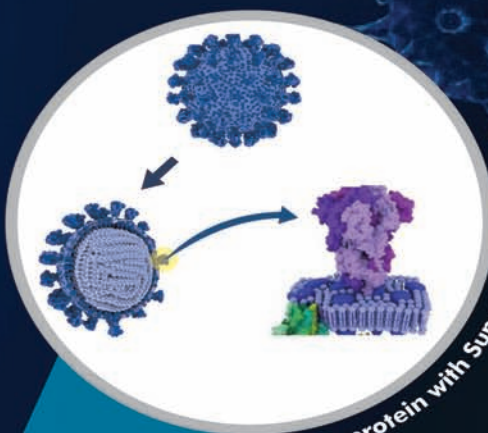




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# HIND POULTRY

Vol. XXII August 2023 No. 2



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MONTHLY POULTRY MAGAZINE

VOL. XXII No. 2 August 2023

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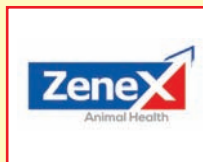
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# PFI All set to Organize its Annual General Meeting in Goa on 27-28th September

Poultry Federation of India (PFI), an apex and renowned association of Poultry Farmers, Breeders, Equipment Manufacturers, Pharmaceutical Companies and all allied Industries, is organizing its 34th Annual General Body Meeting (AGM) at Hotel Alila Diwa by Hyatt, Goa on 27 - 28 September, 2023.



## Registration:

The Online Delegate Registration is open until 31st August 2023. We are however offering an early bird discount until 31 May 2023. This year, the executive committee has approved a resolution wherein the Online Registration will remain closed on and after 01

## Sponsorship:

PFI requests all to be one of the key sponsors at PFI 34th Annual General Body Meeting. There are Six categories of sponsorships:

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1.	Super Platinum Sponsor	600000	12
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Kindly send the sponsorship confirmation by sending the cheque or draft in the name of Poultry Federation of India. Your support by giving Sponsorships in Poultry Federation of India's 34th AGM shall be highly appreciated.

September under all circumstances. However, there will be on spot registration facility subject to availability of registration. The details of registration fee are as hereunder:

S. No.	Registration Categories	Registration Fee (INR)	Date
1.	Online Registration Early Bird Discount	4000	with Valid until 31 May 2023
2.	Online Registration	5000	Valid from 01 June 2023 until 31 August 2023
3.	On Spot Registration	6000	Day of Event

The registration fee includes Lunch, High Tea, Cocktail, Networking Dinner and attending Musical Entertainment Program on 27-28 September, 2023. please visit the following link for online registration. <https://www.poultryfederation.org/register-now.aspx>

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Weeks Above 90% 37

Week Hit 90% 25

Peak Weekly Production 94%

Batch Still Continuing



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Achieved **315 HHE** in **72 weeks**  
with **100 g** feed intake/day

**Saved ₹ 101/- Per Bird**

Feed Cost/Egg  
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% Achievement 96%

Cum Feed/Egg 115 g

Weeks Above 90% 36

Week Hit 90% 26

Peak Weekly Production 94%

Batch Still Continuing

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## "2023 Aviagen North America Production Management School" Experiencing the Benefits of "Breeding Success Together"



**A**viagen® North America has successfully concluded its 2023 Production Management School, which took place May 28-June 24 in Huntsville, Ala., US. The event brought together 32 students from 20 countries — all with a common goal of advancing their expertise in managing successful breeder and broiler operations. This year's edition was particularly significant as it celebrated the 60th anniversary of the School. Since its inception in 1963 in Connecticut, the School has expanded its reach, welcoming over 2,000 students from 100+ countries. Today, it stands out for its commitment to excellence and its global impact, contributing to the development of successful poultry professionals.

### Enriching and innovative learning opportunities

The Production Management School offered a unique learning experience through an extensive curriculum that covered more than 35 topics. Students gained valuable insight into the latest best practices in poultry production, with a focus on enhancing broiler and breeder welfare, sustainability, and productivity, while increasing profitability. The

comprehensive program included seminars, workshops, and field experiences, led by passionate experts from Aviagen and guest lecturers specializing in various areas such as veterinary care, nutrition, genetic research and development, production and farm management, and hatchery and incubation.

Innovative learning tools and hands-on practice played a significant role in this year's School. One notable innovation was Aviagen's remote customer service system, which used virtual reality/augmented reality glasses. This technology enabled students to virtually tour facilities that were restricted to protect their biosecurity.

Furthermore, students had the opportunity to engage in hands-on field experience at breeder and broiler facilities across Alabama. They participated in a platinum brooding trial at the Albertville Research and Training Facility, where they practiced specialized care for newly hatched chicks. They also honed their diagnostic skills through hands-on exercises at the Elkmont Veterinary Lab. Additionally, for the first time, students explored the

Aviagen feed mill in Pikeville, Tenn., renowned as one of the world's most advanced feed processing facilities.

### Power of diversity and networking

The School's strength lies in its diverse instructors and attendees, enabling students to gain insights from the varied experiences of their international peers. As students return to their respective operations armed with newfound knowledge, their impact multiplies as they share insights with colleagues, having a positive impact on the global poultry industry. Outside the classroom, students enjoyed multiple networking events, fostering connections and lifelong friendships.

### Demonstrating excellence

Research shows that frequent testing boosts retention by reinforcing key learnings. That's why each year students take weekly tests, and at the end of the course, the highest scorers are acknowledged. Congratulations to this year's top achievers:

1<sup>st</sup> place: **Kim Kyujik**, Veterinarian for Cherrybro in Korea

2<sup>nd</sup> place: **Carlos Collado**, Production and Nutrition Manager, San Fernando S.A., Peru

3<sup>rd</sup> place: **Muhammad Yasir Sarosh**, Directory Quality Feeds, Quality Poultry Breeders, Pakistan

3<sup>rd</sup> place: **Caroline Braga**, Production Supervisor, Aviagen Brazil

"We are proud of our 2023 top achievers and the outstanding engagement and knowledge-sharing among all our students," said Wouter "Woody" Lassauw, Aviagen's Commercial Support

Manager. "Their passion and ingenuity will shape the future of our industry and contribute to its global sustainability. We extend a special thank you to Caroline Lumb, Marketing Generalist, and Taylor Davis, Digital Marketing Specialist, for their tireless dedication in making the School a resounding success."

### Charting a path to success

"Knowledge and learning play a vital role in driving the success of our industry. Our North America Production Management School is dedicated to shaping the future by embracing technology and offering exceptional practical experiences that empower students to thrive as industry professionals and leaders," remarked Marc de Beer, President of Aviagen North America. "Through fostering collaboration and embracing our 'breeding success together' philosophy, our students are forging a path towards a prosperous future."

### Through the students' lenses

Reflecting on the school experience, Ruan Germishuizen, SNR Operations Manager, Supreme Poultry, Countrybird Holdings, South Africa, expressed his gratitude for the opportunity to be part of the 60<sup>th</sup> Production Management School. "The school has exceeded my expectations, with abundant information shared in all aspects of the industry from all parts of the world, and it was eye opening to see how other countries operated and how we compared to them. The School was able to strike a balance between engaging those without prior experience, while challenging seasoned professionals."

"I appreciated the level of detail and clear understanding of management advice that will ultimately head to improved output, results and profitability. All in all, I would describe my Aviagen Production Management School experience as a beautiful, unforgettable journey of learning and friendships," added Muhammad Yasir Sarosh, Director Quality Feeds, Quality Poultry Breeders.

### About Aviagen

Since 1923, Aviagen® has been a preferred global poultry breeding company with a mission to help its customers — the world's chicken meat producers — supply sustainable, affordable and nutritious protein to their growing communities. Putting into practice its corporate value of "Breeding for Welfare and Sustainability," Aviagen implements efficiencies that make commercial chicken production environmentally and socially responsible and economically beneficial to producers, while at the same time promoting bird performance, health and welfare.

To meet varied market demands, Aviagen offers a full portfolio of breeding stock under the Arbor Acres®, Indian River® and Ross® brand names. The Rowan Range® and Specialty Males® target slower-growing and other niche market needs. Aviagen is based in Huntsville, Alabama, US., with operations across the UK, Europe, Turkey, Latin America, India, Australia, New Zealand, Africa and the US, and joint ventures in Asia. The company employs close to 8,000 people, and serves customers in 100 countries. 





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## **ILDEX Philippines Showed the Excellence of the Show with the Exciting Announcement of its Upcoming 2024 Edition!**

In response to the positive feedback received from the 2023 edition, VNU Asia Pacific, the organizers of ILDEX Philippines, together with Deltaman, the organizer of the Philippine Poultry Show, have made the final decision for the upcoming edition. We are pleased to announce that ILDEX Philippines 2024 will take place from August 28 to 30, 2024, at the SMX Convention Center, Manila. The organizers aim to build upon the success of this year's event, offering an even larger exhibition space and a more diverse range of conference sessions.

This year, the Philippine Poultry Show & ILDEX Philippine celebrate the success of the first edition with over 7,100 industry professionals from more than 40 countries. ILDEX Philippines 2023 saw an incredible turnout, highlighting the event's significance for the region's livestock and poultry sector. We were honored to host over 180 global brands from over 20

countries, showcasing the latest advancements, cutting-edge technologies, and innovative products in the industry. The trade visitors from the Asian region accounted for more than 84% of the attendees with a visitor satisfaction rate of 9.23 out of 10 which demonstrates that this trade fair has become a top quality event for the Philippines market.

In 2024, the livestock and poultry sector will also continue the adoption of technology and automation to improve productivity and efficiency. This includes the use of data-driven management systems, devices for monitoring animal health and animal production, and automated feeding and waste management systems.

To highlight the trend, the exhibition will expand the business profiles from farm to food, and the showcase will cover all visitor's interests including: animal health, pharmaceutical products,

ingredients, farm equipment, feed additives, breeding & hatching, packaging and labeling, and many more. At the next edition, we also plan to include a Meat Pro Pavilion to represent the food processing part and also other agri-technology highlights to cover the full supply chain from feed to food for the Asia region.

According to USDA's International Long-Term Projections to 2028, the region will become the world's fastest-growing importer of soybean meal—a key ingredient in animal feed—over the next decade and will overtake the EU as the largest soybean meal importer by 2022. As the region's incomes rise, meat consumption is also likely to increase. Every Southeast Asian country has different meat preferences, as reflected by their levels of consumption and production. Southeast Asia's poultry production expanded by 56 percent in the last decade, growing from 5.9 MMT to 9.2 MMT in 2018, and is



expected to reach 12.3 MMT by 2028.

### **The success of the first Philippine Poultry Show & ILDEX Philippines in 2023**

"I'm very excited about this ILDEX Philippines as it is the first time an international organizer has partnered with a local organizer to bring this significant event to our local farmers. This event provides an opportunity for them to learn about new technology and management skills for the further improvement of their businesses. Partnering with ILDEX allows us to expand our events by having more exhibitors, technology, and strategies for our local businesses to experience. Next year, we promise to make this beautiful event even more exciting and beneficial for the industry," stated Mr. Francis Uyehara, Elected President of the Philippine Egg Board Association.


Mr. Igor Palka, Managing Director of VNU Asia Pacific, said, "By organizing this edition of ILDEX in the Philippines, we have been able to expand our network in the Asia Pacific region, connecting with local buyers and producers. Partnering with the United Broiler Raisers Association and the Egg Board Association, we have managed to bring together

local expertise and networks with international exhibitors, introducing the newest technologies to the Philippine market."

Throughout the three-day exhibition, attendees had access to an array of engaging activities, including seminars, product demonstrations, networking events, and business matchmaking sessions. ILDEX Philippines 2023 proved to be a networking platform, offering opportunities to connect with industry peers, experts, and decision-makers. Our visitors showed interest in discovering new products and services from both local and overseas brands, as well as finding new business partners and distributors. The networking sessions and social events provided a relaxed atmosphere for informal discussions, fostering relationships beyond business transactions. Participants enjoyed mingling, exchanging ideas,

and expanding their professional networks. "We are always looking for innovative products to improve our company further. The exhibition helps us to identify new and useful products for our company. We also met many leading companies and had insightful discussions with them. Thank you, ILDEX Philippines, for making this incredible event happen," said Dr. Bodin Suwattana, Senior Vice President, and Dr. Surapat Chandaeng, Assistant Vice President of Bangkok Vet Drug Co., Ltd.

ILDEX Philippines 2023 received overwhelmingly positive feedback from both exhibitors and attendees. Many exhibitors reported significant business leads, collaborations, and partnerships formed during the event. Participants expressed their satisfaction with the exhibition's organization, the quality of exhibits, and the diverse range of industry professionals present. The exhibitor satisfaction rate for the show was 8.48 out of 10.

We would like to express our gratitude to our show partners, the United Broiler Raisers Association, the Egg Board Association, and Deltaman, our local partner, for making this show possible. 





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## Centre of Excellence for Animal Husbandry, Animal Husbandry Academy of India, Hessarghatta, Bengaluru Conducted National Programme for Civil Service Capacity Building

**CEAH-Bengaluru** – Animal Husbandry Academy of India is setup under Government of India, Ministry of Fisheries, Animal Husbandry & Dairying, and Department of Animal Husbandry & Dairying as a consortium of 5 organizations at Hessarghatta vide Order No. F.A-430011/3/2023-Estt(HQs), dated, 14<sup>th</sup> March, 2023. This Academy is formed as per the guidelines of DoPT for National Programme for Civil Service Capacity Building (NPCSCB) under “Mission Karmayogi” of Government of India.

CEAH-Bengaluru is spread over 642 acres distributed in four campuses at Hessarghatta. Campus – 1 consists of Central Poultry Development Organization & Training Institute (CPDO&TI), Campus – 2 consists of Central Frozen Semen Production & Training Institute (CFSPTI) and Central Cattle Breeding Farm(CCBF), Campus – 3 consists of Animal Quarantine and Certification Services(AQCS) and Campus – 4 consists of Regional Fodder Station(RFS).

CEAH Bengaluru has state of art automation units at poultry, Modern dairy sheds, ET lab, Sex-sorted semen lab, International Animal Quarantine facility, biggest fodder unit in the country with latest technology adoption for irrigation. The Academy consists of four campuses with conference halls, class rooms, officers and farmers hostels with boarding and lodging facilities.

CEAH Bengaluru Academy organized its second Comprehensive Refresher Programme (CRP-2) for Young Veterinary Professionals (batch size 16) from the Government of Goa from 19<sup>th</sup> to 23<sup>rd</sup> June, 2023. This course is planned with a 360 degree

approach for knowledge enrichment and generic issues with the following outcomes expected to be covered:

Candidates were exposed to information on Govt. institutions of State and Central of Department of Animal Husbandry & Dairying across the country. Latest innovations, govt. schemes of both state and central sector, soft skills for adoption in service delivery, successful business models, project report analysis, activity based learning including pre-training and post-training analysis. The young veterinary professionals will be motivated and trained in the modern challenges of Animal Husbandry Sector.

On 19<sup>th</sup> June, 2023, Dr. P.S. Mahesh, Joint Commissioner &







Director, CEAH inaugurated the programme. In his inaugural address, he briefed the mandates of CEAH Bengaluru the consortium of 5 organizations to aspire to be best Animal Husbandry Academy in India with state of art infrastructure facilities and a robust revenue model. Dr. Agostinho Misquita, Director, Animal Husbandry & Veterinary Services, Government of Goa addressed online. He wished all the trainee officials all the best for participating in the training programme. He stressed on gaining knowledge of latest technologies in the fields of Animal Husbandry. Later, All trainees were given a digital pre-training analysis through Google Forms by Sri. S.M. Anwar Basha with a pre-designed format to understand the training needs of officers in various subjects.

Dr. Mahesh P.S. Joint Commissioner & Director of CEAH academy made a presentation on Prospects of Indian Animal Husbandry Sector which is estimated to be double the

Automobile sector (7.5 lakh crores) contributing about 15 lakh crores to the Indian GDP. The Dairy sector is estimated to be about 8 to 10 lakh crores, poultry 2 lakh crores and rest three lakh crores is from small ruminants etc. Indian Animal Husbandry Sector is most promising with a sustained growth for rural economy, employment and nutritional security.

In the afternoon, trainees were taken to CEAH Campus-1 CPDO&TI to visit automation units in poultry, feed mill, hatchery and demo unit. They were briefed by Dr. Abhinav Choudhary and Dr. S. Balraj about requirements of Automation, Functioning of Feed Mill and Hatchery at the field. Later, Dr. S. Balraj, made a presentation on activities of CPDO&TI including the future proposed activities at CPDO&TI.

On Tuesday, 20<sup>th</sup> June, 2023 Dr. Mahesh P.S. presented on Indian Animal Husbandry Schemes with a mandate of Govt. of India towards quality services at farmers doorsteps (mobile veterinary clinics), entrepreneurs development(NLM, AHIDF) eradication of animal diseases(ASCAD) and Livestock Development (Rashtriya Gokul Mission), Breed Multiplication Farms, National Programme on Dairy Development, Accelerated



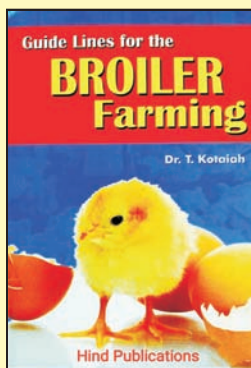
Breed Improvement Programme feed and fodder development, livestock insurance etc. Sri. S.M. Anwar Basha made a presentation on Basics of Animal Nutrition and importance of Quality Control in Livestock Feeds. Later, Dr P. Nallappa, Managing Director, Jagadish Poultry Farm, a successful entrepreneur in poultry made elaborate presentation on Economics of Broiler and Broiler Breeding Farms with unit cost and suggestions for adaptation to make poultry enterprise most profitable venture.

In the afternoon, trainees visited CEAH Campus-3 Animal Quarantine Certification Services (AQCS). Dr. Tapan Kumar Sahu, Deputy Commissioner along with Dr. Nivedita, Quarantine Inspector made presentations about requirements of export / import of livestock products through AQCS Bengaluru and provisions of Livestock Importation Act. Later they were shown all the facilities of AQCS. In the evening for the first

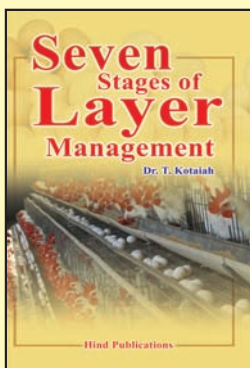




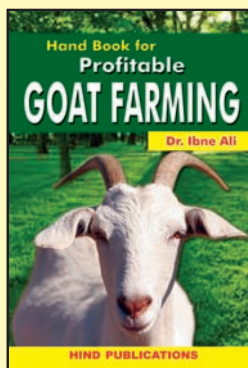
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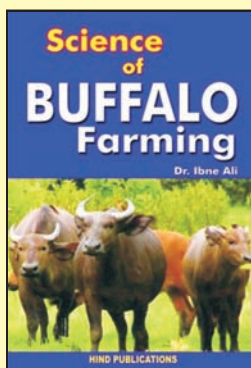
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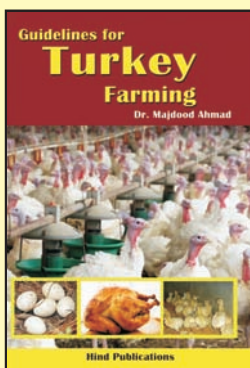
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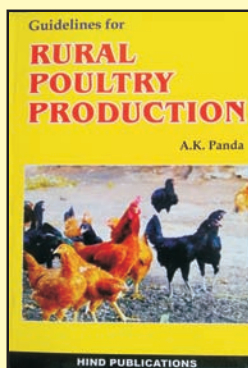
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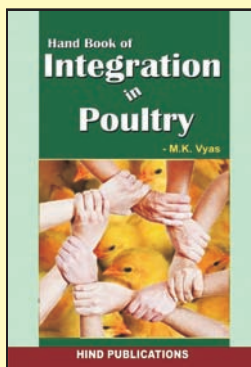
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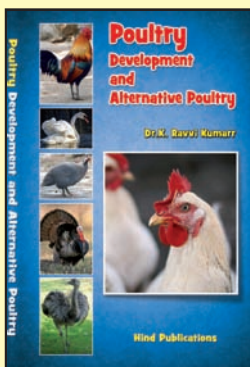
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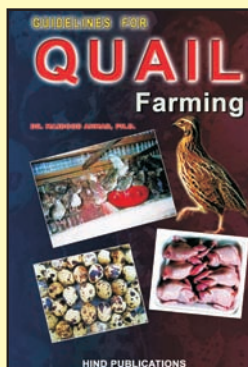
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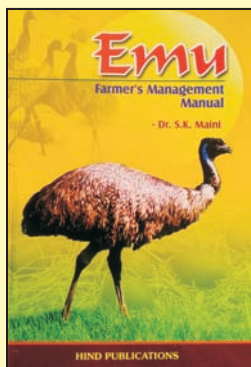
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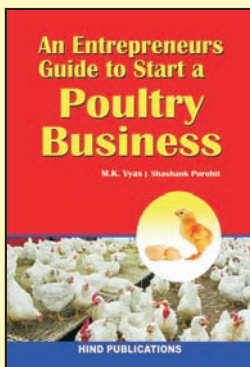
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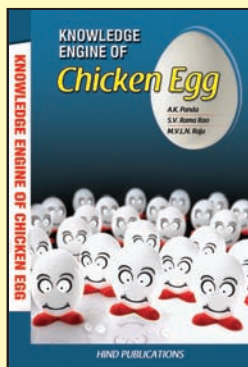
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time CEAH Academy introduced “Activity Based Learning” which was conducted by Shri. Sreerajan and Shri. Abishek from, NSB Academy Bengaluru. Trainee officers along with CEAH academy team participated with highest enthusiasm.

On 21<sup>st</sup> June, 2023, Wednesday, The trainee officials participated in International Day of Yoga programme organized at CEAH-CPDO&TI lawn in which all the officers and staff of CEAH along with Jyothi Vidyalaya Campus School teachers and students participated. Warm up exercises were taken and everyone practiced & performed different asanas.

Later, Mr. Santosh, a sheep entrepreneur presented the success story with interesting facts of Nomadic Herds of Sheep across India with very sustainable profitable sheep farming. He mentioned in his address that money saved is money made in sheep farming with greater control on inputs. The stall feeding of sheep farming has its own challenges that require higher cost, commitment and proper marketing strategy. Later this session was followed by Mr. V. Sudhindranath, Desi Cow farming entrepreneur of “Naati Hasu Goshala” with a brand name “Pashu Thai” for the products of the organization. He is maintaining more than 500 desi breeds with more than 10 breeds of desi origin. He has been very successful in producing various products under his venture namely, Panchagavya, Agnihastra, Balms, Phenyls, Health products etc., by adopting innovative interventions like chaff cutting, silage making, gobar gas production, multistoried cow sheds, solar adaptations etc.





This session was followed by Dr. Gopakumar, CEO and Managing Director of DLG farms India (USA) on successful piggery enterprise in detail with ideal 3 way crossing, breeder model, franchise model, piglet fattening model etc to make piggery one of the most successful enterprise. Dr. Mahesh P.S. guided the trainees on the topic of Communication and Presentation Skills.

In the afternoon, trainees visited CEAH Campus-4 to visit Regional Fodder Station, wherein they were exposed to fodder demo plots, fodder seeds display with a brand "Fodder Gold" followed by demonstration of Rhodes cultivation. The trainees were taken to Artificial irrigation pond which is recently developed at this centre with 100ft x 100ft x 12 ft depth holding more than 20 lakh liters of water for sprinkler irrigation. Dr. Aditya and Sri. Ashwathappa made presentations about fodder management for the trainees.

On 22<sup>nd</sup> June, 2023, the session started at 9.00 am with Prof. Dr. Vivek Patil from KVAFSU, Bengaluru dealing on Animal Husbandry Projects and analysis. In his three hours deliberation, he demonstrated salient features of Dairy Project in detail including calculation of ratios and feasibility


concerns. This was followed by Dr. Abhinav Choudhary, Livestock Officer who gave an insight of practical aspects of Sheep Rearing and management of Sheep Farm.

In the afternoon, Trainee officers visited CEAH campus-2 to visit facilities of Central Frozen Semen Production and Training Institute(CFSPTI) and Central Cattle Breeding Farm(CCBF). They appreciated the facilities of Semen Lab, ET lab, cattle sheds, milk collection etc . Dr. Bhaskar, Deputy Commissioner, Dr. Atulya M., Asst. Commissioner and Dr. Abdul Salam, Livestock Officer explained the facilities. This was followed by presentations by Dr. Arun Prasad, Joint Commissioner. CFSPTI on activities of CFSPTI.

On the last day, 23<sup>rd</sup> June, 2023, trainees visited "Naati Hasu Goshala" at Kakolu early in the morning 7.00 am to appreciate the activities at the Desi Cattle Farm. Later, Dr. Dinesh Bhosle, former Chairman, CLFMA of India conducted a brain storming session on Dairy Sector in India. He gave an account of various Mobile Applications and Youtube Channels available for Dairy Farmers. He also suggested the young vets to use the Smartphone technology to gain more knowledge by joining whatsapp groups which have both Senior and

Junior Veterinarians and share their practical knowledge and experiences in the field of Veterinary Science to help the farmers in a better way. This is followed by Dr. Vinod Bhat, Joint Commissioner, Govt. of India and Secretary Veterinary Council of India joined online for the presentation on Veterinary Council of India and issues of Veterinary profession. The last session was presented by Dr. Mahesh P.S. with a future vision of Animal Husbandry Sector and Vet as a successful entrepreneur. Mr. S.M. Anwar Basha issued trainees Post Training google forms to seek their feedback in both google forms and written form.

The CRP-2 programme concluded with a Valedictory Function in which Dr. Ravindra Hegde, Director Institute of Animal Health and Veterinary Biologicals (IAH&VB), Bangalore participated as Chief Guest. In his address he praised the efforts of CEAH team for successfully conducting such a comprehensive training programme on Animal Husbandry activities. Each trainee officer were given with Kit consisting of (Executive Bag, CEAH memento, Certificate, Group Photograph and Card Drive(pen drive) consisting of all the presentations made during the five days. The trainee officers expressed their satisfaction and they rated the programme as Excellent in both "Google forms under post-training analysis and written feedback).

Dr. B. Arun Prasad, Joint Commissioner (Admin), CEAH, acknowledged the tireless efforts of the entire Academy Team both the front end and back end consisting of logistics, hotel arrangements, outdoor team, etc for making this programme very successful. 



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# SPACE 2023

## High-level Participation & High-quality Content

This 37th edition of SPACE will be dedicated to the dynamics of animal farming and will once again be a major highlight of the new agricultural season. SPACE 2023 is preparing in a context of rising energy costs, of generational renewal, of unprecedented high prices for agricultural products, and of climate change. In such a shifting environment and in the face of the structural changes within our agricultural sector, SPACE is becoming an ever more essential event for all professionals to gather information, exchange ideas and find new synergies to continue to develop and adapt animal farming in the regions of Western France.

The international context is also evolving significantly. The war in Ukraine has had a strong impact on the agricultural policies of countries that are dependent on Ukrainian and Russian supplies. The question of food sovereignty has become crucial for many countries, and particularly for developing countries. Our companies and organisations are well equipped to position themselves on these markets. The international scope of SPACE, which welcomes more than 120 countries every year here in Rennes, is a clear demonstration of SPACE's ability to offer solutions to this global food challenge. Many delegations from all over the world



are expected to attend again this year, in particular from Europe, the Middle East and of course Western and Central Africa. The number of exhibitors registered at SPACE is always very high. On 16 May, almost 1,100 exhibitors from 36 countries, including 177 new ones (76 of which are international companies) were expected to attend the Exhibition. These companies from all over the world will share their expertise and innovations to inspire and open up new perspectives for animal farming professionals.

To accompany the dynamic of the registrations and the evolving stand requests, the layout of the stands will be reorganised this year to meet the needs of companies in terms of both surface area and sectors of activity. SPACE has the capacity to organise the activities in such a way as to make it easier for visitors to find what they are looking for and to find their way around the stands. Therefore, Hall 4 will be entirely dedicated to energy and environmental solution providers. Hall 3 will be dedicated to Research and Development, start-ups and to the Espace for the Future. In Hall 7, alongside equipment suppliers for pig farming, visitors will find livestock building suppliers who were previously located in Hall 3. The area dedicated to sheep (previously located near Gate B) will also be relocated, as this year it will be located between Hall 1 and Hall 7 for better visibility.

### ESPACE for the Future

The Espace for the Future will address the theme of Energy in a whole new layout and location in Hall 3. This new space, designed by SPACE organisers as a prospective



and informative space for all livestock farmers, will demonstrate how agriculture, although dependent on direct and indirect energy, can also be a source of solutions! Drawing on the testimonials of livestock farmers, equipment and techniques, our experts at the Chambers of Agriculture and their partners will show you that solutions do exist... and that everyone, at their own level, depending on their own system, can reduce their dependence on fossil fuels. Presentations, demonstrations, individual meetings and round tables will provide an opportunity to present the best practices in energy management, offering concrete solutions for an ever more efficient and sustainable agriculture.

### Innov SPACE

The InnovSpace competition is what makes SPACE the leading event for innovation across all the livestock sectors. Over the past 25 years, these awards have been a real quality seal for the industry. They demonstrate the extent to which our sectors are efficient, innovative and always thinking ahead. Each year, exhibitors show great interest in this label, a major commercial asset that highlights their expertise at the service of livestock farmers. 82 % of exhibitors say that SPACE is the ideal place to showcase their innovations. In 2022, 36 products, services and equipment were awarded prizes from the panel of experts. The list of the 2023 prize-winners will be published in July.

### The New tech Agri Challenge by Innov SPACE


The Tech'Agri Challenge is a new innovation competition at the crossroads of the agricultural and digital sectors for Breton students, co-organised by INNOZH, Bretagne Développement Innovation and SPACE. SPACE has responded favourably to the request from INNOZH and Bretagne Développement Innovation to add the signature "by InnovSpace" to this new operation: the Tech'Agri Challenge. This innovation competition, at the crossroads of the agricultural and digital sectors, intended for Breton students, will promote innovation and research for livestock farmers among young people in training.

### Digital Tool

Digital tools, which have gained ground since the Covid-19 pandemic, have now become an essential and complementary component of face-to-face visits.

Available throughout the year, they promote the visibility of the brands and products presented at the Exhibition, encourage exchanges with the SPACE community and help visitors to prepare their visit to the Exhibition. SPACE visitors can access the list of registered exhibitors on [space.fr](https://space.fr) now. A marketplace updated on a daily basis by the companies will provide a foretaste of the Exhibition and the equipment that will be displayed on the stands.

### 2nd Edition of Youth Forum

THE YOUTH FORUM is dedicated to giving a voice to young people involved in agricultural training and to helping attract new generations of farmers. Building on its success of 2022, and still with the aim of promoting animal farming training and jobs, the Youth Forum will be held again this year for the second time. The Youth Forum is a project that is co-constructed with the agricultural education networks (private, public and MFR). This year, two new higher education institutes will be taking part in the project: the InstitutAgro Rennes-Angers (Agro Campus) and the Ecole Supérieure des Agricultures d'Angers (ESA). 





# Successful Tools for a Holistic Approach Towards Gut Health

**Lode Nollet**

Global Product Manager Poultry Enzymes,  
Huvepharma

**N**utritional strategies to support the production of high quality, low cost and safe animal products are a must nowadays. The relationships between health, nutrition, welfare, and environment need to be considered. In poultry production, increasing feed costs are imposing pressure on the profitability of the farmer, so nutritionists seek to reduce feed costs whilst maintaining animal performance and gut health. Several strategies, with tangible tools to support this, are discussed in this article.

## Controlling Coccidiosis

Coccidiosis, caused by protozoan parasites of the genus *Eimeria*, is one of the most widespread and difficult to manage poultry diseases, resulting in considerable economic losses in the broiler industry. Insufficient or inadequate control of coccidiosis will result in gut health damage and provide a pathway for other pathogens to proliferate.

For instance, suboptimal coccidiosis control combined with a high amount of undigested protein will create an ideal situation for the proliferation of *Clostridia* spp. Birds suffering from clinical coccidiosis will show typical signs like diarrhoea, bloody droppings, increased mortality, decreased feed intake and impaired performance.

Inadequate control of coccidiosis leads to impaired growth and feed conversion ratio, without the presence of evident clinical signs. This is subclinical coccidiosis.

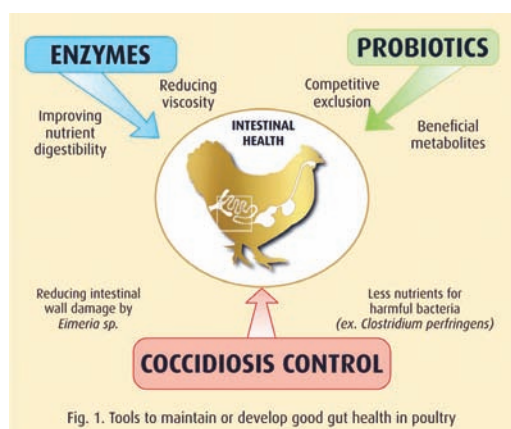
Intensive methods of production of poultry favour the reproduction of *Eimeria*. Consequently, coccidiosis is a continuing problem requiring constant attention and, in the case of broilers, a need for continuous supplementation with anticoccidial drugs or coccidiosis vaccines, in addition to in-feed anticoccidials. Coccidiosis control combined with a good monitoring programme will be the base of any gut health management programme.

## Improving Feed Digestibility

Improving digestibility of the feed can be achieved by selecting highly digestible feedstuffs. However, this will increase the feed price. The improvement of the digestibility of feed by using enzymes able to degrade Non-Starch Polysaccharides (the so-called NSPases) will not only lead to lowering the feed cost at formulation, but also exert a positive effect on the bird's gut health.

The NSPases contain xylanase or xylanase-based enzymatic complexes, and their mode of action includes the hydrolysis of soluble arabinoxylans, which minimises intestinal viscosity, preventing the overgrowth of microflora and thereby reduces gut health disorders.

Together with the efficient reduction in viscosity, NSPases will also hydrolyse insoluble arabinoxylans. This action will unlock nutrients (mainly starch and proteins) which are trapped in the cell walls of the vegetable feed ingredients (the so called 'cage effect' of insoluble fibres).



Using the correct NSPase leads to improved digestibility of starch and protein. The latter is of particular importance as high levels of undigested protein in the (last) part of the intestine is a breeding ground for protein-loving pathogens like *Clostridium* spp, causing necrotic enteritis. The breakdown of arabinoxylans by NSPase also yields arabino- oligosaccharides (AXOS) which are known to be fermented by the microflora in the lower part of the intestine to butyrate, which is a major energy source for villi regeneration allowing good gut health status.

Phytases have been shown not only to break down phytate to release phosphorus, but by doing so, to also destroy the anti-nutritional factor phytate.

This not only leads to a reduction of endogenous protein losses, but also liberates protein and amino acids which are complexed by phytate, enhancing their digestibility.

### Supporting The Microbiota

The relationship between a healthy gut and the animal's microbiota is undeniable. As part of the holistic approach, the inclusion of probiotics in the nutritional programme offers a way of

supporting gut health from a microbial perspective. The mode of action of probiotics is usually multifactorial, including (but not limited to) the production of beneficial metabolites or the direct competition with unwanted bacteria. As a result, probiotics often help to balance the present microbiota and improve its

robustness, supporting general gut health in the process. Probiotics can be incorporated into the feed or drinking water, depending on the strain and formulation used. Although there are many commercial options available, the preferred product of choice should be based on a single unique strain, capable of forming spores and with a proven and researched mode of action. Such probiotics increase the ease of use, whilst ensuring product efficacy.

Good examples are B-Act®, containing viable spores of *Bacillus licheniformis*, based on *Clostridium butyricum*. Probiotics allow producers to support their animals' gut health efficiently, setting them up for a successful production period from start to finish.

### Conclusion

Gut health management is of paramount importance to the profitability of poultry farming. The strategy behind managing optimal gut health should contain a combination of the most important control tools on the market available today: an adequate and well thought-through coccidiosis control programme, combined with an NSP enzyme and a phytase, and topped off by a well-functioning probiotic. 🇮🇳

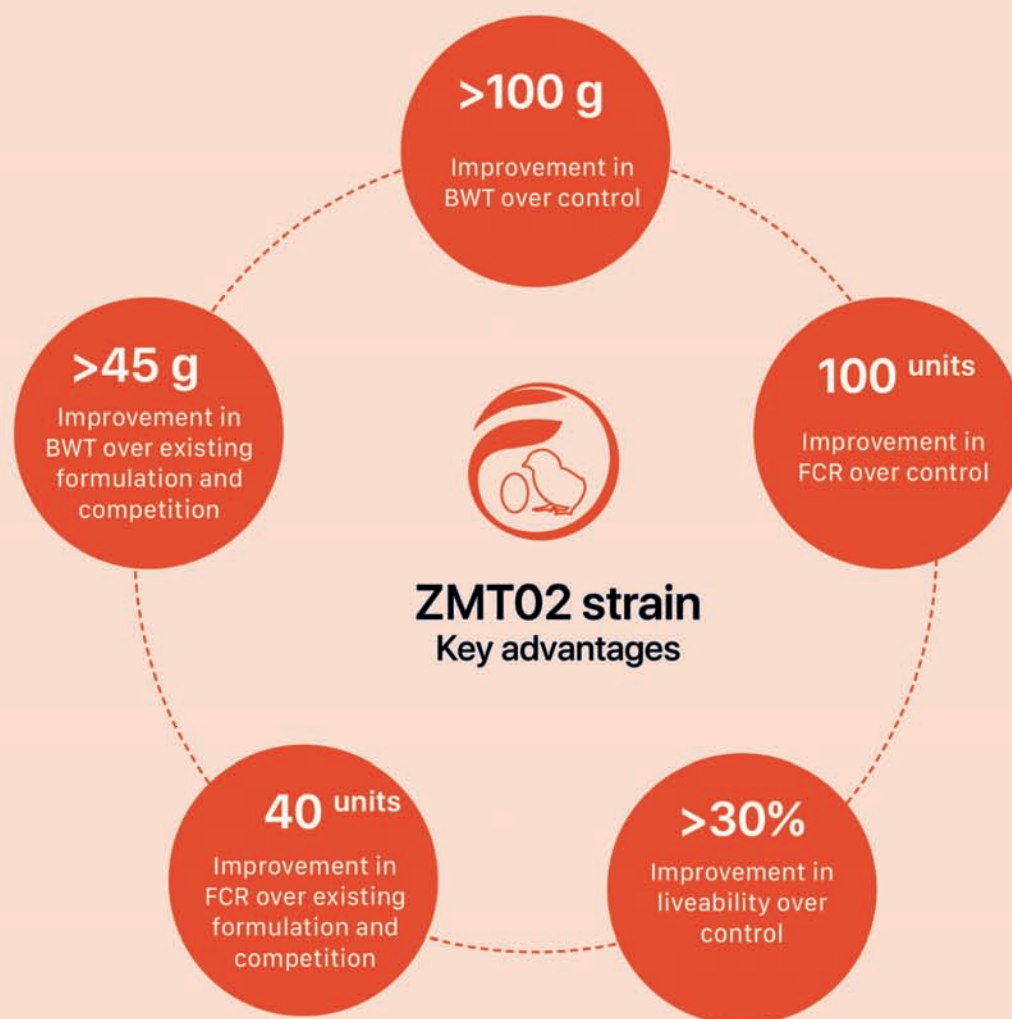
## China to Reduce Soymeal use in Animal Feed

China's agriculture ministry has issued a three-year action plan to reduce the inclusion rates of soybean meal in animal feed in an effort to reduce its reliance on soybean imports.

The new plan says soymeal inclusion in animal feed should be reduced to less than 13% by 2025, down from 14.5% in 2022, according to a Reuters report. It would "guide the feed industry to reduce the amount of soybean meal, promote the saving and consumption reduction of feed grains, and contribute to ensuring the stable and safe supply of grain and important agricultural products," said the document, published by the Ministry of Agriculture and Rural Affairs. In April 2021, China's Ministry of Agriculture and Rural Affairs published guidelines that recommended lowering the amount of corn and soybean meal in pig and poultry feed. The guidelines include recommendations for alternative ingredients, "with the goal of improving the usage of available raw materials and creating a formula that better suits China's conditions". The guidance recommends rice, cassava rice bran, barley and sorghum as alternatives to corn. Acceptable alternatives to soybean meal include rapeseed meal, cottonseed meal, peanut meal, sunflower meal, distillers dried grains, palm meal, flaxmeal, sesame meal and corn processing byproducts. It also suggests feed formulations based on the region of the country, such as reducing corn by at least 15% in pig rations in the Northeast by using rice and rice bran. In the southern region, it recommends using sorghum, cassava flour, rice bran meal and barley to replace corn in pig feed. In March, China's soybean imports rose 7.9% from the same month a year earlier as buyers in China stocked up ahead of expected strong demand. 🇮🇳



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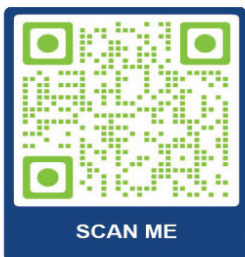
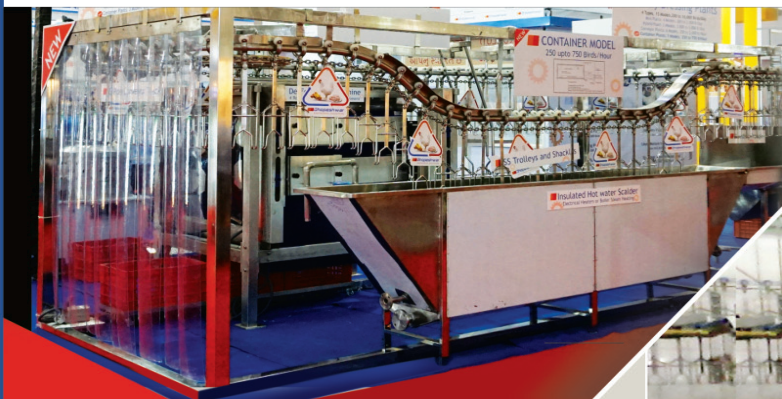
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# Mastering the Premix Technology with more than 90 years Expertise and Innovation

**By Dr. Mahesh GR**

Nutritionist, Trouw Nutrition South Asia

The demand for animal products tends to rise with people's economic condition. The ever-increasing genetic potential of modern livestock demands precision and balanced nutrition. Nutrition accounts for 60%–70% of the total cost of production and is highly essential for the performance and well-being of the animals. Farmers are constantly seeking innovative ways to optimise the cost of production. Premix plays an important role in ensuring the delivery of essential nutrients to livestock in a precise and balanced manner. Premix technology involves the precise blending of essential vitamins, minerals, amino acids, and other additives into a single, highly concentrated, and homogeneous mixture. It ensures uniform distribution of vital nutrients, thereby facilitating accurate dosage and efficient delivery within animal feed and providing a cost-effective and convenient solution to enhance animal nutrition. Trouw Nutrition, with more than 90 years of expertise in premix manufacturing technology, we have consistently delivered high-quality premixes that meet the diverse needs of the livestock, poultry, and aquaculture industries across the world, along with a steadfast commitment to innovation, research, and development.

## **Premix manufacturing:**

A premix refers to a specialised mixture of either an individual or group of essential nutrients, vitamins, minerals, and other additives that is added to animal feed to meet the specific nutritional requirements of different livestock species. Premixes are designed mainly to homogenise micronutrients and feed additives in the final feed.

The quality premix manufacturing process typically involves the following steps:

- Raw material sourcing and procurement
- Formulations
- Manufacturing
- Physical and chemical characteristics
- Packaging and transport
- Safety and quality management

## **Raw materials sourcing and procurement**

The process of premix manufacturing starts with sourcing good-quality raw material suppliers. Premixes should be free from microbial and bacterial contamination and comply with legal limits for specific undesirable substances like heavy metals and dioxins. The presence of these contaminants in premix is essentially due to their presence in raw materials. Substandard raw materials result in the production of poor-quality premixes, which compromise the safety and performance of livestock. Raw material suppliers are supposed to have good quality and feed safety systems in place, where risk assessment and management of supplied ingredients ensure that these products comply with applicable legislation and agreed specification. Manufacturers and suppliers must adhere to the HACCP method and have quality control programs like FAMI-QS, GMP+, FEMAS, QS, or other comparable programmes in place.

In addition to the above systems, the selection of raw materials should be based on the below-mentioned raw material properties.

**I. Particle size :** Particle size is the most important criteria that determines the homogeneity of premix. Theoretically, ingredients with low particle sizes have a better chance of mixing homogeneously, but they also have a greater tendency to form dusty clumps or cakes.

While coarse ingredients have less homogeneity, less dusty, and have better flowability.

**II. Moisture :** Raw materials with low moisture are preferable as high moisture ingredients promotes lumping, low flowability, promotes mould and microbial contamination.

**III. Bulk density and reactivity :** Bulk density in relation to particle size is a vital parameter to achieve homogeneity of premix. Ingredients should be less reactive and sensitive to Ph, light, temperature, and other external and internal climatic conditions.

**IV. Flowability and dustiness :** Ingredients should have good flowability and less dusty as dusty products may pose occupational hazards and can cause dust explosions.

**Formulations**

Formulation is a critical step in the process of premix production. A person who is doing premix formulations should have knowledge about animal nutritional requirements in addition to knowledge of micro ingredients and powder technology.

Formulators should consider the belowmentioned parameters to make the right blend.

- Nutritional aspects
- Ingredients characteristics
- Carriers’ choice
- Safety, quality, and handling properties

**I. Nutritional Aspects :** Formulators should have knowledge of the nutritional requirements of animals, which may be simple (vitamin and mineral premixes) or complex (base mixes) with a combination of minerals, vitamins, and other selected additives. After finalising the nutritional needs, premixes must be formulated with known-quality ingredients to meet those specific nutritional requirements, even considering the bioavailability of the ingredients.

**II. Ingredient characteristics :** Each ingredient in a premix has different physical and chemical properties (Table-1). Physical properties play a role in handling and mixing properties, while chemical properties impact the stability and reactivity of premixes.

Physical characteristics	Chemical characteristics
Particle size	Potency
Particle shape	Purity
Particle density	Ph
Flowability	Reactivity
compressibility	Stability

**Table-1 physical and chemical properties of ingredients**

**III. Carrier choice :** Carriers are inert materials with no nutritional value to the animals but play a crucial role in the process. There are two types of carriers: organic (rice hulls, maize cobs, wheat middling, and lactose) and inorganic (calcium carbonate, DCP). The ideal carrier should be chemically inert and should have particle size, shape, and densities compatible with the other active ingredients to facilitate proper mixing and homogeneity in premix. Selection of carriers is of the utmost importance for a better-quality premix; mostly combinations of carriers result in better premixes than individual carriers.

**IV. Safety, quality, and handling properties :** The formulation of premixes should be done keeping physical and health hazards in mind. Too many fine and powdery premixes have the capacity to form dust explosions, so the formulator must use high-density carriers like calcium carbonate to prevent it. Some premix ingredients, like cobalt and selenium, can pose safety hazards to people who are handling premixes and to animals if not dosed in the right quantity.

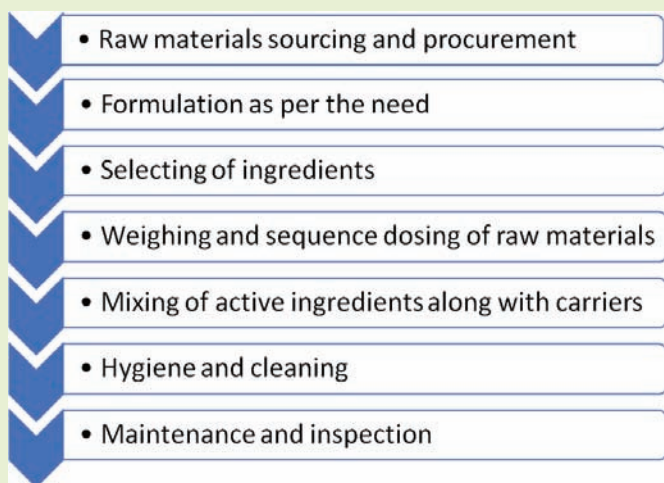
**Manufacturing process of premix**

Once the formulation is finalised, the next step is to select the appropriate ingredients to meet the desired nutrient composition. These ingredients can include vitamins, minerals, amino acids, trace minerals, enzymes, probiotics, and other additives. High-quality ingredients are chosen to ensure the nutritional integrity of the premix. The selected ingredients are carefully weighed and measured according to the formulation’s specifications. Precision is crucial to achieving accurate nutrient levels. The ingredients are then thoroughly mixed to ensure uniform distribution.

**Physical and chemical characteristics of premix**

The physical and chemical characteristics of premixes can vary depending on their composition and purpose. Premixes can vary in colour, ranging from light





**Fig-1 General premix manufacturing process**

beige to dark brown, depending on the ingredients used. The particle size of premixes is generally fine to coarse to ensure uniform mixing with other feed ingredients. Good-quality premixes should exhibit excellent homogeneity, meaning that the nutrients are uniformly distributed throughout the mixture. The efficacy of mixing can be determined by calculating the standard deviation and coefficient of variation (CV). The ideal CV should range from 5-10%; anything less than 5% is great to achieve. Premixes should have good flowability to facilitate accurate and consistent dosing during feed production. The specific chemical composition may vary depending on the targeted animal species and production goals. Combination of both vitamins and minerals will impact the stability of vitamins as trace minerals like Fe, Cu, and Zn are the most reactive. So as far as possible, it is advised not to combine both. But if we want to, it would be better to go with chelated or organic minerals, and new generation hydroxy mineral to maintain the stability of premix for a longer duration.



**Fig 2-Auto packaging machine (Source: TN facility)**

## Packaging and transport

Most of the premixes are packed and transported in small bags, like 20 or 25 kg, based on bulk density. Filling of bags with premixes is typically done on automatic (Fig -2) or semi-automatic lines where suction cups pick up empty premix bags and pre-weighed premix is filled into the bags, followed by deaeration, and closing of bags by sewing or welding. Pre-printed labels are attached to the bags as per the formulation and customization. All package types should protect workers, the general working environment, and the product inside the package throughout storage, transport, and handling of the goods (fig-3). Packaging materials should be hard and sturdy enough to withstand a certain amount of rough handling.



**Fig 3- Packaging and shrink wrapping for transport (Source: TN facility)**

## Safety and quality management

Premixes intended to feed livestock animals should be safe to use without any potential risk to animals. The safety of premixes is controlled from the reception of ingredients to the delivery of the final product. The tracking and tracing of every raw ingredient used in the premix should be evaluated and stored for future reference. Premixes should be analysed for all safety parameters and material safety data, along with hazardous symbols to be pasted along with the bags.

The premix manufacturer should compulsorily specify composition, physical and chemical specifications, packaging, storage conditions, shelf life, and instructions for use. All finished products should


be inspected prior to dispatch according to the written SOPs to ensure they meet specifications. An adequate sample from all the premixes should be taken and stored in a sample room for a specified time until expiration for future use.

Trouw Nutrition being the leader in the process of premixes follows European standards for premix manufacturing (Fig-4). Trouw Nutrition follows a very stringent process of raw material selection. Equipped with Nutrace®, Nutrec-wide feed-to-food safety programme for ensuring consistent quality, we focus on all aspects of quality like food safety, risk management, tracking, tracing, ingredient, and supplier assessment.



**Fig 5 -Trouw premix plant in Hyderabad**

#### Conclusion:

For over 90 years, Trouw Nutrition has been a driving force in the premix manufacturing industry. With their state-of-the-art facilities, extensive expertise, and unwavering commitment to quality, the company has earned a stellar reputation for delivering premium quality premixes that promote animal health and productivity. By embracing innovation and sustainability, Trouw Nutrition continues to provide the way for advancements in animal nutrition, ensuring a brighter future for both animals and farmers. 



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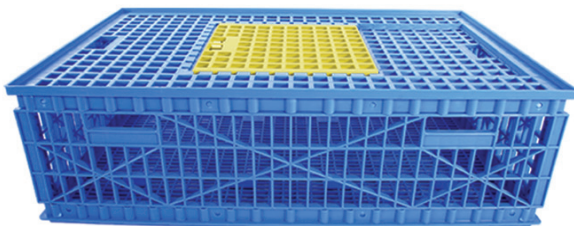
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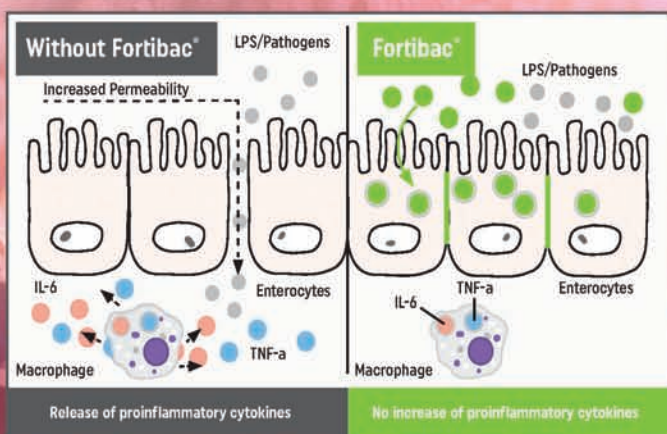


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New Highlight



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## Pre-Register Now for ILDEX Indonesia 2023 - Connect with the Global Leaders in the Livestock and Aquaculture Business this September!

**ILDEX Indonesia 2023** will be held from 20-22 September 2023 at Indonesia Convention Exhibition (ICE), Jakarta, and it is confirmed by the industry that ILDEX is one of the most important trade & conference platforms for livestock, dairy, meat processing, and aquaculture exposition in Indonesia. This year – the show records more than 250 exhibitors from 30 countries, including industry giants like PT CHAROEN POKPHAND INDONESIA Tbk. and Japfa Comfeed Indonesia, who are ready to showcase their cutting-edge products and technologies.

### Wide Range of Business Coverage

The show presents a diverse array of business profiles, including Farm Production showcasing state-of-the-art farms and sustainable agriculture; Feed Ingredient & Additives presenting innovations in animal nutrition; Consultancy & Association offering expert guidance; Animal Health focusing on well-being and disease prevention; FeedTech & CropTech unveiling cutting-edge technologies; Meat Processing demonstrating advancements in value addition;

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Breeding & Hatching highlighting genetic breakthroughs; Egg Processing & Handling showcasing efficient technologies; Waste Management addressing agricultural waste, and Dairy Farm sharing insights into modern practices and product innovations.

ILDEX Indonesia 2023 is far more than just an exhibition showcase; it presents a transformative journey that will revolutionize food production for our growing population. With top international players like Henan Lee Machinery Manufacturing Co., Ltd [China], Buhler (Changzhou) Machinery Co., Ltd [China], Agromed Austria GmbH [Australia], Petersime [Belgium], ABRA-Brazilian Renderers [Brazil], Jamesway Incubator [Canada], Breeder of Denmark [Denmark], NECTRA SAS [France], LUBING Maschinenfabrik Ludwig Bening

GMBH & CO KG [Germany], Dovoy Chemicals India Pvt Ltd. [India], Olmix Indonesia [Indonesia], Giordano Poultry Plast [Italy], Blue Aqua International Pte Ltd [Singapore], KSP Equipment Co., Ltd [Thailand], Siam Water Flame [Thailand], Hendrix Genetics [The Netherlands], Aytav Tavukculuk Ek. San. VE. TIC. LTD. STI. [Turkey], Aviagen Asia Pacific Ltd [USA], and the biggest players in Indonesia, PT CHAROEN POKPHAND INDONESIA Tbk. and Japfa Comfeed Indonesia, the event attracts global leaders in the industry. Join us to connect, form valuable partnerships, and gain insights into the latest industry trends that will shape the future of Livestock and Aquaculture.

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"ILDEX Indonesia 2023: Embracing the Future with Meat Pro and Aquatica Asia Pavilions. Prepare to be immersed in the latest advancements in meat processing and packaging at the Meat Pro Pavilion, and dive deep into the world of the aquaculture business with intensive conferences at the

Aquatica Asia Pavilion. Pre-register now and be part of this unparalleled showcase of innovation in the livestock and aquaculture industries.” - Mr. Supanat Triratphichan, Project Manager of ILDEX Indonesia

### Meat Pro Pavilion

Meat Pro Pavilion is a new idea from Meat Pro Asia, the trade show in Bangkok. After we conducted research and found that meat processing and packaging are crucial factors for meat production, and can be further developed by using high technology and innovation, we are happy to present a processing machinery demonstration on the machine stage. Come to enjoy some meat with our experts during the show.

### Aquatica Asia Conference

Aquatica Asia will be a

strategic step towards creating a dedicated business platform to improve the production of fisheries within the aquaculture industry. In past years, organizers have worked to include the aquaculture segment in ILDEX Indonesia; however, the new event will help further highlight the industry for the existing show and industry professionals. Aquaculture is represented at the conference under the topic “Swimming Through Aquaculture Diseases: Challenges and Solutions with Emphasis on EMS, EHP, IMNV, and WFS” on Thu. 21 September at ILDEX Conference 3 (in hall) at the Aquatica Conference room.

### Horti Agri Next: The Newest Highlight for Palm Sugar Producers


HAN Select INDONESIA is an international conference for the

horticulture and agriculture industries, enabling intensive business connections and offering extensive educational and informative conference content, based on the market’s current needs and requests. HAN Select Indonesia will be held on Thu 21 September at Garuda Main Hall 2, ICE, with a full-day conference on the topic, “Maximizing the Marketing and Production of Process Palm Sugar in Indonesia,”

Don’t miss the chance to be at the forefront of innovation, knowledge, and collaboration. Register now and join us at ILDEX Indonesia 2023 to witness the future of THE livestock-agriculture unfold before your eyes. Don’t lose your business connections and find some more at ILDEX Indonesia 2023. Register now at [www.ildex-indonesia.com](http://www.ildex-indonesia.com) 

## Vet Varsity collaborates with Agricultural Skill Council of India for skill-based courses

A meeting was convened between the Administration of Guru Angad Dev Veterinary & Animal Sciences University under the leadership of Dr. Inderjeet Singh, Vice-Chancellor and Dr. Satender Singh Arya, Chief Executive Officer of Agricultural Skill Council of India (ASCI), regarding the development of livestock, poultry and fisheries-based skill ecosystem in the Vet Varsity. Dr. Arya made a comprehensive presentation depicting the skill-based infrastructure, councils, policies, courses and organizations working under the Ministry of Skill Development and Entrepreneurship, Government of India in general and ASCI in particular. He highlighted the importance of skills in the coming years and focused that the academic institutions must align with ASCI for starting up new courses based on the skill-set required for upcoming years. He emphasized that joint certification will aid in enhancing the market value of a trainee and equip him for better employment

opportunities. Dr. Inderjeet Singh revealed about the various diploma courses, short courses, certificate courses and advanced training courses of the University. He stated that new courses are also being developed by various colleges of the University keeping in view the needs of the society. The future collaboration of ASCI and Vet Varsity for development of vocational and skill-based courses will help students, farmers and other stakeholders in the farming sector for gaining contemporary skills and enhancing their employability. Dr. P.S. Brar, Director of Extension Education, highlighted various offline and online courses developed by the University for skilling various stakeholders engaged in livestock, poultry and fisheries sectors. He also emphasized on the previous association of the University with ASCI regarding skill-based training. The various issues related to the previous ASCI training were also discussed in detail. Dr. P.S. Brar extended the vote of thanks. 



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# Namakkal to Take An Egg-cellent Step Towards Poultry Automation



In recent years, the poultry industry has witnessed a remarkable transformation with the advent of automation technologies. Traditional manual labour and outdated practices are being replaced by sophisticated automated systems that offer increased efficiency, improved productivity, and enhanced animal welfare. This article explores the significance of poultry automation and its profound impact on the industry.

Namakkal district in Tamil Nadu is perhaps one of the country's top egg and poultry producers if not in South East Asia as a whole. It has long been hailed as the "Egg Capital" of the country.

According to the Namakkal Poultry Farmers' Association data, egg production in the district has witnessed a significant decline of over 30% in the past three years. In 2020, Namakkal produced approximately 3.5 billion eggs, a stark drop from the previous years. Water scarcity, climatic conditions & unhygienic environmentssuch as manure mismanagement and the ever-growing wingproblem of flies this has directly impacted the health and productivity of the hens, leading to reduced egg-laying capacity and an increase in mortality ratesup to 5% to 10 %. This is because most of



poultry farms are still struggling with conventional methods.

Understanding the need for an hour, the recently held seminar on 23<sup>rd</sup> June 2023, initiated by Gartech EquipmentsPvtLtdon the revolution in Poultry Automation & new techniques in the poultry industry with the eminent speaker Dr D Chandrasekaran renowned animal nutrition who is also Professor and Head ofthe Department of Animal Nutrition, Veterinary College and Research Institute &Mr Vishal Huddar General Manager at Gartech EquipmentsPvtLtd explains the importance of the Layer Housing system in the current context.

## The Pointers include:

Enhanced Efficiency and Productivity: Automation has revolutionized poultry farming by streamlining various processes, leading to improved efficiency and increased productivity. From automated feeding and watering

systems to robotic egg collection, these technologies have significantly reduced manual labour requirements. By automating repetitive tasks, such as cleaning and disinfection, farmers can save valuable time and allocate resources more efficiently, allowing them to focus on other critical aspects of poultry management.

Precision Monitoring and Data Analytics: Automation systems in poultry farms are equipped with sensors and monitoring devices that provide real-time data on environmental conditions, feed consumption, water quality, and animal health. This level of precision monitoring enables farmers to closely track and analyze critical parameters, identify potential issues early on, and implement corrective measures promptly. By leveraging data analytics, farmers can make informed decisions, optimize resource allocation, and enhance overall flock management.

Improved Animal Welfare: Automation technologies have profoundly impacted animal welfare in the poultry industry. Advanced systems ensure consistent access to feed and water, reducing stress on the birds. Automated climate control systems maintain optimal temperature and humidity levels, creating a comfortable environment



labour and optimize operational costs in the long run.

Although there may be initial capital investments, the long-term benefits of increased efficiency and reduced labour costs

outweigh the initial expenses.

that promotes healthy growth and reduces disease susceptibility. Additionally, automated lighting systems mimic natural daylight cycles, enhancing bird behaviour and minimizing stress-related issues.

**Bio-security and Disease Control:** Poultry farms face significant challenges related to bio-security and disease control. Automation plays a crucial role in mitigating these risks. Automated systems minimize human contact with birds, reducing the likelihood of disease transmission. Controlled access points, footbaths, and disinfection systems help prevent the entry and spread of pathogens. Furthermore, automated vaccination systems ensure the accurate and timely administration of vaccines, protecting flocks from potential outbreaks.

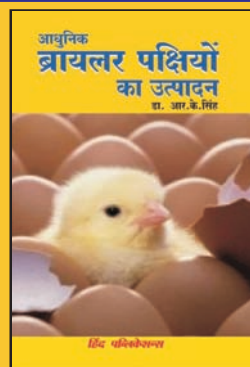
**Labour Shortage and Cost Efficiency:** Automation in the poultry industry has become a necessity due to labour shortages and rising labour costs. The industry faces challenges in attracting and retaining skilled labour, making automation an appealing solution. By investing in automated technologies, poultry farmers can reduce their dependence on manual

**Environmental Sustainability:** Poultry automation also contributes to environmental sustainability. Advanced systems help optimize resource usages, such as water and energy, by monitoring and controlling consumption. Automated waste management systems efficiently handle manure and other by-products, minimizing environmental pollution. By reducing resource wastage and adopting sustainable practices, the poultry industry can minimize its ecological footprint and contribute to a greener future.

The incorporation of automation technologies in the poultry industry has ushered in a new era of efficiency, productivity, and animal welfare. From precise monitoring and data analytics to improved bio-security and cost efficiency, automation has become an essential tool for poultry farmers. As the industry continues to evolve, embracing automation will be the key to staying competitive, meeting consumer demands, and ensuring sustainable growth. By embracing automation, the poultry industry can achieve higher productivity, enhance animal welfare, and contribute to a more sustainable and efficient food production system.



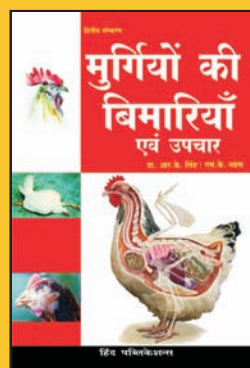
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The W-80 is taking the India market by storm, with more and more producers adopting the breed each month. Historically, Hy-Line found the Indian market to be a difficult one to penetrate due to the country's unique requirements, making it difficult to adapt the company's existing products to the local conditions. Heat stress can present a formidable obstacle at times of the year when temperatures are 50°C. In addition, competing against a local breed that had been the dominant layer in the market for years with unique character traits that had adapted to the market and vice versa proved difficult. The local breed has a

very small egg weight profile with a short production cycle, which is quite different from most international markets. Hy-Line white egg product specifications were not ideal and required significant management requirements by local farmers to adapt the bird to these local realities.

The Indian market has great potential for expansion of egg production and consumption, as the country is now tied for most populous country in the world with 1.4 billion inhabitants. Egg consumption in India is very low relative to other countries around the world; however, due to the sheer size of the population, India is now considered to be close or just ahead of the USA in egg production, competing for the #2 world position. The Hy-Line W-80 is the fastest growing breed in India, demonstrating longer production cycles, more hen-housed eggs, superior livability, more resistant shells, and better feed conversion than both local and international offerings in the market. 5 July 2023 In head-to-head trials, the W-80 demonstrated the best profitability against the two leading competitor strains available in the market, showing a 140 Indian Rupee (USD\$1.70) advantage per hen-housed to 72 weeks due to superior egg numbers and feed conversion.



## The Robust W-80 Increases Share in India

The India market requires a bird that tolerates and overcomes the obstacles of extreme heat, as regions of the country experience temperatures of 40 to even 50°C during the summer, inducing heat stress on the layers; very low dense feed rations offered to the birds; and the market is accustomed to very small egg weights in the 50 g range. To address the unique nature of the India market, Hy-Line elected to begin a breeding program in-country to customize the W-80 to the market through a local breeding program. Three years ago, Hy-Line placed W-80 lines on the Hy-Line India grandparent farm in order to select the birds which perform

best in India in terms of egg weight (small), strong shells, early onset of lay, high peaks and good heat tolerance. Today, the Hy-Line W-80 is the fastest growing breed in the market, demonstrating longer production cycles, more hen-housed eggs, superior livability, more resistant shells, and better feed conversion than the other local and international offerings in the market.

Hy-Line supplies parent stock to Srinivasa who distribute chicks to egg producers throughout India. In head-to-head trials, the W-80 demonstrated the best profitability against the two leading competitor strains available in the market showing a 140 Indian Rupee (US\$1.70) advantage per hen-housed through a complete cycle due to superior egg numbers and feed conversion. The India market is on the verge of becoming the fastest growing day-old chick and egg production market in the world, should egg consumption trend upwards towards international levels. The Hy-Line W-80 meets the demands of the India egg producer for a highly productive, robust white-egg layer which provides the opportunity for maximum profitability. Hy-Line developed the current W-80 in the market to conform to the local conditions. 6 July 2023 + \$1.70 per hen housed! 🇮🇳

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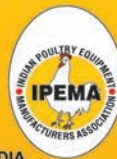
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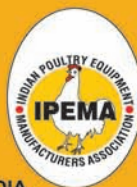
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## Mercury Soaring - Farmers hit as Chicken & Egg Prices Drop

Production declines by 20-25% Chick mortality rate up



**L**ow prices and high mortality of chicks due to high temperature has become a matter of concern for poultry farmers. The mortality rate has increased by 15-20 per cent which is a cause for concern as it's leading to heavy losses. Besides, the production of eggs and growth of chicken has dropped by 20-25 per cent.

### Blow to hatchery owners


- Each broiler chick which costs around Rs 22-25 is being sold at much lesser price.
- Single table egg costs at Rs 5.5-6, but it is being sold at Rs 4.5 or less.
- Several hatcheries have closed and some are on the verge of closing as they continue to go in loss

With the auspicious month of 'sawan' around the corner, the demand for chicken has dropped and farmers fear further losses. The consumption of chicken is very less during the month, while the production is high. "The average production cost of each broiler chick is Rs 20-25, but it is being sold at Rs 4-5 per chick. The input cost is increasing day by day, leading to loss to hatchery owners".

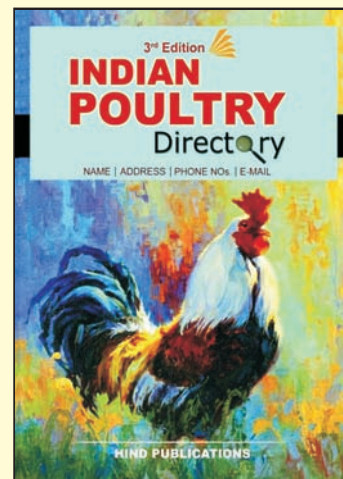
### Poultry industry stares at heavy losses

Several farmers have closed their units due to heavy losses. Eggs can be added in mid-day meals to ensure a regular demand. Maize and soya should be provided to farmers at subsidised rates for the survival of the industry said Surinder Bhutani, secy, Central Haryana poultry farmers association.

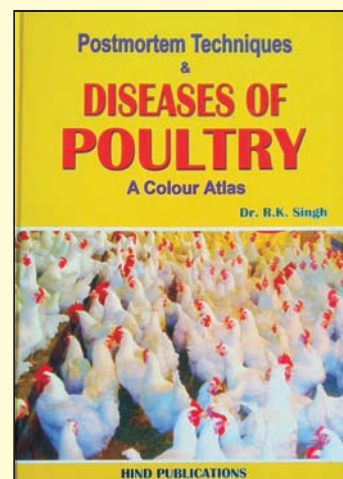
Another poultry farmer, said cost to rear a chick or a bird has also increased due to rise in cost of maize and soya, the two main poultry feed. Maize is being procured at Rs 2,000 per quintal and soya at Rs 4,300-4,500 per quintal. Normally, 3 to 3.5 kg feed helps the chick to grow into a 2 kg bird in 35-40 days. At present, a bird is being sold at Rs 75-80 per kg, while an average cost is between Rs 85 and 90 per kg. Due to the hot climatic conditions, the demand for chicken has come down and by next month, it will go down further as in month of 'sawan', several states ban sale of chicken.

Surinder Bhutani, Secretary, Central Haryana Poultry Farmers Association, and chairman of National Egg Coordination Committee, Delhi zone, said the poultry industry produces around 3.5 crore eggs and 150 ton chicken daily. 

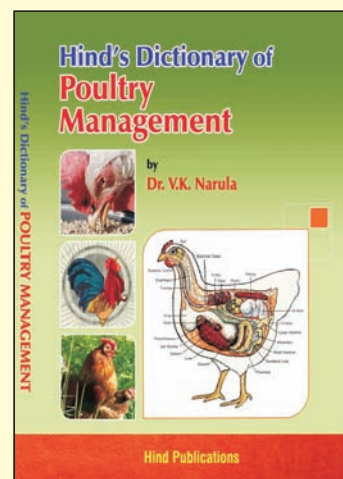
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# Securing a Sustainable Future: 7 Egg Industry Commitments to the UN SDGs



**‘Sustainability’**- a hot topic in the agricultural sector – continues to influence and shape the egg industry and beyond and is set to play a critical role in future practices of production. Sustainability encompasses environmental, economic, and social factors and is defined by the United Nations (UN) as “meeting the needs of the present without compromising the ability of future generations to meet their own needs”

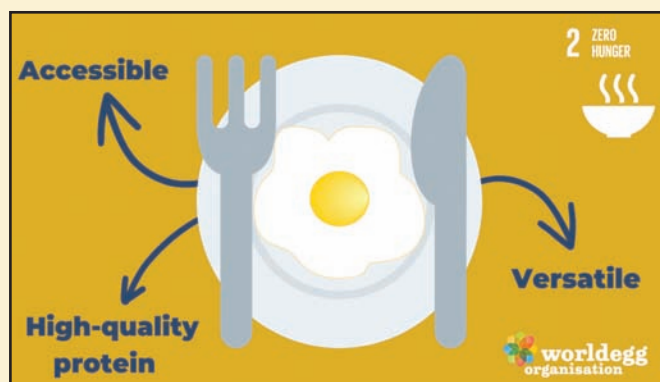


In 2015, 193 world leaders committed to the UN’s 17 Sustainable Development Goals (SDGs). These goals represent a shared vision to eradicate poverty and social inequality and tackle climate change by 2030. Of the 17 goals, the IEC’s Global Initiative for Sustainable Eggs (GISE) has identified 7 primary objectives where the global egg industry is already making an impact.

## Goal Two: Zero Hunger

In 2020, the UN estimated that over 30% of the world’s population is moderately or severely food insecure, and 149.3 million children under the age of 5 are stunted. SDG 2 aims to end hunger and malnutrition in adults and children by 2030 by increasing access to safe, nutritious food, and eggs can be part of the solution.

Eggs are recognised as a high-quality protein and are both accessible and versatile. They contain the majority of vitamins, minerals and antioxidants required



by the body and have been proven to be associated with better growth, cognitive performance and motor development.

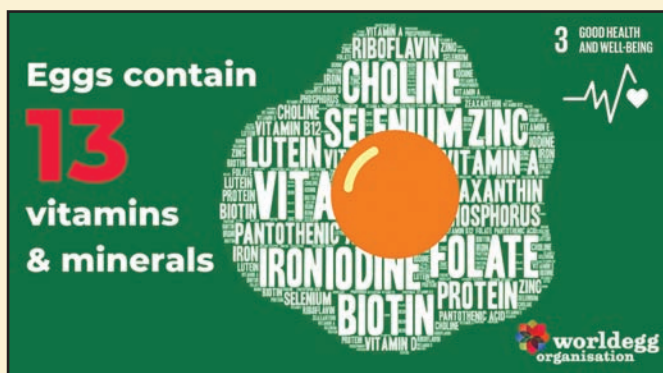
A recent study into the effect of eggs on child nutrition and development in Ecuador found that eggs can significantly increase growth in young children and reduce the prevalence of stunting by 47%.

The role eggs can play in combatting hunger is acknowledged by egg businesses globally, and many are making an active effort to ensure eggs can be supplied to those in nutritional need. For example, the International Egg Foundation (IEF) deliver a range of programmes in low-and middle-income countries, such as Mozambique and Uganda, where through the provision of resources and training, communities are empowered to sustainably produce eggs, increasing their access to high-quality protein.

## Goal 3: Good Health and Well-being

Ensuring healthy lives and promoting well-being at all ages is the focus of SDG 3. Due to their nutrient density and bioavailability, eggs have the capacity to directly improve the health outcomes of both adults and children around the world.

Eggs are a high-quality source of protein and contain 13 vitamins and minerals. This includes



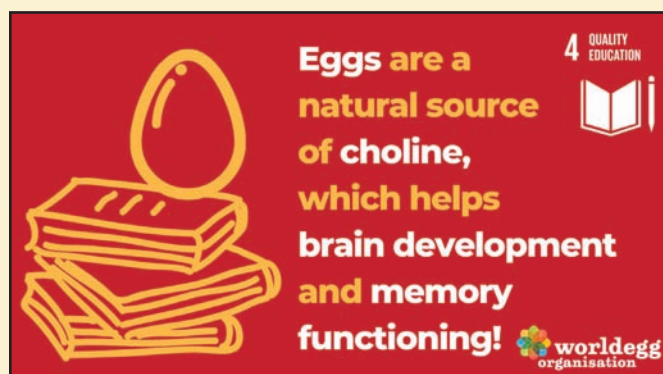
commonly deficient micronutrients such as vitamin D, for maintaining healthy bone and muscle structure, and vitamin B12, for reducing fatigue. Egg nutrition is also evidenced in multiple scientific studies to benefit eye health, cognitive development, immune system function, and foetal development. You can discover more about the nutritional benefits of eggs on our ‘Cracking Egg Nutrition’ page.

#### Goal 4: Quality Education

Quality education for all is essential for ensuring that people worldwide gain the skills and knowledge necessary to stay healthy, get jobs, and foster livelihoods. Eggs make a great addition to the diets of students of all ages – they contain choline which supports brain development and concentration.

The egg industry is dedicated to increasing awareness of the value eggs can provide in terms of nutrition, environment, and livelihoods.

For example, in Colombia, the National Federation of Poultry Producers of Colombia (Fenavi), run ‘The Golden Line of Nutrition Counselling for the Elderly’ – a telephone service that provides free nutritional education about healthy diets and the role of eggs to older generations, with the support of the Colombian Association of Clinical Nutrition. Advice is provided by health professionals and personalised to each individual.



Additionally, the American Egg Board provide a range of free resources on their website that educate students, from kindergarten through to high school, about the many benefits of eggs, with eggs incorporated into different subject areas such as maths and science.

Organisations like the International Egg Foundation also invest in educational programmes such as ‘Global Egg Schools’ – which provides rural people across Africa with the skills needed to become successful egg farmers. These programmes have encouraged employment, economic growth and improved nutritional health.

#### Goal 5: Decent Work and Economic Growth

SDG 5 seeks to promote inclusive and sustainable economic growth, employment, and decent work for all, and the egg industry can play a positive role in this.

Egg production is already a significant source of income for rural populations around the world, with over 4 million people employed by the egg sector globally.



Women make up a significant proportion of farmers (especially in low- and middle-income countries), and there is an active industry-wide effort to increase this inclusivity.

For example, Egg Farmers of Canada (EFC) run a ‘Women in the Egg Industry Program’ to inspire the next generation of female leaders in the Canadian egg industry. Delegates engage in educational opportunities, networking, and industry events, build connections and share experiences. Currently, 1/3 of Canadian Farm operators are women.

To unlock the full potential of young egg industry professionals and encourage active engagement of younger generations in the sector, the IEC run the ‘Young Egg Leaders (YEL) Programme’. Participants are



provided with mentoring from senior egg industry figures and partner organisations through presentations, leadership seminars, roundtable discussions and unique networking opportunities.

Another key aim of SDG 8 is to eradicate forced labour, modern slavery, human trafficking, and child labour. In 2018, the WEO adopted the Consumer Goods Forum's resolution on forced labour – this commitment made the egg industry the first global commodity group to take steps to promote human rights and decent working conditions.

### Goal 6: Responsible Consumption and Production

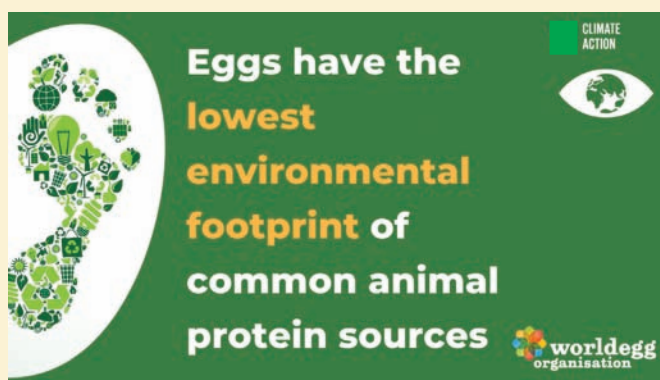
The focus of SDG 6 is on sustaining the livelihoods of current and future generations by ensuring responsible consumption and production patterns. Many critical global challenges, such as climate change, biodiversity loss, and pollution, can be attributed to damaging and unsustainable consumption and production, making it essential to take action. The egg industry is committed to producing nutritious foods in environmentally sound and responsible ways, and many egg businesses worldwide have already made a considerable effort towards this goal. For example, 10 of the country's 12 largest egg producers in Australia have already implemented some form of solar energy on their farms. Additionally, in Canada, net zero barns are in operation, where the energy used by the barn is equal to the amount of renewable solar energy created on-site.

Egg production can also be circular, with waste products often recycled back into the system to produce further outputs. For example, manure can be used to fertilise the crops that are subsequently used to feed layers – this reduces the need for external inputs and additional energy use. Eggs are also recognised by the World Resource Institute as a low-impact protein source – hens efficiently convert feed into protein and require a relatively small land base to do so, reducing their environmental impact and effect on biodiversity.

### Goal 7: Climate Action

The global temperature currently stands at 1.1 degrees above pre-industrial levels and is continuing to rise, bringing with it many climate-induced impacts globally.

SDG 7 aims to take urgent global action to combat climate change and limit warming to 1.5 degrees above




pre-industrial levels, in line with the Paris Agreement – to achieve this, greenhouse gas (GHG) emissions need to decline by 43% globally by 2030 and reach net zero by 2050. A key way of cutting emissions is by reducing resource extraction and increasing efficiencies; many egg businesses have already made progress towards this goal.

For example, environmental efficiencies in the US egg industry, such as advancements in hen housing systems, feed efficiencies, and manure management, have reduced the industry's environmental footprint by 65% over a 50 year period and GHG emissions by 71% (1960-2010). Additionally, a study into the Canadian egg industry revealed a 41% reduction in energy usage between 1962 and 2012 and a 72% reduction in GHG emissions, which can be attributed mainly to investments in renewables and the use of more energy-efficient LED lighting.

### Goal 8: Partnership for the goals

SDG 8 is focused on ensuring collaborative global action of low-, middle-, and high-income countries to achieve sustainable development goals. It calls for partnerships between governments, the private sector, and civil society.

As a global representative of the egg industry, the IEC plays a vital role in bringing together countries and organisations to achieve these SDGs. The organisation continues to develop constructive relationships with the World Organisation for Animal Health (WOAH), the Consumer Goods Forum (CGF) and major egg associations worldwide, as well as sustaining communication with the World Health Organisation (WHO), the United Nations (UN) and the UN Food and Agriculture Organisation (FAO) to address a range of sustainability issues. 

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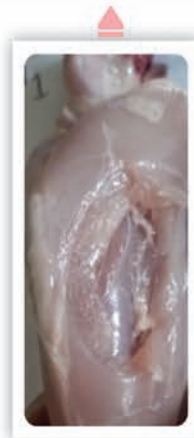


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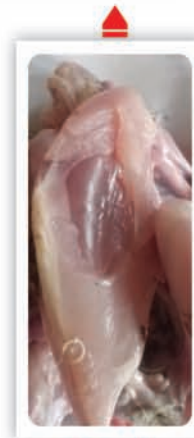
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