

हिंद पोल्ट्री

HIND POULTRY

Vol. XXI October 2022 No. 4



Pg. 17 **Kemin Interview**



Novus Knowledge Forum

Pg. 09



**35th Edition of
SPACE 2022
Concludes at
Rennes-France**

Pg. 39

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**IPJA Technical
Seminar on Poultry
at Raipur**

Pg. 35



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"INNOV SPACE"

A Dream Destination of Innovators in Poultry & Animal Industry

M.K. Vyas - Managing Partner -
Hind Poultry & Secretary - IPJA

SPACE is considered one of the largest expos on Poultry & Livestock on the globe and it has come back stronger in its recent 35th edition. Hind Poultry also made its presence felt when M.K. Vyas along with Mr. Shashank witnessed this great show with a stream of visitors from all across the globe and a large number of new Exhibitors who the firsttime showcased their products at this SPACE Exhibition. On 13th, InnoVe SPACE was organized with full of enthusiasm. For the past 26 years, the InnoV'Space label is an unmissable opportunity to publicise and promote your novelties. SPACE is considered a benchmark exhibition in innovation. According to the data, 80% of exhibitors say SPACE is the ideal place to showcase their innovations. 83% of visitors discovered techniques, products or equipment that they didn't know about previously. A jury of experts, independent of the SPACE organisation, examined with utmost neutrality and confidentiality the new products proposed by the exhibitors. It helped them to select the products, equipment or services which presented a significant innovation on the day 1 of the expo. Innovations in the sector, rewarded with the InnoV'Space label (36 winners this year), also highlighted the continuous progress achieved by the world of agriculture. The winners offered visitors new solutions for animal



welfare, protecting the environment, health and safety and improving farmers' working conditions. One of the biggest new features of this year's event was the first Youth Forum, a space for young people organised in collaboration with agricultural teaching networks and opened by the Minister of Agriculture and Food Sovereignty, Marc Fesneau, at the start of the Expo. This new space enabled young

people to voice their visions for their future jobs. They could also express their motivations and questions to Loïg Chesnais-Girard, President of the Brittany Region, who paid very close attention to their points of view. SPACE is also unique for its capacity to host around 100 conferences each year, allowing all stakeholders in the agricultural sector to learn about and discuss topical issues such as new technologies, solutions for reducing climate impact, establishing and selling farms, protein self-sufficiency, research into new fodder crops, CAP issues, etc. With great effort the poultry industry managed to get past most of the disruptions the Covid-19 pandemic threw at us. The agricultural sector never stopped working and has demonstrated the importance of farming when it comes to feeding people. Food sovereignty is now a key issue in agricultural and economic circles. It will not be wrong to say that INNOV SPACE is a dream destination of innovators at SPACE Expo. 🇮🇳





MONTHLY POULTRY MAGAZINE

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CONTENTS



HIND POULTRY OCTOBER 2022



03



33



09



35



39


PLUS

"INNOV SPACE"	03	An Effective Strategy to Combat AMR.....	27
35th Edition of SPACE 2022	06	VNU Asia Pacific join forces	33
Novus Knowledge Forum brings Gut Health	09	SPACE took place from 13 to 15 September	39
Criteria for Selecting a Fast Phytase	13	Trouw talks about the Challenges	43
The Increase in Demand for Animal Protein.....	17	Great Atmosphere at the Heart of Victam Asia	45

Poultry Industry of Chhattisgarh Gathers to Witness IPJA Technical Seminar on Poultry at Raipur..... 35



Mr. Marc Fesneau, Agriculture Minister, France inaugurated this 35th SPACE Exhibition- once again, the gathering place for all the businesses involved in animal's productions to look for the future. Mr. Fesneau in his inaugural speech said that Live your Dreams and especially live your farming dreams. It's an industry with the future because it has meaning. It feeds people and at the same time it is a basis of solutions to many of the climate issues facing us.. The 35th Edition of SPACE 2022 Poultry & Livestock Exhibition was a year of International Reunion as it had witnessed a good number of international visitors around the Globe. A remarkable 25 "Top Buyers" had come from Saudi Arabia, Turkey, Chile, Colombia, Nigeria, Czech Republic, Morocco and India to consolidate investment projects. The "Top Buyer" program began under the auspices of the Ministry of Economy and Finance. A highly specific program of visits and meetings had been organised with certain Exhibitors throughout the three days of the show. Mr. Marcel DENIEUL, President and Chairman, SPACE said that Exhibitors at SPACE 2022 unanimously praised the quality of contacts they had with visitors during the three-day event. This professionalism, in a globalised world, clearly reflected the constructive and fluid tone of this year's expo. This year's SPACE 2022 expo brought together 1,400 exhibitors, of which 185 were new and 318 exhibitors were from 37 countries. More than 1,00,000 visitors, including 15,000 international visitors from 120 countries, including large delegations from Africa, Europe and Asia visited this expo. Poultry, Dairy and Aqua farmers working in all types of animal production were able to enjoy the Expo. According to Ms. Ane Marie QUEMENER, Commissaire Generale / Exhibition Manager and Director of SPACE, over 35 years SPACE has become an essential event for all. Created by the leaders of the agricultural organizations, According to Amandine LEROUX, International Development, Exhibitors have access to the International Club where they meet and interact with foreign delegates, with the help of free interpreters and also seek advice from export development agencies (Adepta, Bretagne Commerce International, Enterprise

Europe Ouest). The SPACE was again a springboard for employment and international trade thanks to the job vacancies at the job-dating events organized by APECITA, and more than 300 Business to Business meetings organized by Enterprise Europe Network between exhibitors and international investors said Ms. Chloe LETELLIER, Communication Press, SPACE. She further added that SPACE is a key event and a global forum where international exhibitors and visitors meet and share ideas. For foreign visitors, visits to poultry, dairy & sheep farms and agro industrial facilities were arranged. These tours were supported by ADEPTA and the Ministry of Agriculture and Fisheries. While interacting with exhibitors, they rated SPACE as a very high-quality trade show. The animal presentations also boosted the appeal and quality of our event. 550 cattle of different breeds provided a continuous spectacle in the main ring. 150 sheep and goats of 10 different breeds were also shown. Their involvement and the quality of their presentations were highly praised. The 70 conferences, debates and seminars that took place during the three days gave this year's event a new dimension, as poultry and livestock farmers were able to express their needs and expectations, in line with the ambition of the creators of SPACE. All Indian delegates visiting SPACE Expo appreciated the arrangements at Expo by the organizers especially at the International Club which had all facilities of translators, business meetings and refreshments for the international visitors. SPACE 2022 developed the political dimension of discussions with livestock sector stakeholders. The Minister of Agriculture, Marc Fesneau as well as various stakeholders were able to speak and convey their messages to exhibitors and livestock farmers during SPACE. These visits reinforce SPACE as a platform of expression and discussion to advance the major issues regarding the future of the livestock sectors. The 35th edition of SPACE concluded with an excellent record in terms of discussions and contacts, based on trust, in a spirit of construction and progress. The 36th Edition of SPACE will be organized from September 12-14, 2023, at the Rennes Exhibition Centre, Rennes, France. 



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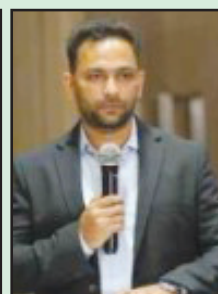
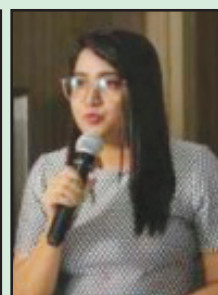


NOVUS

Novus Knowledge Forum brings Gut Health Optimization in Poultry to Coimbatore & Hyderabad

In an effort to share knowledge on how gut health can impact poultry production, Novus International hosted its second in a series of forums titled, 'Gut Health Optimization in Poultry' in the cities of Coimbatore (Tamil Nadu) and Hyderabad (Telangana) on 25 and 26 August 2022, respectively. Coimbatore and Hyderabad are prominent poultry-producing areas in India. Both markets consist of strongly integrated farming, commercial feed mills, and a mix of layer farms. With increases in demand for broiler meat and eggs, the challenges of getting good quality raw feed materials at a competitive price are increasing. Due to the use of lower quality feed and other factors, maintaining good gut health is another challenge for poultry producers. Fortunately, there are certain organic acids and essential oil complexes that have become important tools to help optimize the gut health of birds. Novus hosted these events to provide insight on how to help support good gut health in poultry.

The two Novus Forums received an overwhelming response with over 100 attendees including integrators, feed millers, and layer farmers, along with eminent knowledge/thought leaders from the poultry industry. The keynote speaker in the seminar was Dr. D. Chandrasekaran, a retired professor of animal nutrition at TANUVAS (Tamil Nadu Veterinary and Animal Sciences University). Having published over 75 scientific articles in national and international journals, Dr. Chandrasekaran is a renowned thought leader, nutritionist, and researcher in India and the subcontinent. At the event, Dr. Chandrasekaran talked about the importance of gut health, emphasizing that maintaining gut health is the first priority for every nutritionist in the poultry industry. Linked to better immunity, nutrient utilization, improve digestibility and overall performance of the birds, gut health is the most important factor. Using nonantibiotic additives, acidifiers, enzymes, and protected organic acid can help to control many gut pathogens and improve beneficial microbes in the gut, he said.



During the event, Dr. Manish Kumar Singh, director of strategic marketing for Asia briefed the audience about Novus International and its strong presence and foundation in feed additive products based on science and research. The sessions were moderated by Reena Rani L C, Novus senior marketing communications specialist – South Central Asia. Dr. Rajesh Kharvi, Novus category marketing manager in APEC, explained how Novus gut health solutions are unique and help poultry producers to maximize their profit by reducing the pathogen load in the intestine. He talked about the various trials Novus has conducted, showing the efficacy of Novus solutions – particularly eubiotic solutions AVIMATRIX® feed supplement and NEXT ENHANCE® 150 feed additive – in controlling pathogens and increasing beneficial bacteria in the gut.

“Novus believes in providing to our customers solutions with demonstrable value. With our unique eubiotic solutions for optimizing gut health and farm profitability, we are strategically well-positioned to serve our customers and increase their profits,” he told the group. AVIMATRIX® is created with Novus premium blend technology, utilizing a high concentration of benzoic acid embedded in a matrix that helps with homogeneous dispersion and the slow and continuous release of active ingredients along the entire intestinal tract of the bird. Due to its composition, AVIMATRIX® is dustless, free-flowing and non-corrosive, which allows the active

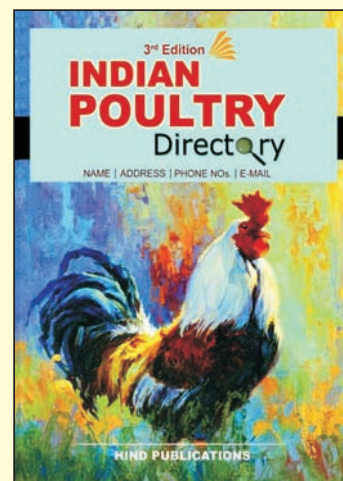
antibacterial ingredients to be delivered in the lower part of the intestinal tract.

NEXT ENHANCE® 150 contains a high level of essential oil compounds with thermostability and a patented micro-encapsulation technology that ensures the release of active ingredients at the right site in the gut. This structure and active ingredients is shown to reduce pathogenic bacteria, improve gut morphology, help to control *Eimeria* species, and increase beneficial bacteria in the gut, all of which helps to improve the overall performance of the bird. The event was supported by the Novus India team: Dr. Krishnamurthy, sales director; Rakshith T S, national sales manager; and Sridhar Jakkani, sales manager.

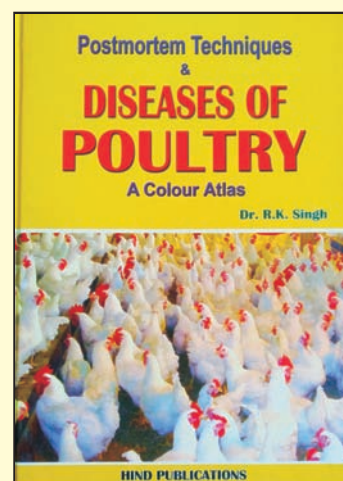
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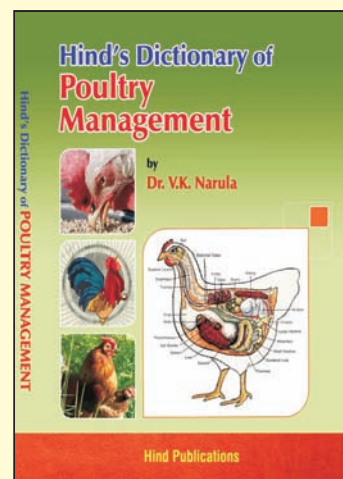
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Criteria for Selecting a Fast Phytase

Lode Nollet

Global Product Manager Enzymes, Huvepharma

What are the criteria to select a good phytase? Why select the fastest phytase? The importance of pH profile, pepsin resistance and speed (PPS) has shown to be critical to yield a fast phytase with reliable matrix values and superdosing properties. The main reason for using an exogenous added phytase in feed is to liberate phosphorous (P), bound as phytate, in raw materials. This does not only lead to a lower feed cost by reducing the amount of added inorganic P, but also exerts a positive effect on performance by degradation of phytic acid, which is a known anti-nutritional factor in feed. In practical animal nutrition, a fast acting phytase has two major benefits. First of all, the higher the speed, the higher the P release from the phytate will be, and the less extra inorganic P needs to be added to the feed. Secondly, as phytate also exerts anti-nutritional properties linked to the binding of minerals, protein and even fatty acids, its faster destruction will thereby improve the digestibility of these nutrients and increase animal performance.

pH profile

It is well-known that phytic acid must be in solution for the exogenous phytase to be able to hydrolyse the phosphate groups. Phytic acid is largely soluble at pH levels below 4.0 (gizzard/stomach). However, at higher pH levels (as in the small intestine), it forms complexes with positively charged ions, like calcium. A good phytase therefore needs to be active in vivo in the upper digestive tract, throughout the complete acid pH range from pH 2 to 4.

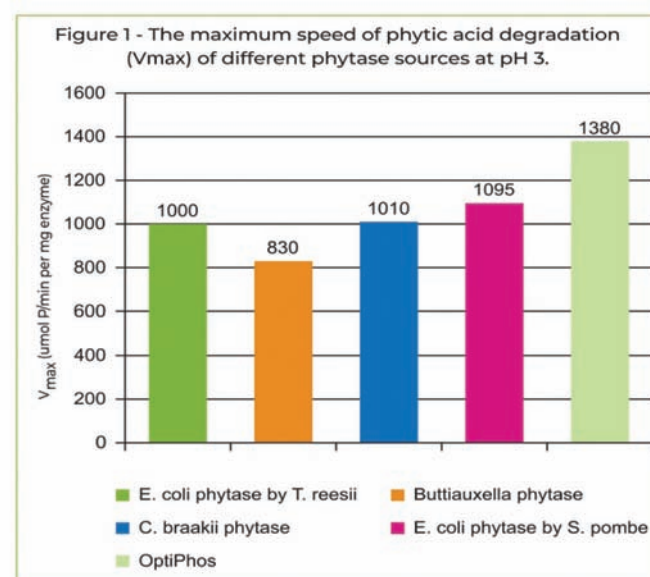
Pepsin degradation

Pepsin is a protease present in the stomach/gizzard, responsible for the degradation of proteins. As

phytases are also prone for the degradation of proteins. As phytases are also proteins, its activity can be reduced by pepsin in the stomach area, the site at which it needs to work at its maximum. Research has shown that not all phytases are equally resistant against this degradation by pepsin, which means that the full effectivity of these phytases in the gizzard/stomach cannot be achieved, even though they might have the right pH profile.

Speed

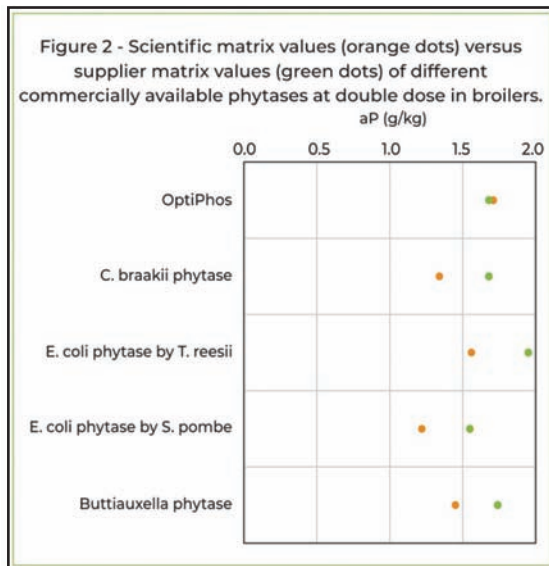
The speed of hydrolysis of phytate by a phytase (the V_{max}) is largely dependent on its pH profile and pepsin resistance and can be determined during in vitro enzymatic studies (the so-called Michaelis-Menten kinetic studies). In view of the short duration of feeding in the gastric region where the phytic acid is soluble and degradable, it is obvious that the V_{max} of a phytase needs must be as high as possible and will influence the greater efficiency of phytase (Figure 1)



Scientifically proven P matrix values

In order to calculate how much the addition of inorganic P to feed can be reduced by a phytase, each phytase supplier provides their specific P matrix values. The higher these matrix-values are, the more interesting the phytase becomes for a nutritionist when calculating with best cost formulation. It is however of the utmost importance for the nutritionist to be able to 100% rely on the correctness of these supplier's matrix values.

Trials done by independent research institutes, which are published in scientific peer reviewed journals, form an adequate and solid base for determining (and comparing) matrix values. These matrix values might be referred to as the 'scientific matrix values' and may be differentiated from the matrix values provided by the manufacturer, which we might call the 'supplier matrix value'. Such research in this scientific literature over the period 2002-2017 for poultry, for instance, have revealed that most phytase suppliers, except OptiPhos, overestimated the matrix value by up to 25%, and might thereby lead to under performance of the animals (Figure 2)



Superdosing effects at double dose

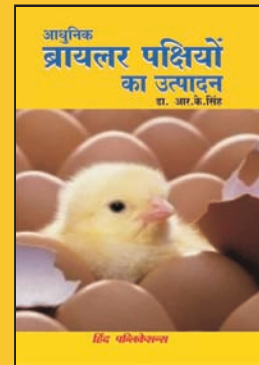
Phytate is known to exert anti-nutritional aspects by binding minerals, proteins and even fatty acids, hindering their digestion and absorption by the animal. A fast working phytase like OptiPhos thereby will yield faster positive effects on improvement of performance, and will yield superdosing effects at double dose. Other phytases will need three to four times the normal dose to yield this effect.

Conclusion

It can be concluded that the intrinsic characteristics of a phytase source is determined for a large part by its in vivo activity and its speed of action. The choice of a phytase, active at all relevant pH ranges, resistant to pepsin and showing a high speed of phytic acid degradation is therefore of the utmost importance to secure adequate and reliable P release from phytate. The better the phytase scores at these three points, the better and more reliable its P matrix values will be and the stronger the animal performance will be enhanced through superdosing.

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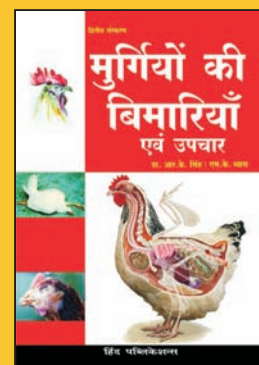
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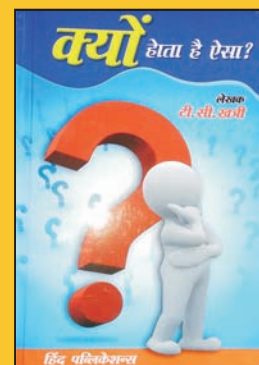
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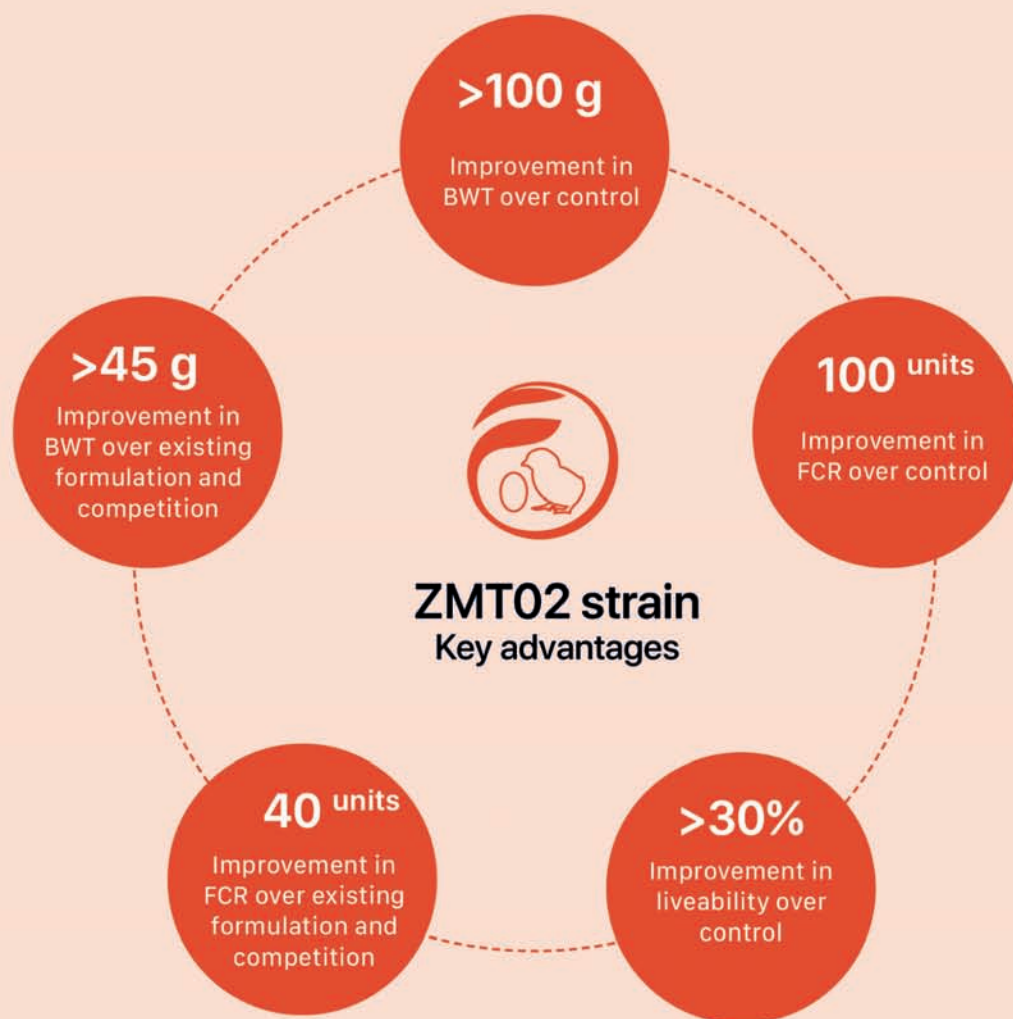
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Technical Manager
Kemin - South Asia

The Increase in Demand for Animal Protein is the Factor Behind the Driver of the Growth of the Animal Protein Industry



Dr. Tanweer Alam

Director Marketing
Kemin - South Asia

Dr. R. Suresh Kumar is A Post Graduate in Veterinary science with more than 28 years of successful managerial experience in Sales and Marketing. In 1994, Dr. Suresh Kumar joined Selvam Broilers as Production manager and rendered his services to Intervet till 2002. Dr. Suresh joined Kemin during 2002 as Technical Manager and had been promoted to President for Kemin Industries South Asia in 2017. He is an integral part of Kemin's growth from last 20 years.

Dr. Tanweer Alam, a veterinary professional, served as Captain in Indian Army as Vet Officer and had handled Clinical and Administrative positions. Dr. Alam joined Kemin Industries South Asia in 2012. He is having more than 25 years of experience in Animal Health Industry. Dr. Alam Passionately likes to expand market playfield as per the perceived or hidden needs of the customers and accordingly positioning of people and products.

Q1. Can you please elaborate on the role of Kemin; specifically, Kemin Industries South Asia, in the evolution of the Indian Livestock Industry?

Dr. Sureshkumar : Kemin looks at the livestock industry from the lens of its vision which is directed towards sustainably transforming the quality of life of more than 80% of the people with the products and services. We believe that the livestock industry has a very strong correlation with the providing of health and nutrition to the people on this planet and all our activities are directed towards more efficient animal protein production.

One of our values is working in the true spirit of partnership with our business partners and we strive

to provide business solutions holistically with a win-win approach. Recently, we proudly celebrated our 61st anniversary with many of our business partners in an event named '61 since 61' at Chennai. During this event, Kemin took this opportunity to convey gratitude to all its customers and business partners for the mutual trust and confidence bestowed upon the organization for the past 61 years and we are confident that this will further strengthen a strong foundation of trust with the partners in the coming decades as well.

Q2. Dr. Tanweer, So please tell us something about you and your Journey in Indian Animal Feed Industry?

Dr. Tanweer : Being associated with the animal feed and nutrition industry for the last 25 years makes me even more curious to know more about this industry. No other industry impacts the lives of so many people on an everyday basis as livestock. For around 22 Million people in India, more than 30% of total farm income comes from the livestock sector. The animal feed industry has been playing a very strong role in building up the momentum of production output. The three drivers of the livestock feed industry are Poultry, Dairy, and Aqua and they all have been consistently growing primarily because the production output is driven by good quality feed. Strong growth of more than 6-8% on a YOY

basis is continued to be expected to be in the future.

Indeed, the present market of around 40 MMT livestock feed in India is going through challenging situations owing to RM price escalation on one side and the non-realization of desirable return on the cost of production but in the longer landscape, we are seeing that this journey is set to see its further hey days ahead.

Q3. If we leave the last 4-5 months, the Indian poultry industry is making losses for the last 2 years, for various reasons. We have recently faced the worst crisis in the history of the Indian Animal Feed Industry. The steep increase in Maize and soya prices, in 2022, has made holes in everyone's pocket in the industry. What is your take on it? What short-term (Steps to be taken in 1 year) and long-term steps should be taken by the industry to avoid such a situation in the future?

Dr. Sureshkumar : As a matter of fact, in the past two years, most industries have gone through disruptions in their business and have been facing one or other kinds of crises, so is the poultry industry. In the recent past, owing to economic challenges, the Ukraine war, ongoing pandemic blues, etc the situation has been even more unpredictable.

One of the relevant impacts has been the astronomical rise in feed raw material and ingredient prices. The feed price constitutes around 60-70% of the total production cost in the poultry diet and this has seriously impacted the cost of production ratio. This got coupled up with an impact on the consumption pattern of chicken and chicken products owing to inflationary effects. The devising of a perfect strategy in today's

conjunction can be anybody's guess. However, some suggestions for the short term and long-term strategy can be summarized as follows.

In today's context, diet optimization is one of the most effective means of taming production costs. Precision nutrition with linear programming models has been widely used for this purpose. The optimum level of inclusion of alternate ingredients without impacting feed intake and performance of the birds is another direction, which can be explored at this time. In addition, the focus is also gaining on the usage of enzyme solutions and solutions for improving gut health for better nutrient digestion and absorptions.

Among the long-term approaches, gradual and scientific incorporation of alternate feed ingredients to their full potential without impacting animal performance, exploring new and emerging alternate energy and protein raw materials, developing the solution to overcome the anti-nutritional factors thereby improving the digestibility of alternate feed ingredients, quickly developing data points on digestibility, safe inclusion %, and performance report for new alternate raw materials to demonstrate RoI, adapting modern technology, management practices, milling techniques, feed additives, etc., to improve the overall efficiency, etc can be some of the directions of work.

Q4. What can be the true alternatives for Soya & Maize? Is it practically possible? If yes, how much time it will take to reduce, at least 50% of dependency on these crops?

Dr. Tanweer : Conventionally

speaking, soybean meal and maize have been excellent sources of protein and energy in the poultry diet. However, over some time, the scarcity, and disruptions in supply of these conventionally used RMs are leading to the usage of some alternatives. For Soya, the alternatives RMs which are being used in varying percentages by different nutritionists are Peanut meal, Sunflower meal, Canola meal, Brewer's spent grains, Single-cell proteins, Sesame meal, Fish meals, and non-soya protein blends.

As an alternative to Maize, the RMs which are shooting in prominence are Sorghum, Wheat, Bajra, Broken rice, Barley, and certain industrial by-products. These alternative RMs of maize and soya can be used very judiciously as one has to consider the associated factors like availability, consistency in supply, nutritional quality, presence of anti-nutritional factors, inclusion percentage, etc.

Alternative protein and energy sources can be a valuable tool in lowering feed costs for Poultry. However, the formulation of diets with alternate ingredients demands meticulous work of a nutritionist who has to strike a decent balance of selecting the right ingredients, which meet the nutrient requirements as per the stage of the birds, give the best digestibility of ingredients in acceptable inclusion percentage along with the inclusion of right feed additives. This approach is indeed gaining ascendancy across the globe, and the possibility of usage of up to 50% of conventional ingredients with alternate ingredients seems to be a stretched goal but we cannot rule out the possibilities in coming years.

Q5. How different & difficult (or easy) is the post-COVID -19 era

in terms of corporate communications (meetings & Conferences) & interaction with your customers?

Dr. Sureshkumar : We all live in a hybrid world now. The past years have taught us one lesson. Work is not a place but an activity that serves a defined purpose. And it can be delivered in any mode, as long as it's serving the purpose. We also have adapted many digital interventions to continue serving our esteemed customers and business partners and many more interventions are in the offing. The good part is that we are seeing our customers also adapting to digital mode much faster and we can see the ecosystem of our working and serving our customers in the future will be further different than what we see today.

Q6. You are very aware of the India feed additive market, which is flooded with several products, in recent years. How Kemin's product is different from any other Feed Additive available.

Dr. Tanweer : For the last 61 years, Kemin is leveraging science to sustainably transform the quality of life every day for 80 percent of the world with our products and services and we go to great lengths to ensure the safety and quality of our products. We are dedicated to being a responsible ingredient manufacturer across our ingredient supply chain, from raw material to finished ingredients. Kemin is committed to the highest standards of raw material testing, above and beyond any required compliance or regulatory standards.

Our scientific breakthroughs have addressed needs in human health, food safety, and protection of



the global food supply chain and now it has expanded into animal health, nutraceuticals, pet food, food technologies, crop technologies, textiles, aquaculture, animal vaccines, and bio-solutions. Through rigorous raw material risk assessments and quality management systems, Kemin delivers safe, high-quality products to customers across Asia and around the globe.

Beyond serving as a responsible ingredient manufacturer, Kemin provides tailored customer lab services, product application support, and technical expertise to help customers maximize the value of our ingredients in their products.

Q7. Your take on lab-cultured meat and Plant-based Meat products. Will it make any space in Indian QSR (Quick Service Restaurant) market? If yes, how impactful it could be on our poultry industry?

Dr. Sureshkumar : Lab cultured meat or as it's also called clean meat or cultivated meat can indeed be considered a scientific disruption. But rather than looking at it as a replacement for conventional poultry meat, we need to consider it as a complimentary product for serving a segment of the

overall market. When you look at the data that the per capita meat consumption across the globe varies from less than 5 Kg per capita per annum in some countries to more than 140 Kg per capita per annum in some other countries, the only thing that comes to mind is that there is a huge opportunity of growth of poultry and other meat across the globe. As per one of the 2020 market reports, the total fresh meat market is close to 350 MMT and the total projected market for alternate meat in 2024 will be close to 23 MMT. That suffices what impact the alternate meat will have on the overall industry. Plant-based meat product stems from another philosophy of veganism but has to catch up with more momentum to even be considered in the analysis landscape.

Q8. World is moving from AGPs to Non-AGP, and the poultry industry is always on target on this issue. What is your take on this in the context of the Indian livestock Industry?

Dr. Tanweer : Let's look at this question bit holistically. For feeding 7.9 Billion people on the globe, we need around 140 MMT of protein per annum. Of course, it can come from plant and animal sources, but animal protein is one of the key contributors

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to fulfilling the need. From all the animal protein sources of meat, fish, egg, and milk which we are producing globally, we get roughly 80 MMT of protein, and pulses which are considered the biggest contributor of protein for vegetarians contribute only 15 MMT of protein. Even if we count the protein coming from other food sources, we can say that we are deficient in protein balance sheets across the globe. In the Indian context as well, the situation is no different. Our requirement of protein even on an average basis is at least 30% more than what is being produced across the globe. And when we factor in the huge disparity in protein consumption in developed and developing countries, then the gap between the need and supply of protein becomes all the wider. This has been a problem statement for most of the organizations associated with the animal protein industry and they have been contributing to finding a solution of the same. Even we at Kemin are getting driven by our vision of transforming the quality of life of people, in this case, with improved and sustainable availability of animal protein. Poultry production will continue largely getting driven by this demand for protein and incidentally, most of the market research on consumer consumption behavior is forecasting protein consumption growing fastest Vs other animal protein sources, for various reasons.

In India also, we are seeing consistent growth in per capita poultry meat consumption. Some bullish market research projects that the Indian poultry sector is poised for double-digit CAGR growth till 2030. The year 2023 is projected to cross the milestone of 136 Billion eggs and 6.2 Million Ton poultry meat produced by Indian poultry




producers. On account of the rapidly changing consumer consumption behavior, one of the McKinsey reports indicate that per capita chicken consumption is set to grow from existing 3.2kg to 9.1 Kg by 2030. This expected growth of the Indian poultry sector is not going to be a cakewalk. The surge of challenges, both predictable and unpredictable ones will continue. Largely, today's poultry producers have two critical tasks with them. One, producing quality meat/eggs in compliance with food safety norms and growing customer expectations. Along with compliance with food safety norms, it's also important to upkeep the trust and confidence of Indian consumers in the quality of chicken. With sleight of media rumors, we have seen it getting shaken umpteen times in the past. The usage of anti-microbials also is getting more restrained. Part by regulation and part by consumer preferences. We can see that India has been assessing the situation and taking needful action from time to time. The ban on systemic antibiotic Colistin Sulfate for manufacturing, sale & distribution in animal feed supplements in 2019, was one of the moves to check the usage of antibiotics in poultry. Similarly, other measures will be adopted to prevent the emergence of resistant

bacteria in animals, and possibly in the food chain.

Two, keeping a check on the cost of production as poultry consumption in India is highly price sensitive and a rise in retail price can hurt the demand curve

Q9. Your Message to Indian Poultry Industry and Farmers?

Dr. Sureshkumar : There is a significant dietary diversification happening in the food consumption pattern of the Indians over some time. Whereas we are observing that the per capita consumption of cereals declining and that of 'basic' foods - containing proteins (milk, eggs, fish, and chicken) as well as fat (edible oils) and micronutrients (vegetables and fruits) - going up. This acceleration is happening for the past decade or so and in COVID times, it has further got paced up. Two factors are noteworthy here. The increase in demand for animal protein is the factor behind the driver of the growth of the animal protein industry and second, there is a sizeable role of public, private, and cooperative sectors in synergy in this ecosystem of animal protein production. These are extremely positive factors for the upsurge in the growth of the feed industry going ahead and anyone would feel excited to be part of the journey of the livestock feed sector. 



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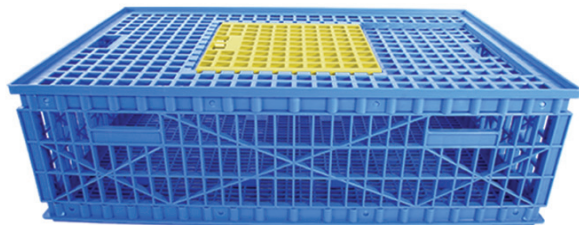
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An Effective Strategy to Combat AMR (Anti-Microbial Resistance)

Dr. Ashok Rajguru

Program Manager, Trouw Nutrition India



Poultry Industry faces disease challenges from viral, bacterial and protozoal sources which contribute significantly to economic losses in poultry production. For controlling bacterial infections, AGP and antibiotics are the common remedies which in turn leads to AMR. AMR (Anti-microbial resistance) refers to antimicrobial adaptation of a microorganism (bacteria, viruses, fungi, protozoa and helminths) to which it was previously sensitive. It is estimated that every year at least 700,000 deaths are attributable to AMR. Given the current rate, the annual death toll can climb to 10 million by 2050. Given the rapid zoonotic prevalence, AMR bacteria may also spread from animals to their environment and to humans. That's why World Health Organization (WHO) in 2017 has recommended to stop rampant usage of antimicrobials for growth promotion purpose. As a response to AMR reduction, Asian regions like India, China, Indonesia, and Vietnam banned use of Colistin as a feed additive (growth promoter). By limiting the use of antimicrobials, poultry producers can help to maintain the efficacy of these interventions, protecting animals' health and humans. Trouw Nutrition's global experience in working with integrators who are leaders in antibiotic reduction have demonstrated that it is possible to produce broilers without antibiotics and realize improved health performance of chicken with better profitability.

A successful AMR reduction requires a systematic integrated approach. Trouw Nutrition's Feed-Farm Health programme has been effectively demonstrated (Figure 1, 2, 3 & 4) to reduce the reliance on antibiotics and eventually result in an antibiotic-free rearing.

Fig. 1 Feed, Farm & Health intervention reduced Antibiotic use (-59%)

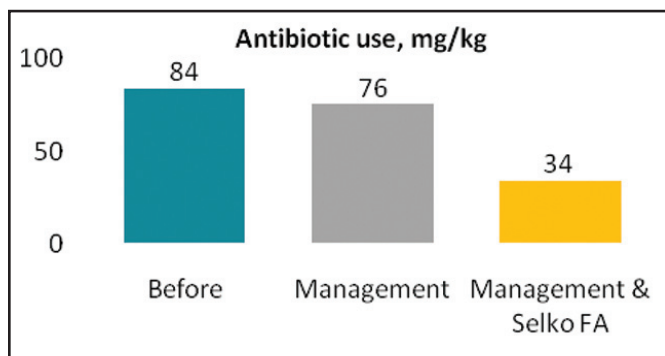


Fig. 2 Feed, Farm & Health intervention improved profitability

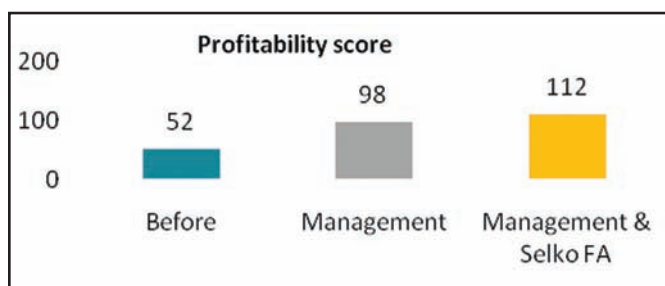
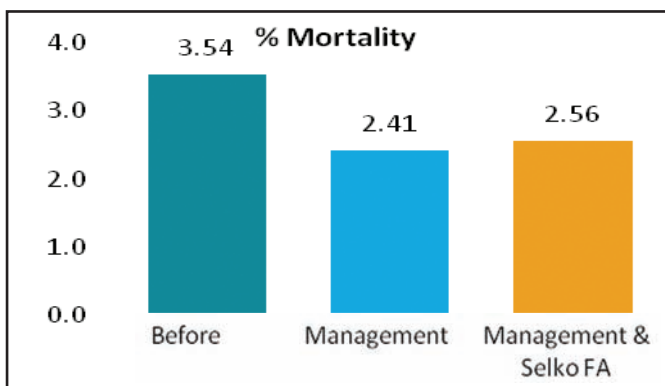
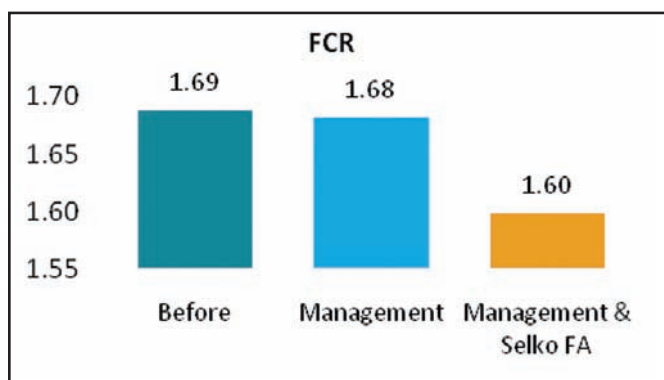


Fig. 3 & 4 - Feed, Farm & Health additive intervention reduce FCR (-5%) & mortality (-28%)





This programme includes analysis of critical control points across entire poultry production chain. Analysis of each component in the chain can be tailor-made solution designed to address each producers' situations. This integrated approach underlines Trouw Nutrition's commitment to help customer reduce need for antibiotics while maintaining profitability. This tailor-made intervention helps to overcome challenges while reducing antibiotics usage. These six steps approach mentioned ahead will help to achieve high performing flocks without the use of antibiotics.

Step 1: Define the purpose of AMR reduction:

First define the purpose of antibiotic reduction programme, for e.g., farming without antibiotics, reducing antibiotics or stop only AGP. Successful antibiotic reduction requires commitment across the production chain. Trouw Nutrition believes that defining and believing in the purpose is an important step before designing the tailor-made programme as per customer requirements.

Step 2: Audit feed, farm, health base lines:

Measuring progress requires establishing a benchmark for comparison. There are certain parameters to be evaluated at the level of feed, farm and health.

Feed Management:

Consider the breed (Ross or Cobb), when evaluating feed intake and feeding schedule. Some information should be collected such as feed form, daily feed intake by chicks/birds. Also, we should collect feed samples & RM and conduct feed analysis for nutritional, mycotoxins and microbial analysis such as moulds, bacteria (Enterobacteriaceae). If thresholds are exceeded, accordingly action will be taken in terms of feed formulation, feed safety measures such as microbial and mycotoxin control programme.

Farm Management:

Day-old chicks are vulnerable, so check newly arrived chick quality, including weight uniformity and body temperature. Consider the climate of the chick house. Evaluate proper brooding temperature, floor temp, correct ventilation, proper feeder and water drinker arrangement and easy access of it to chicks. We should consider aspects like sufficient paper feeding, hygienic floor and biosecurity etc. while auditing farm.

Health Management:

It is important to know currently which antibiotics are being used and for what purpose. Effectiveness of the antibiotics should be assessed along with other details like if any antibiogram is done and if there is a customized anticoccidial rotation programme in place. Review current vaccine schedule and feed & water acidifier being used, if any. Evaluate dropping consistency, necrotic enteritis or dysbiosis status. Conduct gut lesion scoring for dysbacteriosis, coccidiosis and gizzard scoring.

Step 3. Introduce tailor made solutions

Only after an audit (preferably after completion of production chain) targeted solutions should be introduced. Following products, models and services can be implemented.

Feed Management:

Solutions should be able to assess the current nutritional parameters and accordingly provide the best solutions for precision nutrition while also assessing and managing the risk of microbes. At Trouw Nutrition, we incorporate high quality least cost feed formulation and conc. premixes to meet optimum nutritional requirements, models like NutriOpt including NOA and NIR services for rapid nutritional feed analysis and precision nutrition. Feed safety programme of Trouw Nutrition helps to mitigate mycotoxin risk and microbial contamination through Toxo XL, Fysal MP/Selacid GG depending on risk assessment review.

Farm Management

With 90 years of global expertise, Trouw Nutrition provides services like advice on house climate, positioning of feeders, feeding pattern, and water drinking according to age of birds and other environment challenges control etc. In addition to control

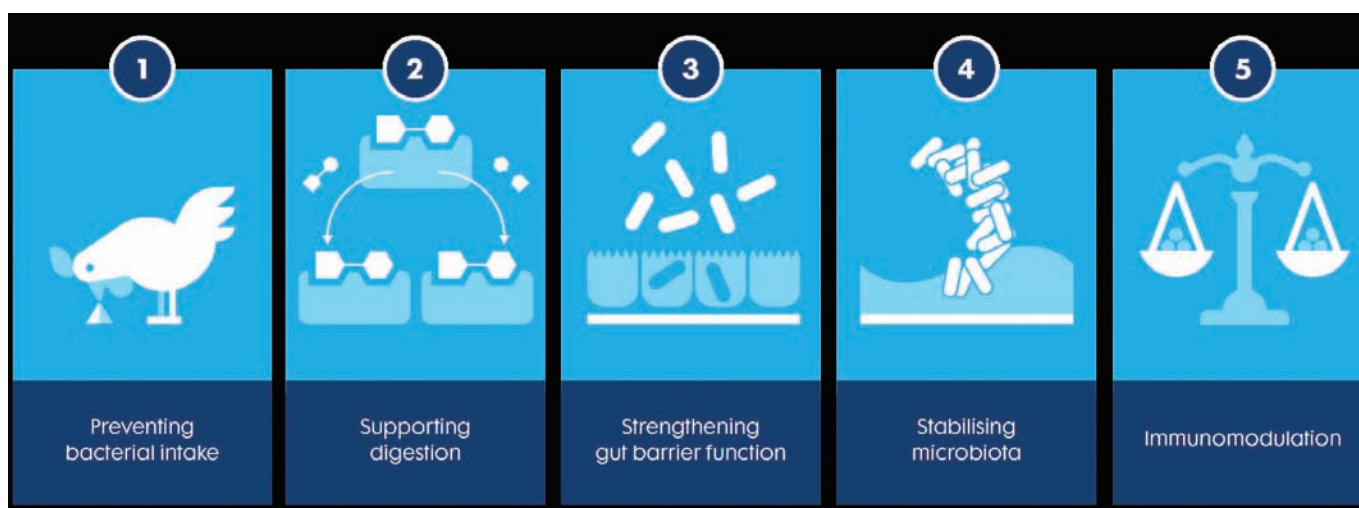


Figure 5 : Trouw Nutrition's 5 pillar to support gut health

water infection and for better digestion an effective water acidifier like Selko-pH can be introduced.

Health Management

For overall good animal health, ensuring good gut health is a primary challenge. Trouw Nutrition's 5-pillar approach (Fig 5) for ensuring eubiosis through a strategic use of synergistic combinations helps to achieve the desired health status. Products like Selko pH, Selacid GG, Presan-FY and IntelliBond C can support in ensuring healthy life. In addition, our gut health experts can help in dysbacteriosis gut health scoring, provide advice on vaccination & biosecurity.

Step 4: Calculate Return on Investment (ROI)

A solid AMR strategy must also make sense in terms of efficacy and producer economics. It is important to assess the same in regular intervals while also ensuring that there is a systematic approach in achieving the final objective.

Step 5: Implementation is key point


Continuous collaboration, sharing of information and communication between the various stakeholders

is essential to ensure the desired results. Trouw Nutrition with the help of regional and global experts ensures the maximum knowledge sharing to meet our customer's requirements.

Step 6: Evaluate, Adapt, Repeat AMR programme

Finally, we assess whether the implemented intervention meets the customer's need as outlined in step 1. The process is repeated until the final goal is achieved. In a dynamic market- place, the initial goal will inevitably be fine-tuned over time. Consistently deploying a six-step cycle which integrates feed, farm and health management, can take AMR programme from vision to achievement.

Conclusion:

Trouw Nutrition is committed to enable the animal production industry to reduce the need for antibiotics while maintaining profitability and we already have a track record of being capable in doing so. 

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VNU Asia Pacific join forces with Deltaman to Launch the Philippines Poultry Show in co-location with ILDEX Philippines 2023

VNU Asia Pacific, the organizer of ILDEX Exhibitions, is entering the Philippines. After organising ILDEX Vietnam and ILDEX Indonesia for nearly 20 years, VNU Asia Pacific announces a new show “ILDEX Philippines” in co-location with “the Philippines Poultry Show” scheduled from 9-11 August 2023 at SMX Convention Center Manila, Philippines. The Philippines is one of the fastest-growing emerging markets, and the 3rd largest economy in Southeast Asia by nominal GDP, following Thailand and Indonesia. The Philippines is primarily considered a newly industrialized country, with an economy transitioning from one based on agriculture to one based more on services and manufacturing.

In 2021, the value of production in the livestock industry in the Philippines amounted to approximately 252.11 billion Philippine pesos, which was a decrease compared to the previous year's total. On the other hand, a bright future for the Philippines poultry industry is indicated by a 4% increase in chicken egg output in 2020 compared to the previous year – from 583,234 MT to 605,78 MT. The country's chicken layer population expanded by 4.19% from 41.202 million birds to 42.928

million. Consequently, the Philippines livestock market also has great potential for growth, and the exhibition is a chance to expand business opportunities in this country.

VNU opens a new gateway to reach the Philippines market

“VNU Asia Pacific held the initial investor meetings project in 2019 in Manila, but due to the pandemic, the development of the project was slowed. ILDEX Philippines 2023 will reflect the market's high levels of demand and opportunities for the players entering the market, and ILDEX Philippines will be part of the VIV worldwide portfolio” said Ms. Panadda Kongma, Director of Agribusiness and Operations, VNU Asia Pacific.

“ILDEX has had great success in Vietnam and Indonesia over the past 20 years. In 2023, we are super excited to bring the ILDEX brand to a new destination, the Philippines, a dynamic market with great potential for the livestock industry. Our partner, the Philippines Poultry Show, already had established a solid base in the poultry sector over the past 10 years, and ILDEX will be adding more elements including swine, dairy,





aquaculture etc. to this platform. We look forward to a successful partnership with the Philippines Poultry Show."Mr. Kevin Zhao Bo, Project Manager of ILDEX Vietnam & Philippines, VNU Asia Pacific added

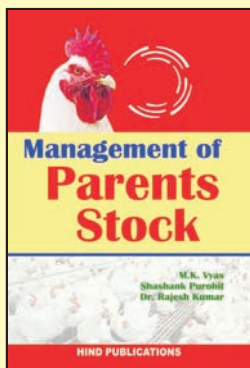
Deltaman kicks off the Philippines Poultry Show alongside ILDEX Philippines

Over the years, the Philippines Poultry Show has not only grown bigger in size, but is also becoming even better in terms of features and exhibits. So much so that it has become a much-awaited event for poultry industry stockholders, exhibitors and the general public.

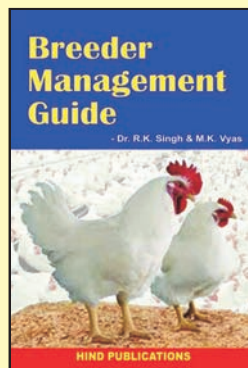
Together with our new partner VNU Asia Pacific, we promise a world-class trade show & exhibition.

The Philippines Poultry show in co-location with the 1st edition of ILDEX Philippines 2023 will be held from 9-11 August 2023 at the SMX Convention Center Manila, Philippines, organized by Delta Man and VNU Asia Pacific. 

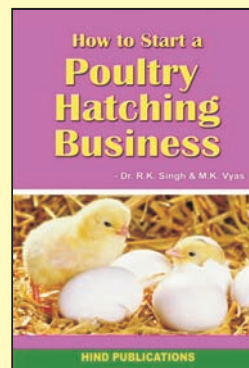
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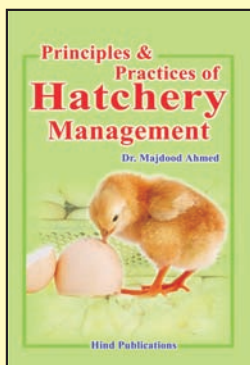
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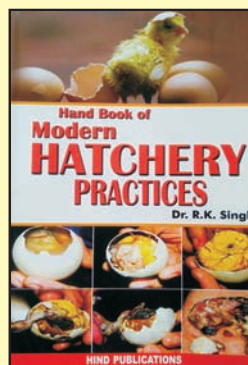
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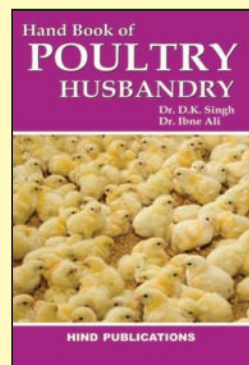
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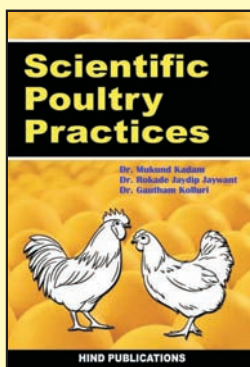
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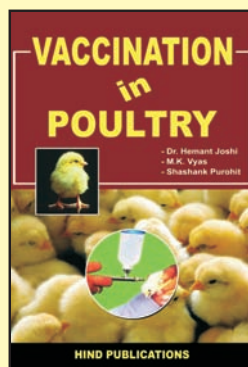
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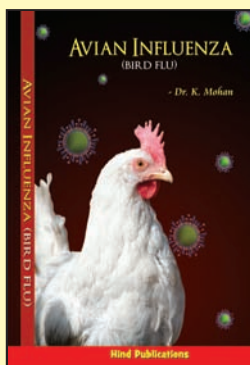
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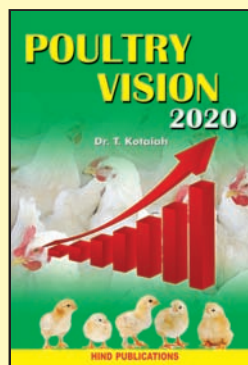
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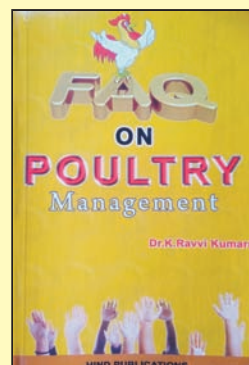
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Technical Seminar

On Poultry

October 8th 2022



Poultry Industry of Chhattisgarh Gathers to Witness IPJA Technical Seminar on Poultry at Raipur

Indian Poultry Journalists' Association conducted yet another a very successful technical seminar on poultry in Raipur, Chhattisgarh on October 8th 2022 in Hotel Marriott Courtyard. This was the last technical seminar of this calendar year. The technical seminar was attended by over 250 people of poultry fraternity who came from Durg, Bhilai, Bilaspur, Nagpur, Rajnandgaon, Indore and several other places. The primary reason of selecting Raipur for this technical seminar was to take poultry experts to this region and interact with poultry farmers including Feed manufacturers, Layer and Broiler framers and also the breeders. We also know that poultry entrepreneurs in Raipur are very progressive and despite having a layer population of over 90 lakhs and a huge jump in the rearing of broilers the industry is still losing heavily due to rate fluctuations and over-dependence on traders. Raipur is also slowly but surely moving towards processing and exploring opportunities in export. Looking at all these issues IPJA decided to conduct its 20th technical seminar in Raipur.

The technical seminar started with a welcome address by Mr. B. S. Rana, President- Indian Poultry Journalists' association, who said that for last several years IPJA has been conducting technical seminars on a different part of the country to make farmers aware of new technologies in poultry farming. He also welcomed all the speakers and sponsors of this technical seminar. He also informed that every year IPJA also conducts IPJA GLOBAL AWARDS in Hyderabad to recognize the outstanding work done by Indian and Global companies in the field of poultry breeding, pharmaceutical, equipment manufacturing, Research and Development, Feed Manufacturing, Processing, Introducing the Innovative Products, Healthcare, and few other fields.



He informed that this year IPJA Global award will be held in Hotel Avasaon 24th November 2022 from 6 PM onwards to present the awards to recognize the outstanding work done by Indian and Global companies in the field of poultry breeding, pharmaceutical, equipment manufacturing, Research and Development, Feed Manufacturing, Processing, Introducing the Innovative Products, Healthcare, and few other fields.

While concluding his welcome speech he appreciated the wholehearted support of the people of the poultry industry.

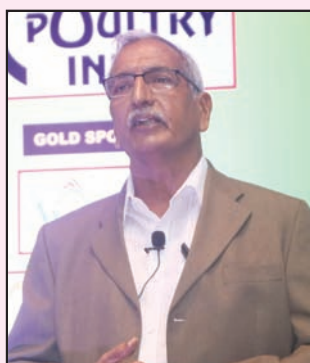
The first presentation was made by Dr, Manoj Shukla on the current status of poultry industry in India. He said that poultry industry is now on the crossroad and we need to choose the direction very carefully. He said that our poultry industry was suffering for quite a long time due to rate fluctuations. He further said that if for last few days we are witnessing the jump in demands but its only because of our good luck. He said that the disease in cows (LSD) and pigs (ASF) has resulted in diverting the demand of that meat products towards poultry meat; mostly in north eastern part of India. He cautioned all the poultry producers to remain alert and united to face the challenges. Dr. Shukla also said that now the consumption areas are becoming production areas which has left us with an only option "To increase per capita consumption".

Next presentation was from Dr. Devender Hooda who spoke on the underrated mineral in poultry products "ZINC". He said that the ZINC is the most economical products and if applied with the complete knowledge of its Unique Natural Features it can do wonder in controlling the disease and even considerable saving of the medication cost.

Dr. S. K. Malhotra, Managing Director INTERFACE Pharma Private Limited made a power point presentation on his products and said that how his products can provide not only better FCR but also the

Better productivity and increase in number of eggs per cycle.

The next presentation was made by Mr. Joginder Uppal and Dr. Krishna Sahoo of PROTEON Pharmaceuticals on a Sustainable Solution Supporting





Antibiotic Free Animal Farming. Mr. Joginder Uppal spoke about the concept and mission of Proteon and said that in changing scenario the products of proteon will be a key factor in poultry farming not only in India but across the globe.

Dr. Krishna Sahoo made a very strong powerpoint presentation on the subject and the benefit of several portfolios of Proteon.

Mr. Shirish Dhopeswar also made a powerpoint presentation on the Multiple benefits of poultry waste management. He said that almost all the poultry waste like litter, dead birds, unfertile eggs etc can pose a threat not only to the environment but also result in spread of disease if not properly disposed. He said that all these wastes should be disposed of properly and in a scientific way. He also informed the gathering about the different machinery and equipment available in market through which farmers, hatcheries and Breeders can dispose of their waste scientifically. By doing so farmers will also be able to make some money and also save their farms with the threat of spreading the diseases. He also introduced the machinery manufactured by Dhopeswar Engineering Private Limited like different capacity waste rendering plants for farm mortality, Layer and Breeder Manure, Hatchery Waste and Slaughter waste.

He also said the Dhopeswar Engineering Works is exporting its products to more than 20 countries.

During the sponsors presentation, Mr. P. Chakradhar Rao, President Indian Poultry Equipment Manufacturers Association and the member of Exhibition Advisory Committee of Poultry India Exhibition spoke about the POULTRY INDIA EXHIBITION which is going to be held on 23-24-25 November 2022 in Hyderabad. He said that the Knowledge Day will also be held on 22nd November 2022. He invited all the attendees of Raipur Technical Seminar to visit poultry India and said that they must visit the show for all the three days as it is not possible to visit such a huge show in a day or two. He on behalf of Poultry India Exhibition thanked Indian Poultry Journalists association for organizing such a wonderful show and promised that whom so ever will be conducting such technical seminars poultry India will extend its full support.

After Lunch, a presentation was made by Dr. Vishal Sonkamble on Vaccination and Vaccination Techniques. While making his power point presentation he spoke about the proper handling and storage of Vaccines and vaccination equipment. He said that if proper vaccination is not done the desired results can not be achieved. He also spoke about the care required to be taken specially during the spray vaccination.




Mr. P. Chakradhar Rao also made a power point presentation of importance of water in sustainable poultry farming. While speaking on the subject he said that its important to provide clean and adequate water to birds. He also spoke about the importance of watering equipment specially the nipples and water tanks.

He said that the correct quantity of water is very important while using WS medicines. Mr. P. Chakradhar Rao also spoke about the chakra group of companies and its several quality products available in the market which can make poultry farming easy, effortless and remunerative. The last presentation was made by Dr. Ajay Chalikwar on Gut Health & Immunity in Poultry Management.

The presentation by Dr. Ajay was mesmerizing. It was a PowerPoint presentation and through different slides, he took the audience to a virtual tour of managing the gut health in poultry. Vote of thanks was presented by Mr. Shashank Purohit.

He thanked all the sponsors, Mr. S.S Brahmkar, Mr. Achin Banerjee, Dr. Manoj Shukla and his team Peoples for Poultry, Dr. R. Jaiswal, Dr. Majdood Ahmed, Mr. Ricky Thaper, Dr. Dinesh Kumar Arora, Mr. Sanjay Brahmkar and all the farmers for their participation. Mr. Purohit also mentioned a special thanks to Mr. Nipun Gupta who came right Poland to attend the seminar.

Members of Indian Poultry Journalists' Association also felicitated Dr. NipunGupta, Mr. S. S. Brahmkar, Mr. Achin Banerjee, Dr. R. Jaiswal, Dr. Majdood Ahmed, Mr. Ricky Thaper and Dr. Dinesh Kumar Arora and Dr. Manoj Shukla. Mementos were also presented to all the speakers and sponsors. 



SPACE took place from 13 to 15 September in a very warm and positive atmosphere marking its 35th anniversary

SPACE took place from Tuesday 13 to Thursday 15 September in a very warm and positive atmosphere, marking its 35th anniversary. Attendance was very high over the three days of this 36th edition at the Rennes Exhibition Center. The full scope of the livestock industry was represented, from cattle, pigs, goats and sheep to poultry, rabbits and aquaculture, in a very positive and constructive ambiance.

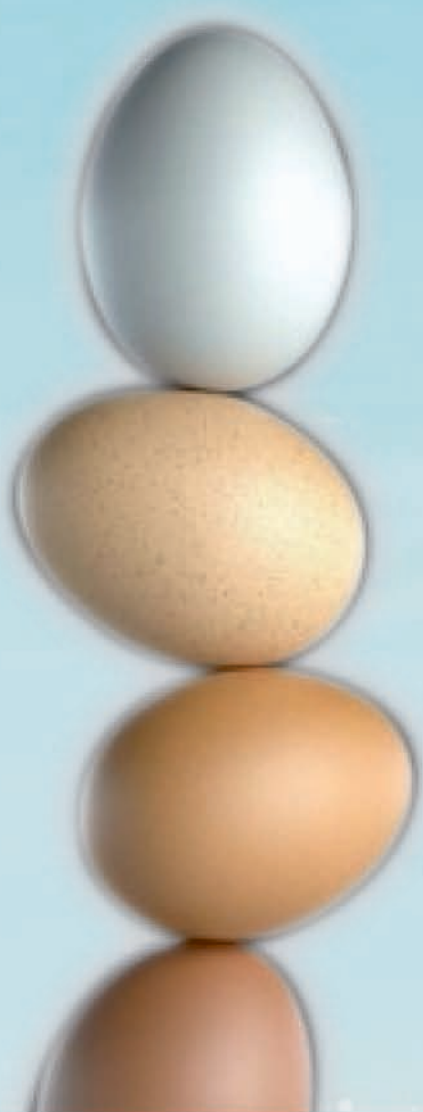
SPACE 2022 was extremely successful, with over 90,000 visitors (90,108, of whom 8,406 came from 120 different countries), and close to 1,200 exhibitors (of which 300 were international businesses and 250 were taking part in SPACE for the first time). The event recovered its full international dimension after two years during which travel by visitors from abroad was heavily restricted. Delegations from around the world came to meet exhibitors, visit farms and draw inspiration from our organisational models. Many contacts were established with delegations from West Africa (Senegal, Côte d'Ivoire, Mali, Benin, etc.), Cameroon, the Democratic Republic of the Congo, Morocco, Algeria, Vietnam, the Philippines and numerous European countries. Talks organised for the first time in partnership with Promo salons led to important business exchanges with top buyers from Colombia, Chile, India, Saudi Arabia, Turkey, Morocco and Nigeria.



In a context marked by drought and the soaring price of energy and raw materials, climate was the annual theme developed by the E space for the Future. Through the numerous debates, conferences, products and equipment presented by exhibitors, SPACE 2022 provided an opportunity to show that agricultural stakeholders are already taking measures aimed at reducing the impact of livestock farming on the climate. The livestock industry provides solutions to face climate challenges, and SPACE was able to demonstrate this. SPACE is also unique for its capacity to host around 100 conferences each year, allowing all stakeholders in the agricultural sector to learn about and discuss topical issues such as new technologies, solutions for reducing climate impact, establishing and selling farms, protein self-sufficiency, research into new fodder crops, CAP issues, etc. Livestock presentations, with 550 cattle of 13 breeds and 150 sheep and goats of 11 breeds, provided a magnificent showcase for genetics and the breeders' know-how. A special focus was placed on the Jersey dairy breed with more than 60 cattle on show and in competition. The European Jersey forum was held during the event and the World Jersey Cattle Bureau had the opportunity to discover SPACE's unique position for livestock breeders. The Blonde d'Aquitaine was the beef breed under the spotlight, with a national challenge that proved highly popular with 80 cattle on show. The champion of the Normande breed competition was voted supreme champion of SPACE 2022. This dimension as a genetic showcase and the high-level competitions and presentations are also what makes the Expo a driver for progress for livestock farmers.

For its anniversary, SPACE 2022 was the epitome of a professional, international and convivial trade show. Despite a difficult context, these three days have proved that with abundant and constructive dialogue, high attendance by visitors and exhibitors and the expo's very positive dynamic, 35 years after its first edition SPACE is an exceptional showcase for the livestock industry. A modern, constantly-evolving industry with a bright future and a resolve to feed society and meet its requirements. This positive energy and optimism inspire confidence in our farmers' determination to carry out their jobs with conviction and to ensure our food sovereignty, while remaining in tune with their fellow citizens. SPACE look forward to seeing all from Tuesday 12 to Thursday 14 September 2023 for the next edition of SPACE at the Rennes Exhibition Center! 🇫🇷





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Trouw talks about the Challenges of Tomorrow that need to be addressed Today: Review on Anti-microbial Resistance (AMR) and Gut Health Management

Trouw Nutrition India organized the second season of Trouw Talks in association with Confederation of Indian Industry (CII), focusing on Anti-microbial Resistance, a fast-rising global reality and public health concern, and how right strategies for Gut Health Management today can support the efforts toward responsible usage of antibiotics tomorrow. This time Trouw Talks was completed in three chapters at three locations pan India – starting from Karnal followed by Coimbatore and Bengaluru. All the events were highly successful and had an enthusiastic collective gathering of 300+ including Integrators, Feed Millers, Farmers, Consultants and Academicians.

Karnal chapter on 2 September 2022, was paneled by Dr. R K Singh (Program Director, One Health Support Unit (OHSU), Department of Animal Husbandry & Dairying, GoI and Former Director, ICAR-IVRI), Mr. Ricky Thaper (Treasurer, Poultry Federation of India and VP& Head –

North Zone, IB Group), Dr. Peter Smid (Global Program Manager Feed Additives, Trouw Nutrition Global), Dr. Saurabh Shekhar (Managing Director, Nutreco South Asia), and Mr. Himanshu Saxena (ISM – Feed and Forage, Foss India). The session was moderated by Dr. Chandani Parihar, Marketing Head, Nutreco India and started with Mr. Ricky Thaper setting the context on why there is a need to discuss the topic today and how various strategies can be effectively implemented for reducing usage of antibiotics. Dr. Saurabh Shekhar then went on to explain why Trouw Nutrition, a Nutreco company, decided to bring this initiative and how it is close to our purpose of Feeding the Future. He said that “As global industry leaders, we believe in taking the lead on topics that are critical for sustainable development. AMR is one such topic; we strongly believe, supported by proven results, that nutritional solutions are the first line of defense in keeping animals healthy and productive. Eventually playing an important role in reducing the usage of antibiotics.”






Keynote speaker, Dr. R K Singh while discussing about addressing the local impact of the global reality stated that AMR is a silent pandemic and with increasing multi-drug resistance, it impacts both animal and human health with economic implications. One Health approach of WHO is about bringing multiple stakeholders together with a farm to fork approach.

The presentation of second Keynote speaker, Dr. Peter Smid, included discussion on Gut Health Management for effective strategy to combat AMR. Key highlights from his presentation are:

- By 2050, we can lose 10 million lives per year to AMR making AMR the no. 1 cause of death.
- Over the past years, while consumer and food industry have this topic high on the agenda, there has also been dilemma about the transition.
- Trouw Nutrition focuses on a step by step, integrated Feed-Farm-Health approach when supporting customers.
- An important aspect to this approach is managing the pathogen load via various channels while improving the health of the animal.
- Gut health is esp. critical as it is linked to the overall health of birds, performance improvement and antibiotic reduction.
- Organic acids play an important role in managing the gut health and have been proven under local and global conditions in managing antibiotic usage.

Coimbatore session on 13 September 2022 was chaired by Dr. Jayaraman Krishnarajan (renowned Poultry Consultant), Dr. Natrajan A., (Professor and Head, Animal Feed Analytical and Quality Assurance Lab., VCRI, Namakkal), Dr. Peter Smid, Dr. Saurabh Shekhar, Dr. Ramesh Kumar (CEO, Salem Microbes Pvt. Ltd.) and Mr. Himanshu Saxena. The session was moderated by Dr. Ramesh Kumar and Dr. Natarajan A. set the context for the evening giving a clear brief on how we have seen the anti-microbial resistance progress over the years and how our current actions are going to be important.

Dr. Jayaraman as a Keynote speaker gave the local and global overview of AMR explaining that it is more than a perception and is a reality.

He explained how over the course of time there have been gradual shifts from AGPs as the search for alternatives to antibiotics in food production system continues. His suggestion to the audience was that prepare in advance and ensure to have a framework that is able to mitigate the fast changing outside world. Bengaluru chapter on 16 September 2022 was chaired by Prof. G Devegowda (President, Institution of Veterinarians of Poultry Industry), Dr. S. S. Pattabhirama (Group Nutritionist, Nanda Group), Dr. Peter Smid, , Dr. Saurabh Shekhar and Mr. Bharat Aswani (Managing Director, Foss India). The session was moderated by Dr. Chandani Parihar and Dr. Pattabhirama set the context for the audience on how antibiotic resistance is a growing concern and requires our attention. Prof. G Devegowda was a Keynote speaker for the event and explained about the various sources of AMR emergence. Giving an overview of the various antibiotics that are currently being used in food production system, he explained about the various classes of drugs that are safe for treatment in animals. He further explained on the alternatives of antibiotics like phytogenics, and organic acids which can be instrumental in minimizing the antibiotic consumption. The sessions were followed by an interactive panel discussion and concluding remarks and vote of thanks by Dr. Saurabh Shekhar followed on by felicitation of all the panelists. 



Great Atmosphere at the Heart of Victam Asia and Health & Nutrition Asia and Grapas Asia 2022

VICTAM Corporation and VIV worldwide welcomed exhibitors and visitors from September 7 – 9, 2022 at the IMPACT Bangkok, Thailand for the events Victam Asia, Health & Nutrition Asia and GRAPAS Asia. The three co-located trade fairs focused on animal feed, animal health and nutrition, and the grain and rice processing industries.

“It was exciting to be back in Asia again after the Covid pandemic. The atmosphere at the event was excellent as exhibitors and visitors were glad to be participating at a live event again,” says general manager of the Victam Corporation, Sebas van den Ende. “We were happy to finally welcome all these companies and professionals. A few exhibitors were not able to participate due to the strict Covid rules in their countries, but we provided them with a hybrid

platform so they were able to participate online. The participating exhibitors attended with exciting stands, machinery, and innovations.” “This was a great opportunity for the feed and animal health industry to meet in 2022. The exhibition halls were busy over the three event days, with the top 10 visiting countries being Thailand, India, Philippines, Vietnam, Bangladesh, Malaysia, Indonesia, Korea, Myanmar, and Singapore,” said Birgit Horn, Managing Director VIV worldwide.

Visitors and press were pleased with the extensive range of products on display, especially the newly launched products, the high quality of the exhibition stands and the great networking opportunities onsite. There were 231 exhibitors from 33 countries present. Likewise, the exhibitors were very satisfied with the visitors. The companies

stated that it was great to meet their clients and prospects face-to-face again. The exhibitors also commented on the very high quality of the visitors and the wide range of countries from which they came. Spread over the three show days, there were 6.121 visitors from 64 countries. 90.4% of the visitors were from Asia and 9.6% of the visitors were international visitors (EMEA, America’s, Oceania).

A VIP tour and luncheon were organized at the opening day with key Asian buyers, institutions representatives and local authorities; while a delegation of Korean professionals joined on the second day. On the last day, the show organizers welcomed the management teams of CPF, Betagro, Centaco, Thai Food Group, Thai Vegetable Oil and more.

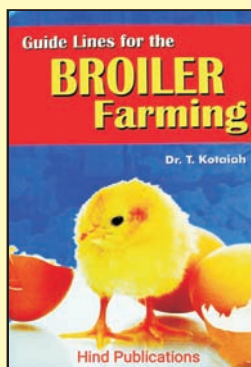
The organizers of VICTAM Asia and Health & Nutrition Asia

were proud to host several conferences and meetings with the cooperation of key industry partners, among which: AFFIA, Aquafeed.com, GMP+, GRAPAS Innovation Seminars, the Thai Feed Mill Association, WPSA, and many others. The different conference organizers stated that the delegate attendance was good and that the delegates have appreciated the quality of both the speakers and their papers.

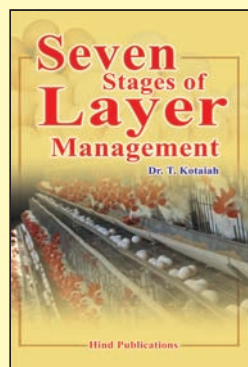
Additionally, several exhibitors like Amandus Kahl, Bioproton, Bühler Group, Clextral, DSM, Evonik, Grain Technik, J E S Innovative, Kanters, Premiartech, and Proteon presented technical seminars during the three show days.

During the event both the Victam Corporation and VIV worldwide announced their upcoming events respectively. The Victam Corporation announced that it will expand its business to Latin America. VICTAM LatAm will be organized from October 3 – 5, 2023 at Expo Center Norte in São Paulo, Brazil. VICTAM LatAm is co-located with GRAPAS LatAm, the event for the grain milling and processing industries and with GEAPS, the biggest and best show in the grain industry! The VIV worldwide organization announced its upcoming events in Jakarta: ILDEX Indonesia, co-located with Aquatica Asia will be held from 9-11 November at Indonesia Convention Exhibition (ICE) this year. Finally, VICTAM Asia and Health & Nutrition Asia and GRAPAS Asia will be back in 2024, March 12 – 14 at the BITEC venue. 🇮🇩

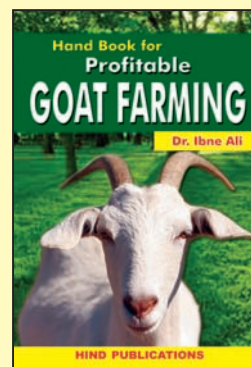
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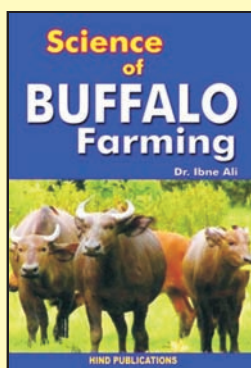
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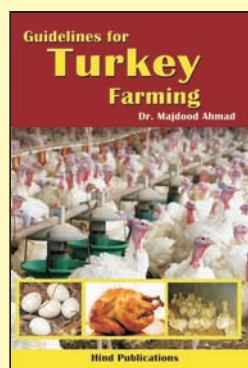
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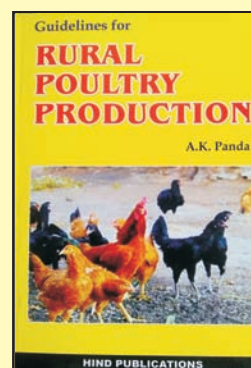
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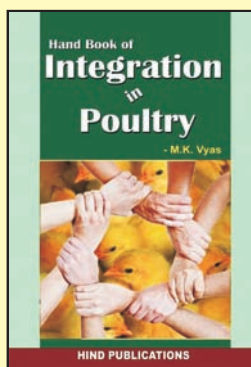
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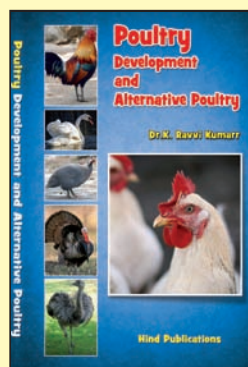
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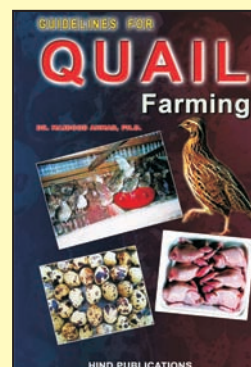
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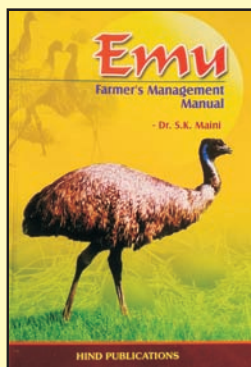
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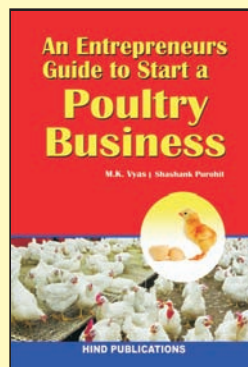
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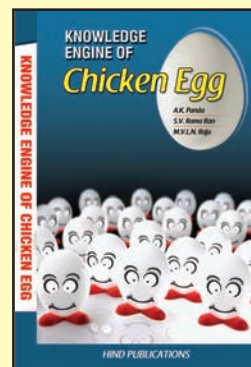
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