence in livestock feeds. Regulations state that DON concentrations in grain and grain byproducts for poultry should not exceed 10 ppm to avoid any deleterious consequences of DON toxicity.

Fumonisin, such as fumonisin B1, B2, and B3, are most commonly produced by *Fusarium verticillioides* (formerly *F. moniliforme*) and *Fusarium proliferatum*. It is believed that drought followed by warm, wet weather at harvest may be responsible for the proliferation of fumonisins in field grains, specifically corn and sorghum. Fumonisin toxicity is likely to result in liver failure and immunosuppression in broilers. To minimize the risk of fumonisin toxicity, the FDA has determined that broilers, breeders, and chicks should not be fed corn or corn byproducts containing greater than 100, 30, or 10 ppm fumonisin, respectively.

#### Zearalenone

Zearalenone is commonly produced by *Fusarium graminearum* and can infect grains when field conditions are cool and moist, similar to the trichothecenes. Zearalenone is most notable for its effects on reproduction in poultry because it is similar in structure to estrogen, which can lead to hyperestrogenism as zearalenone competes with estrogen for receptors. Raw feed grains that are likely to be contaminated with zearalenone are primarily corn but also include sorghum, barley and wheat. To date, there have been no regulations enforced concerning the concentration of zearalenone that is acceptable in livestock feed.

Of all the mycotoxins discussed, DON is the most prevalent in North America and is detected in approximately 83% of feed ingredients, followed by zearalenone (60%), fumonisin (57%), aflatoxin (5%), T-2 toxin (5%), and ochratoxin A (3%). To further complicate the evaluation of mycotoxins in livestock feeds, mycotoxin co-contamination of a single feed ingredient is more common than it is not. That is, if a feedstuff is contaminated by a single mycotoxin, it is likely that other mycotoxins are present as well. In fact, 72% of the North American feed ingredients included in the 2019 Biomin survey were

contaminated by two or more mycotoxins. When multiple mycotoxins are simultaneously present in a feed ingredient, the interactive effects between mycotoxins can be described as additive, antagonistic, or synergistic. An additive interaction is one in which the combined effect of multiple mycotoxins is equal to the sum of the individual mycotoxin effects. If the combined effect of two or more mycotoxins is less than additive, the interaction is antagonistic, and if the combined effect is greater than additive, the interaction is synergistic. While it is essential to acknowledge the reality and complexity of mycotoxin co-contamination, implications of co-contamination are broad, encompassing many different mycotoxin combinations, and research in this area is still warranted.

Once cereal grains have been infected, there are very few processes that can effectively reduce the concentration or toxicity of mycotoxins. Thus, a strict plan for managing the presence of mycotoxins in feed manufacturing facilities should be established and dutifully followed to avoid introducing harmful amounts of toxic compounds to livestock. Not only is this a generally good management practice, it also can have regulatory implications. Since the adoption of the Preventative Controls for Animal Food rule in 2015, all animal feed manufacturing facilities are now required to have a Food Safety Plan outlining any potential hazards that may be inherent to the facility's specific feed ingredients or manufacturing processes.

Subsequently, the facility must implement preventive controls to reduce the likelihood of such hazards contaminating animal feed. Per the Rule (FDA, 2015), mycotoxins are identified as potential chemical hazards posing a threat to animal health, and, if determined to be a legitimate risk, their presence must be monitored. Therefore, the following information may be useful in implementing preventive controls if mycotoxin contamination is a concern in your feed manufacturing facility.

The main objective of the mycotoxin management plan should be to identify points where mycotoxin contamination may occur and establish monitoring procedures at those points. Two primary areas of concern that will most likely be included in the plan are ingredient receiving and ingredient storage. The first step in reducing the threat of

mycotoxins is to eliminate the possibility that contaminated feeds are introduced into the manufacturing facility. Two strategies to accomplish this are:

- 1) write clauses stating the maximum acceptable level of mycotoxins into the purchasing agreement for each ingredient supplier, and
- 2) develop a sample strategy for incoming bulk loads of grain and test for the presence of mycotoxins, specifically, aflatoxin, fumonisin, and DON. If a load tests greater than the regulatory threshold for a particular toxin or above the limits agreed to in the purchasing contract, it should be rejected and not unloaded. Although this can be labor intensive and time consuming, it is crucial for understanding the risk that is associated with different ingredients and ingredient suppliers.

At minimum, all bulk loads should be sampled until enough consecutive negative test results have been recorded that management feels the risk is under

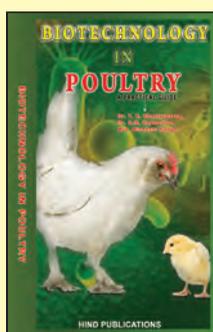
control. In addition, mycotoxin reports should be assessed to determine the risk of contamination. Frequency of sampling may then be reduced for ingredients or suppliers that have established the appropriate risk.

The key to effective sampling is to use the appropriate sampling tools and follow the proper sampling techniques to collect a sample that is representative of the entire bulk lot. This is especially important when analyzing mycotoxins as the concentration of mycotoxins throughout a single load are known to be highly variable. The second step in reducing the threat of mycotoxin contamination is to maintain optimum grain storage conditions. Molds have five basic requirements for growth: oxygen, temperature, moisture, substrate, and time. Thus, grain storage bins can essentially serve as large mold incubators if storage conditions are not monitored properly. All grain storage bins will inherently have ample oxygen and substrate for mold growth. Therefore, temperature, moisture, and time become three primary

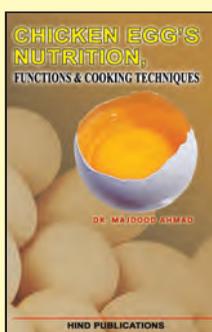
factors affecting the quality of stored grain, given the initial quality of grains prior to storage is acceptable. It is generally recommended that storage conditions not exceed 14% moisture or 20°C to control mycotoxin contamination.

### The toll of mycotoxins

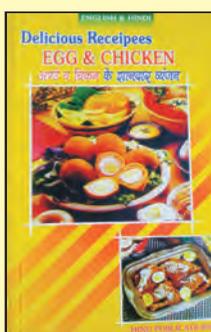
It is estimated that mycotoxins cost the livestock industry an average of \$6 million annually, according to the Council for Agricultural Science and Technology. Aside from losses associated with immediate death, the majority of poultry production losses may actually be incurred through the systemic, yet sometimes inconspicuous, reductions in growth rate, egg production, and immune system function that is experienced when mycotoxins are present in diets at concentrations below what is generally recognized as safe. Thus, it is necessary to understand the potential dangers associated with mycotoxin contamination, as well as steps that can be taken to reduce the probability of introducing mycotoxins into poultry feed. 



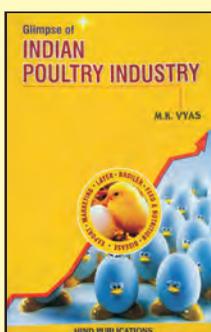
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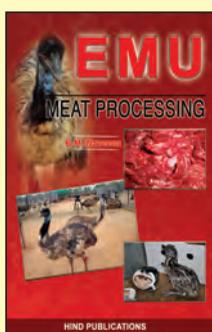
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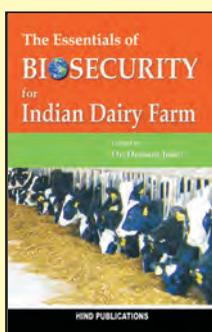
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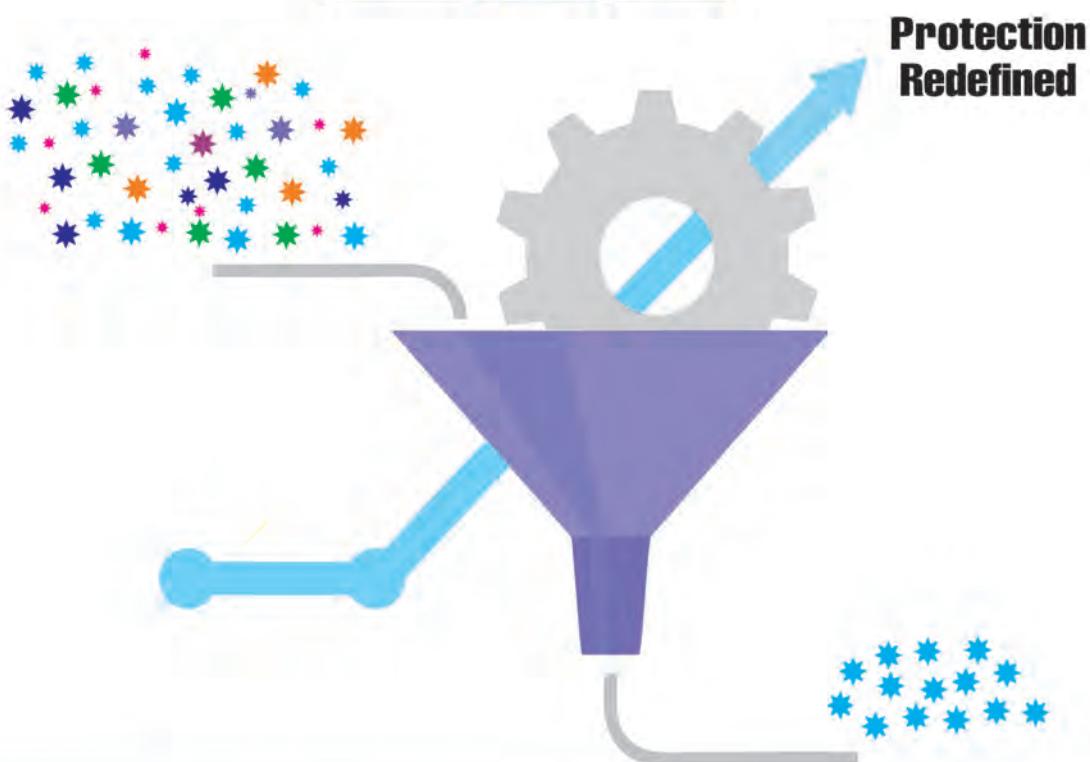
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