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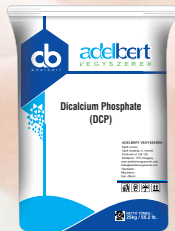
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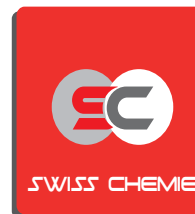
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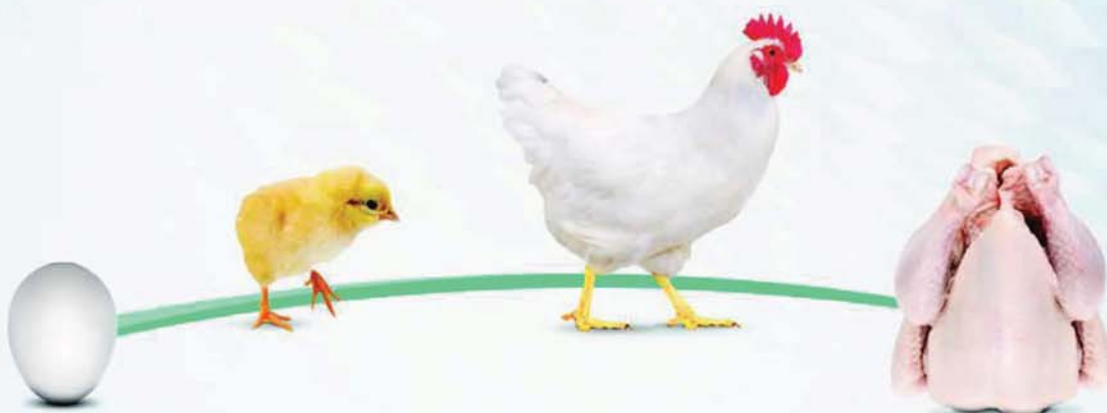


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Diwali - Gold & Peace!

Rising India continues to do well in the economic growth the global scale INDIA is doing great by bringing back 102 tons of pledged gold back from Britain- a sign of great recovery.

The elections in the USA seem to offer limited options for the people to vote as extreme ideologies divide the people with either or choices.

Succumbing to Indian power and strategy by settling for these and withdrawing their armies from the disputed border. This victory is a great milestone in the Indian history but is thorn for other Western countries, who do not wish to see peace between India and China for their own political gains.

Diwali has been great for India due to Victory with China in the border case and bringing back the Gold from Britain.

Terrorism is found in Pakistan, Iran, Iraq, Syria, Lebanon, Yemen All of them once were funded, trained equipped and supported by west as an instrument to be used as a strategy in the cold war against Russia

The West continue to use this strategy against India when they use designated terrorists of India as their own political assets to be used for themselves or against India.

Dual standards need to be called out. The unreasonable bully by the 5 Eyes has driven India to cozy up to 03 Arms of Russia India China- an answer to the 05 eyes.

Politics based on religion will pushback nations to medieval ages- civilization will be pushed back. India was already divided on this basis once and today Pakistani is suffering the consequences. If a particular religion alone brought peace, then the fifty seven countries will live in peace and will not go for each other's throat. This so called minority religion has more than 25 caste division which don't see eye to eye.

To rub Israel on the wrong side is proving costly for Iran and other supported organizations- a heavy price is being paid for such adventure. Gaza, Lebanon and now Iran seem to suffer the wrath of Israel.





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GRAND INAUGURATION OF ADVANCED LABORATORY IN CHANDIGARH



On October 16, 2024, Uttara Impex Pvt. Ltd. proudly unveiled its third state-of-the-art laboratory in Chandigarh, a momentous event that signifies our ongoing commitment to enhance the quality and accessibility of advanced technology for India's poultry farmers. The opening ceremony took place at Hotel Radisson Blu in Chandigarh, attended by a distinguished gathering of industry experts, esteemed guests, and poultry farmers from across Northern India. The new facility represents a significant stride in our mission to drive innovation, and support the farming community by providing cutting-edge technology and high-quality services.



KEYNOTE SPEAKER AND CHIEF GUEST

The event was honored by the presence of Mr. Yusuke Kitagawa San, General Manager of Sumitomo Chemical Co. Ltd., Tokyo, who served as the Chief Guest. His inspiring keynote address highlighted the importance of technological advancements in the poultry sector and aligned with our vision to foster sustainable growth in the industry. Mr. Kitagawa's support and insights added immense value to the occasion, reinforcing the significance of collaboration between international and domestic entities to advance the poultry sector in India.

DISTINGUISHED GUESTS AND CONTRIBUTORS

We were privileged to host a number of distinguished guests who contributed to the event's success through their valuable insights and participation. These included:

- **Mr. Praneeth Rao, Director, Uttara Impex Pvt. Ltd.**
- **Mr. Bharat Aswani, Managing Director, Foss India Pvt. Ltd.**
- **Dr. M.M. Chawak, General Manager, PDRC - Pune**
- **Dr. S.P. Singh, General Manager, VHPL North India**
- **Dr. Rakesh Gupta, PDRC Chandigarh**



Their presence underscored the importance of this milestone and the shared commitment to fostering growth and innovation in the poultry sector.

Laboratory Innovations and Services

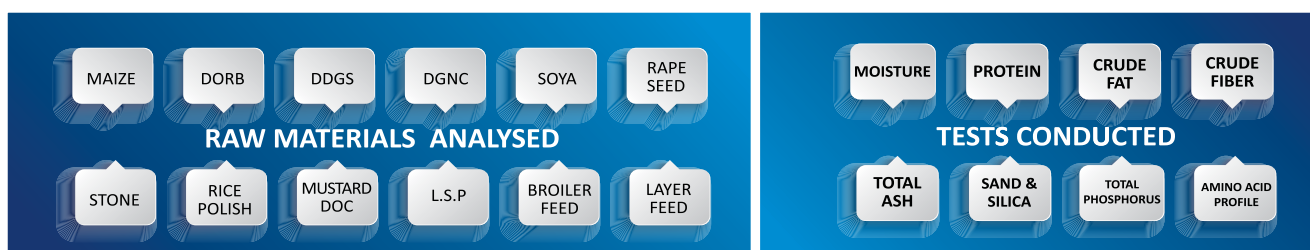
The highlight of the new lab is the installation of the cutting-edge FT Near-Infrared Spectroscopy (FT-NIRS) machine. This advanced technology is used for non-destructive chemical analysis of raw materials, enabling precise identification and quantification of various components. The FT-NIRS system boasts of several key benefits including higher resolution, superior wavelength accuracy, enhanced signal energy, and real-time analysis capabilities, making it a highly reliable tool for the poultry sector.



To ensure the accuracy and reliability of its analyses, the lab utilizes a range of calibration methods, such as:

- Foss Calibration
- Venky's Indian Calibration
- Uttara Impex's Proprietary Calibration

With the collaboration of PDRC Pune, the lab has also developed a robust Near-Infrared (NIR) calibration for proximate analysis, designed to yield accurate results within minutes. This system has been fine-tuned based on extensive research and testing on Indian raw materials.



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Event Conclusion and Future Outlook

The event concluded with a luncheon and presentations, where industry leaders shared their insights on the latest developments and emerging technologies in the poultry sector. We look forward to the new laboratory serving as a center for technological advancements, driving sustainable growth and innovative practices in the poultry farming sector. This facility will be instrumental in Uttara Impex's continued efforts to support the poultry farmers, promote sustainable practices, and facilitate knowledge sharing among experts.

Vets in Poultry (VIP) association's 6th Annual General Meeting (AGM) Concludes Successfully



Karjat, September 25, 2024 – The Vets In Poultry (VIP) association held its Annual General Meeting (AGM) at Karjat, marking another milestone in its journey towards strengthening the poultry industry. The event commenced with the ceremonial lamp lighting by esteemed dignitaries Dr. Ajay Deshpande, Dr C. B. Pathak, Dr. Ajit Ranade, Dr. Girish Kolwankar, Dr. Ravindra Reddy, Dr. Mahindra Singh, Dr. Santosh Ire, and Dr. Vishal Rawat.

The AGM was chaired by Dr. Ajay Deshpande, President of the association, who set the tone for the event. Dr. Santosh Ire, Secretary of VIP, reflected on the association's 5-year journey in his welcome address, presenting the annual report for the last year.

The proceedings continued with Dr. Prasad Kulkarni reading the financial report, followed by Dr. Ajit Ranade, Technical Advisor, announcing the new executive body for the upcoming term. In his presidential address, Dr. Ajay Deshpande outlined the association's objectives and goals for the coming years, emphasising VIP's vision for the future. He also introduced and welcomed the newly appointed committee members.

1. Dr P G Pedgoankar
2. Dr Anju Deshpande
3. Dr B A Pawar

4. Dr Sahebebrao Rathod

5. Dr Anurag Jenna

6. Dr Amol Pawar

After the formal conclusion of the AGM by Dr. Ajay Deshpande, the event moved into technical discussions, initiated by Dr. Amol Pawar, supported by industry veterans such as Dr. Girish Kolwankar, Dr. Anil Phadke & Dr Badgujar. There was enriching a presentation on work-life balance delivered by Dr. Anju Deshpande, addressing the growing need for maintaining equilibrium in the demanding veterinary profession.

Dr. Gunasekhar shared his groundbreaking work on probiotics, showcasing innovation within the industry. This was followed by a presentation on a controlled house project for scientific trials by Dr. Jayashri, which further captivated the audience with its insightful data and results.

One of the event's highlights was the Life Time Achievement Award, presented to Dr. Girish Kolwankar, a visionary leader and stalwart in the poultry industry. The award recognized his relentless dedication, passion, and excellence



throughout his career. In his acceptance speech, Dr. Kolwankar reflected on his professional journey and offered valuable advice to young professionals, inspiring them to thrive in this dynamic field.

The event concluded with a heartfelt vote of thanks by Dr. Onkar Pawaskar, who appreciated the sponsors for their support. The AGM was filled with energy and enthusiasm, as both young and seasoned professionals left with renewed commitment to the association's cause and the betterment

of the poultry farming community.

With every member keen to contribute to providing quality and safe protein to the nation, VIP is poised to scale new heights, ensuring the continued success of the association and the poultry sector as a whole.

Team VIP, appreciate and thanks contribution & support from all stakeholders, sponsors, ViP's various committee members & all supporters.









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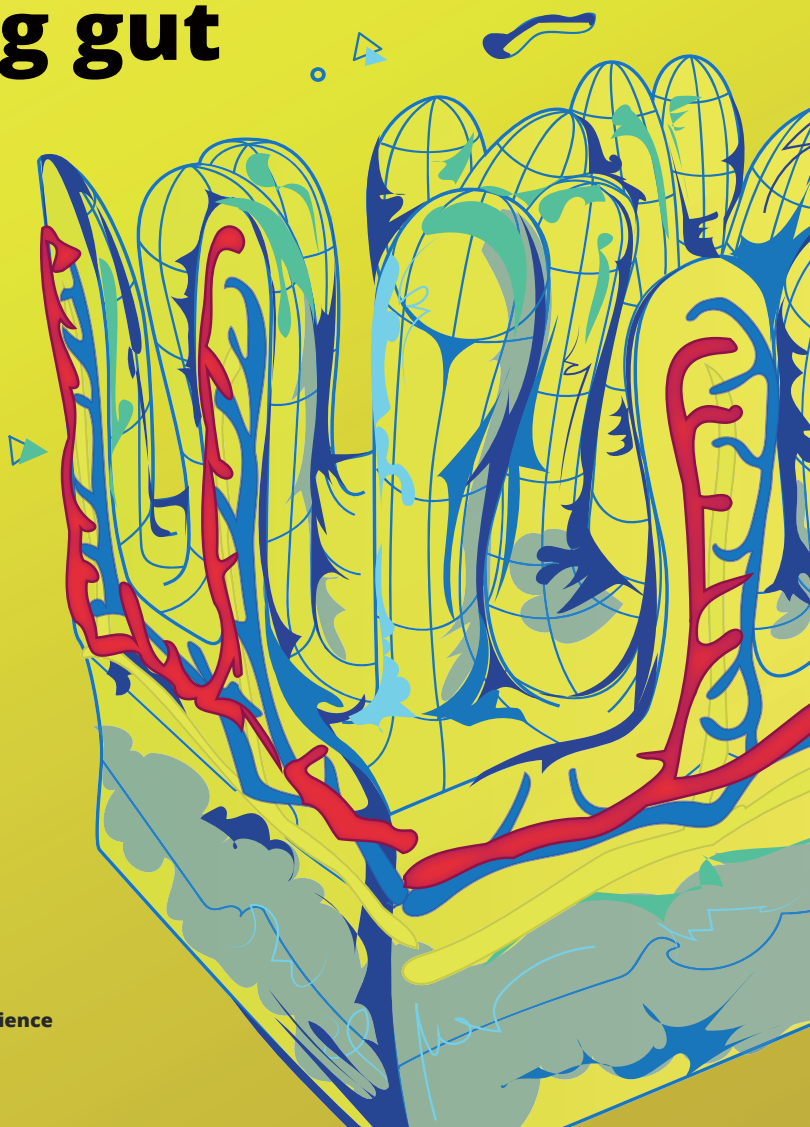
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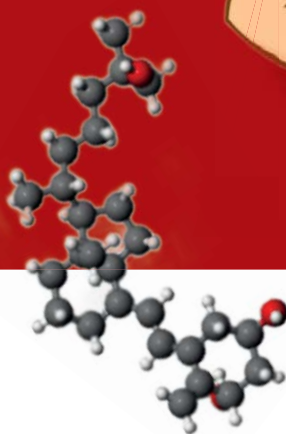
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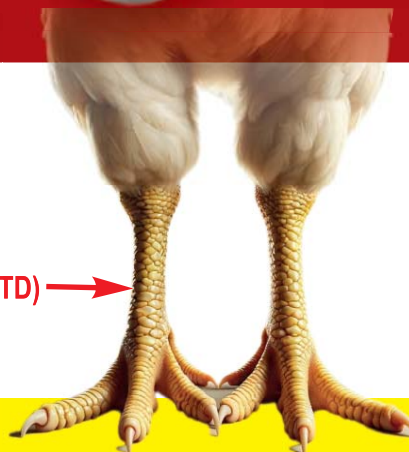


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Welcome to the 1st edition of **AdNex** 2024



AdNex – An initiative by ABTL for the next generation entrepreneurs and innovators for tomorrow...



ABTL organized the **AdNex** 2024 conference, two-day event in the beautiful city of Bengaluru – known as the Silicon Valley of India; as it was the best place for laying the foundation of **AdNex** for all the young technocrats.



The conference featured a series of insightful sessions on the industry overview, challenges & opportunities making a way to build their personal & business brand.



The conference was started by **Mr. O.P. Singh** - Managing Director of ABTL highlighting the poultry revolution of India, structural change towards industry value chain & how to sustain the growth trend. Mr. Singh highlighted on various challenges in the poultry industry along with different strategic partnerships & alliances.

Further moving ahead, the second speaker for the day was **Dr. P.K. Shukla** - Professor & Head, Department of Poultry Science, DUVASU, Mathura. Dr. Shukla highlighted the emerging trends & strategic opportunities in shaping the future of India's food industry. He also focused on poultry - protein production, integrated poultry processing plants & role of different social media platforms.



The 2nd day conference was started by **Mr. Chirag Shah** – Leadership & Business coach. He focused on how to develop personal brand along with their business brand. Mr. Shah also focused on increasing the self-awareness levels and leading with emotional intelligence.



Further moving ahead, the second speaker for the day was Mr. O.P. Singh. He highlighted on the financial frontier's foundation, sustainable profit model, D2C vertical and many more.



The third & the last speaker for the day was **Mr. Tarun Shridhar** – Former Secretary, Ministry of Fisheries, Animal Husbandry and Dairying, GOI. Mr. Shridhar started with the story of Agriculture and Livestock: Origin of Homo Sapiens followed by eggs & meat as a functional food, food safety v/s nutritional security, and showing the overall SWOT analysis.



After each speaker's session an open Q & A session was organized that gave all our participants a chance to raise their queries and the problems, they are facing in their businesses.



The **AdNex** event also gave the young innovators a platform to know, meet and interact with each other, knowing their business models and future aspects.





After two days of inspiring discussions, the **AdNex** conference was concluded by Mr. O.P. Singh's closing remarks and his vote of thanks to all the speakers & delegates who made this conference turn up into a success.

Mr. Sumit Sipany
Assistant Manager - Marketing



NEW TECHNICAL SERVICE MANAGER SUPPORTING GUT HEALTH IN ASIA



BANGKOK, THAILAND (October 17, 2024)—With experience in gut health, hatchability, and eggshell quality, Chavalit

Piriya Benjawat, DVM, is supporting monogastric production throughout Asia.

Piriya Benjawat joined NOVUS this year as the regional technical services manager for Asia to work with the technical and commercial teams as they identify how management best practices and intelligent nutrition solutions can make a difference in animal gut health and performance along with production costs and producer success.

“NOVUS has an effective enzyme and gut health portfolio that helps our customers reduce feed costs while providing better protein digestibility and better gut health for their animals,” he says.

As a veterinarian, Piriya Benjawat has extensive knowledge of gut health, particularly concerning coccidiosis and bacterial enteritis, as well as egg breakout analysis, which helps identify hatchability issues in breeder flocks. He also has experience in swine intestinal health and respiratory diseases.

Prior to joining NOVUS, Piriya Benjawat served as global technical manager for Trouw Nutrition. He earned his doctorate in veterinary medicine from Kasetsart University in Thailand.

“Chavalit has a strong track record in delivering practical and effective solutions to customer pain points,” says Senior Director and Asia Managing Director Rajeev Murthy. “His deep knowledge around animal health is critical for this role where he is overseeing product performance trials, developing our technical service team and supporting our customers in the region.”

To learn how Piriya Benjawat uses intelligent nutrition solutions to support gut health, visit novusint.com.

NOVUS REMEMBERS PIONEERING POULTRY SCIENTIST JULIA J. DIBNER



CHESTERFIELD, MO (October 8, 2024) – NOVUS is remembering a founding member of its research team – and a pillar in the animal agriculture industry.

Julia J. Dibner, Ph.D., passed away the week of September 30, 2024. She

dedicated nearly 30 years to poultry research, many of those spent at NOVUS where she served as director of biology research and then senior research consultant and Distinguished Science Fellow before retiring from the industry in 2014.

She earned her doctorate in cellular and development biology from Washington University in St. Louis, Missouri in 1980. She was first employed by the Monsanto Company and moved to work for NOVUS when the company was created in 1991.

Authoring over 140 research papers and having presented at conferences and seminars around the world, Dibner's cutting-edge work touched nearly every part of the animal nutrition additive and health industry. Her research included 2-hydroxy-4 (methylthio) butanoic acid (HMTBa), organic acids, antibiotic growth promoters, trace minerals, bone and tissue development, gut health, oxidative balance, early nutrition, nutrient formulation, and pathogen challenge trials. While primarily focused on poultry, her studies also included swine and ruminants.

Dibner collaborated with universities and institutions, many in the United States, including The Ohio State University, University of Arkansas, Virginia Tech, Rowett Institute of Nutrition and Health at the University of Aberdeen, Agriculture & Agri-Food Canada Research, North Carolina State University, Stephen F. Austin State University, and the University of Missouri-Columbia. Her findings are still used by the research and industry communities globally.

Her dedication to animal research resulted in many patents, as well as the development of groundbreaking products ALIMET® Feed Additive, MHA® Feed

Additive, MFP® Feed Supplement, MINTREX® Bis-Chelated Trace Mineral, ACTIVATE® DA Nutritional Feed Acid, and former NOVUS products OASIS hatchling supplement and SANTOQUIN®. She also helped develop the coccidiosis vaccine ADVENT®.

She received numerous awards and recognition for her scientific achievements. She was repeatedly recognized with nominations to Monsanto's Science Fellow program and served as NOVUS' first Distinguished Fellow. In May 2003, a jury of scientists and technology experts from Washington University and St. Louis University in the United States awarded her the St. Louis Technology Award for her contributions to coccidiosis control.

She also served as an associate editor for the international journal Poultry Science.

As one of the few women in the industry in the 1980s, Dibner was a mentor to future industry leaders and advocated for women to pursue a career in science.

NOVUS President and CEO Dan Meagher, who worked with Dibner when he was president of global animal nutrition solutions at NOVUS, says Julia was an invaluable member of the NOVUS family and the entire animal agriculture industry.

"Julia is a prime example of an intelligent, innovative, enterprising, dedicated scientist whose ingenuity sparked new areas of study," he says. "She worked with partners around the world who held her in the highest esteem and her legacy is with us today in her research and our intelligent nutrition solutions. On behalf of the NOVUS team, I want to express my heartfelt gratitude and sympathy to her family and those who knew her."

NOVUS is the intelligent nutrition company providing solutions for the global animal agriculture industry. The company's portfolio includes bis-chelated organic trace minerals and methionine feed additives, along with a network of experts worldwide to provide guidance on management best practices.

For information on how NOVUS supports the animal agriculture industry, visit www.novusint.com.

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★ Weeks Above 90%	:	49
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NOVEMBER 2024



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- Prevents fatty liver syndrome (FLS) and fatty infiltration, improves the integrity of hepatocytes, and optimizes liver function.
- Reduces carcass fat content and promotes lean meat production.
- Optimizes growth, feed conversion rate (FCR), egg production, livability, and hatchability.
- Aids in maintaining brain and nerve nutrition and improves neurotransmission.
- Helps prevent perosis and leg weakness.
- Assists in optimizing lipid and carbohydrate metabolism and improves energy utilization.

Mixing Ratio:

Broiler/Layer: 500g per ton of feed or as per nutritionist/veterinarian guidance*
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*500gm of HimChol-P can replace 1kg of synthetic choline chloride (60%)

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On October 15, 2024, Optima Life Sciences hosted an engaging Technical Seminar with Topic “Understanding Causes of Lameness Incidences in Poultry and Strategies to Minimize it” at Amanora the Fern Hotels & Club, Pune.

The seminar was attended by more than 125 participants, primarily from the Poultry Farmers and Breeders Association (MH), along with prominent figures from the poultry industry across India.



The Seminar opened with an impactful presentation by Dr. Nivedita Pande on addressing lameness in poultry. This session delved into the use of analytical epidemiology as a tool to detect lameness. Dr. Pande shared the results from a clinical controlled trial (CCT), adjusting parameters based on findings from pilot and

subsequent studies.



Dr Nivedita Pande

This research aims to offer practical guidelines for reducing lameness in broilers raised in commercial settings, enhancing both health and productivity. The study identified several key diagnostic indicators strongly associated with lameness, including elevated heterophil-to-lymphocyte (H/L) ratios, high serum phosphorus, and low levels of zinc and boron. Significant correlations were also noted between body weight, femoral length, bone curvature, and lameness. Dr. Pande highlighted the potential for future studies to predict subclinical lameness, enabling early intervention.



Dr U.C Patel

Following Dr Pande's presentation, Dr. U.C. Patel expert Nutritionist provided insights into the metabolic causes of lameness and the economic impacts of leg weakness. He emphasized the importance of mineral balance, particularly the relationship between

calcium, phosphorus, and phytase, in preventing lameness. He also added that once lameness appears in a flock, simply increasing calcium and phosphorus is insufficient without addressing other underlying factors. He advised that mineral sources should be carefully analyzed for content and bioavailability.



Dr. CV Chandrasekaran

Dr. CV Chandrasekaran, VP, Optima Life Sciences concluded by highlighting the role of improving calcium and phosphorus digestibility in reducing the risk of lameness. In light of these discussions, Optima Life Sciences introduced Ozyme P Advance, a potent combination of potentiated phytase and boron. This product boasts unique features, including 10% higher activity than conventional phytase enzymes (measured in FTUs), protection against denaturation, and enhanced stability for a longer shelf life. With this innovative product launch, Optima Life Sciences aims to significantly contribute to the poultry industry by helping prevent lameness and improving overall flock health and productivity.



Mr. Vinay Kulkarni and Ms. Sakshi Kulkarni

The Seminar, expertly organized by Director, Ms. Sakshi Kulkarni and study facilitated by Mr. Vinay Kulkarni, Executive Chairman, Optima Life Sciences concluded with a sense of optimism, setting the stage for further advancements in poultry health management.

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Optima Life Sciences Inaugurates New State-of-the-Art Manufacturing Facility in Jejuri, Pune, Maharashtra.

Optima Life Sciences proudly announces the inauguration of its new manufacturing facility in Jejuri, a landmark achievement that underscores our commitment to innovation, quality, and community engagement in the animal sector. The facility was officially opened on 16th Oct 2024 in a ceremony attended by industry leaders, local government officials, and valued business partners.



Expanding Production Capacity

The newly inaugurated facility spans 4.5 acres and is equipped with cutting-edge technology designed to enhance production efficiency and quality. This facility represents a significant investment in our operational capabilities, allowing us to scale our manufacturing processes to meet the increasing demand for our products.

The Jejuri facility features:

- **Advanced Nauta Mixer Technology:** This state-of-the-art 6 MT/Hr mixing solution enables precise ingredient integration, resulting in consistent and high-quality formulations with CV less than 0.1%.



“Our new plant in Jejuri is a game changer for Optima Life Sciences,” stated Mr. Vinay Kulkarni, Executive Chairman of Optima Life Sciences. “With advanced manufacturing capabilities and a commitment to quality, we are well-positioned to serve our customers better and respond to market needs with agility.”

Advanced Technologies and Processes

- **Fully Pneumatic Transfer System:** This automated system enhances efficiency by transporting materials without manual handling, minimizing contamination risks and improving safety.
- **Auto Bagging and Heat Sealing System:** This innovative packaging solution ensures accurate filling and secure sealing of products, enhancing shelf life and product integrity.



- **Rack Storage System:** With a capacity of 750 MT, this system allows for efficient and organized storage of raw materials and finished goods, streamlining inventory management.
- **Quality Control Systems:** 310 Sq. Mt. Fully Equipped Laboratory ensures rigorous testing and monitoring systems are in place to maintain the highest standards of product safety and efficacy.



- **Research and Development Labs:** Dedicated spaces for R&D will facilitate the development of new and innovative health products, driving our commitment to continuous improvement.

Commitment to Sustainability

Optima Life Sciences recognizes the importance of environmental stewardship. Our Jejuri facility incorporates several sustainable practices, including:

- **Energy Efficiency:** The plant utilizes energy-efficient machinery and renewable energy sources to minimize its carbon footprint.
- **Waste Management:** Effluent Treatment Plant for Sewage Water Treatment with capacity of 25KL
- **Water Conservation:** Advanced water recycling systems are in place to reduce water usage and promote sustainability in manufacturing processes.

Our Plant Certifications

GMP - Good Manufacturing Practise Certified

HACCP – Hazard Analysis Critical Control Point Certified

ISO 22000 – 2018 – Food Safety Management System Certified

FAMI QS - Feed Additives and Premixtures Quality System Certification is focused on ensuring the quality and safety of feed additives and premixtures throughout the production process.

Future Outlook

With the inauguration of this GMP, HACCP, ISO, and FAMI QS certified facility, Optima Life Sciences is poised for growth and innovation in the animal nutrition and health sector. This expansion enhances our ability to develop and produce a wide range of health solutions, ultimately benefiting our customers and communities.

“As we look to the future, we are excited about the opportunities this facility presents for our company and the positive impact we can have on health and wellness globally,” added Mr. Vinay Kulkarni.

Optima Life Sciences Celebrates World Egg Day with Matoshri Ramai Ambedkar Primary & Secondary Residential Aashram School in Pune

In a heartwarming celebration of World Egg Day, Optima Life Sciences, a leading name in poultry nutrition and healthcare, joined hands with Matoshri Ramai Ambedkar Primary & Secondary Residential Aashram School in Pune, an institution dedicated to supporting children from single-parent families and those with limited access to education.



The event began with the distribution of boiled eggs, symbolizing the nutritional value of this affordable superfood. Dr. Swapnil Survase delivered an engaging speech, focusing on the health benefits of eggs as a rich source of protein essential for the students' growth and development. The distribution of boiled eggs represented not just a celebration, but a commitment to the children's overall well-being and proper nutrition.



In addition, Optima Life Sciences also provided the students with drawing kits, aimed at enriching their educational journey and promoting creativity. Dr. Kalyani Sarode expressed her gratitude for the opportunity to make a meaningful impact on the lives of the students. Taking the cue from chairman

of Optima Life Sciences, Vinay Kulkarni, he stated, "We believe in the power of education and good nutrition to transform lives. This collaboration on World Egg Day underscores our commitment to fostering positive change in our community."



Optima Life Sciences remains committed to its mission of enhancing the well-being of communities through meaningful and impactful initiatives. Their commemoration of World Egg Day with the Matoshri Ramai Ambedkar Primary & Secondary Residential Aashram School highlights their dedication to creating positive change.



Srinivasa Hy-Line Technical Seminar 2024

Srinivasa Hy-Line Technical Seminar 2024 - "Maximizing Profitability & Performance of Egg Farming" has conducted at Palm Exotica, Hyderabad from Oct 16th to Oct 18th, 2024. We are excited to announce the successful completion of the Srinivasa Hy-Line Technical Seminar. This exclusive event brought together Indian poultry industry thought leaders, the global Hy-Line International team, industry experts, and top consultants to discuss groundbreaking insights aimed at enhancing the productivity and profitability of the Hy-Line W-80 in India.

The seminar featured esteemed speakers from Hy-Line International, including:

- Mr. Jonathan Cade, President-Hy-Line International
- Dr. Daniel Alberto Valbuena Hernandez, Global Technical Manager - Hy-Line International
- Dr. Petek Settar, Applied Geneticist- Hy-Line International
- Mr. Vitor Arantes, Global Technical Service Manager- Hy-Line International
- Mr. Thomas Dixon, Global Product Manager- Hy-Line International
- Dr. Ravindran Marimuthu, Technical Manager- Hy-Line India

These industry leaders provided valuable insights into the latest developments in egg production and

Hy-Line genetics, sharing record-setting benchmarks and performance standards that are shaping the future of the industry.

In addition to the Hy-Line team, presentations from renowned companies such as Vaksindo Animal Health Pvt. Ltd, dsm-firmenich Animal Nutrition & Health, Kemin Animal Nutrition & Health | Asia Pacific, Cargill Animal Nutrition & Health, ew Nutrition, Nova-Tech Engineering and Mr. Ashok Mandava, Managing Partner, Vijayanagar Egg Farm contributed significantly to the discussions. Dr. Chandrasekaran, Dr. S.V. Rama Rao and Dr. Jayaraman have moderated different sessions and facilitated insightful discussions that engaged all participants.

We extend our heartfelt gratitude to our partners: Vaksindo Animal Health Pvt. Ltd, dsm-firmenich Animal Nutrition & Health, Kemin Animal Nutrition & Health | Asia Pacific, Cargill Animal Nutrition & Health, ew Nutrition, Nova-Tech Engineering, HIPRA, Tara Group & Virbac.

Your collaboration is driving innovation in Indian egg farming and we are proud to work alongside you in this journey.

The seminar concluded with a strong commitment to reshaping the future of egg farming in India, setting new industry standards, and fostering progress in poultry farming.







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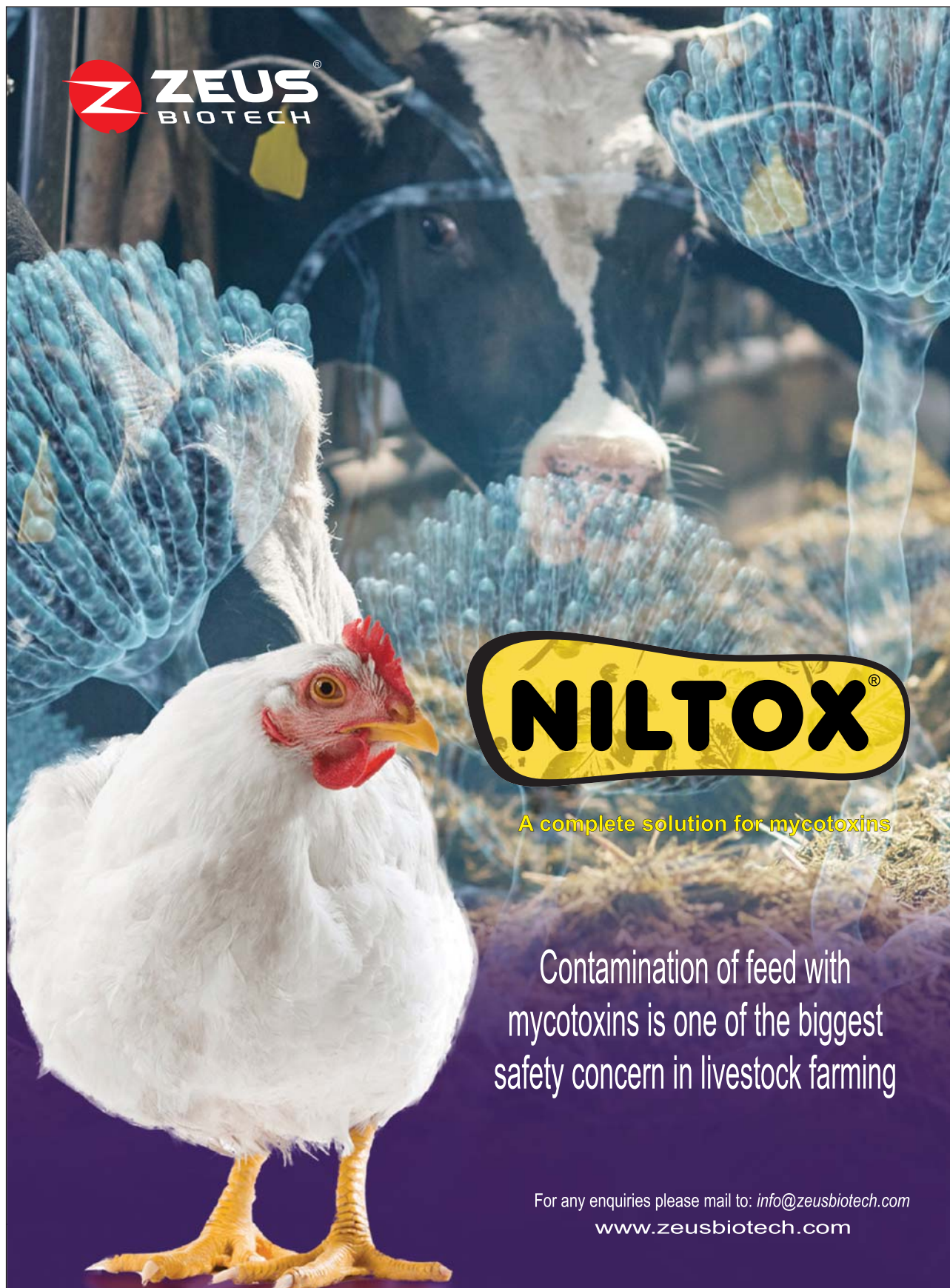
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Feedback of India Poultry Expo 2024 at Belagavi, North Karnataka

Dear Shivshankar,

Congratulations for organising India Poultry Expo 2024 at a remote place Belagavi, where no one till date neither focussed nor dare enough to organise despite all odds.



You did a commendable job to bring the expo In Belagavi which has a good size of small and medium size of poultry population.

The Expo was very well organised, and you have invited all the reputed persons in the industry including Govt officials, the President, Khanapur Poultry Farmers Association at one platform to interact with the farmers who visited the expo out of enthusiasm and keen interest to note the developments of the industry and share the knowledge through technical seminars.

The topics selected for the technical session was well designed and the farmers shown much interest to interact with the topics and gained the knowledge through them.

This expo has benefitted to the small and marginal farmers who visited from Goa, Maharashtra and surrounding pockets of North Karnataka, Northern parts of India, Tamilnadu, Andhra and Telangana.

I wish you all the best for future endeavours and hope you cover the expo to all rural centres of the nation and bring innovative ideas and technology closer to them.

With warm regards,
Vasanthkumar C Setty

Founder President,
Poultry Farmers & Breeders Association (MH),
Convenor, Pan India Broiler Coordination
Committee.
(M): 98607 58235

Thank you Shivshankarji, (Tezasvi events) for arranging such wonderful exhibition/ event, first of it's kind in Belagavi, which brought Poultry farmers in Belagavi region and suppliers/manufacturers of various poultry farm equipments and medicines of all India Level on same platform.



This definitely helped poultry farmers to know about latest technologies used in poultry farming and its availability in the market. Technical

seminars also add latest knowledge in farmer's and Technical personals involved in Poultry farming which will help them to improve their profitability.

Exhibitors also got good platform to market their brand/ product directly to end user.

Dr Madhukar Pawar, 9379519865
President,
Kwaliti Animal Feeds Pvt Ltd.,

My heartfelt congratulations to Organisers of India Poultry Expo 2024, Belgaum.

It was indeed a successful attempt by TezasviEvents to deliver Padmashree Dr B V Rao Sir's dream to connect grass route level poultry farmers & add value to their life.



Though its 1st expo, but participation from entire poultry from the region was mesmerising. Good stall holders & quality topics with eminent speakers are key highlights to show.

We wish to happen it alternate or every year.

Warm Regards,

Dr Santosh Ire,
Secretary, Vets In Poultry (VIP)
(M):98509 79652.

Dear Mr.Shivshankar,

Kudos for organizing such a wonderful first ever poultry expo in Belagavi, North Karnataka. In each & every aspect, it was a wonderful show. Your vision to organize poultry expo in upcoming poultry pockets in Bharat is really appreciable. It was a dream of Padmasri Dr.B.V.Rao, to convey modern scientific knowledge of poultry farming in remote areas of Bharat to make Bhartiya poultry no.one in world & you are doing so.



Right from the opening ceremony to valedictory function, it was a marvellous show. It was your 25th expo means Silver Jubilee Expo, and wishing you all the best for your Golden Jubilee Expo.

An amazing footfall on 2nd day was there. After a long time, I have seen such a wonderful farmers crowd in Technical Seminar. It showed the eagerness of farmers towards getting the knowledge about successful poultry.

All the exhibitors were very happy, satisfied and appreciated the footfall. Those poultry companies who haven't participated in the expo were expressing regrets that they have missed the opportunity.

Overall, the expo ended with satisfactory note. As an anchor, as a poultry consultant, as a President of People for Poultry Welfare Society, Chhattisgarh, I congratulate you for everything and warm wishes for your upcoming expo.

Thanks & Regards

Dr. Manoj Shukla, Poultry Consultant

P: 8770013350

Dear Shivshankar sir. Good Afternoon.

My report on the recently held poultry exhibition at Belgaum Karnataka.

This exhibition was held at Belgaum, where the place is hub for Dharwad, Hubli, Bagalkot, Jamkhandi, Sankeswar, Miraj, Sangili, Khanapur and Goa. From all these places people have visited and more importantly, big breeders, integrators and small farmers which are scattered all these places. Hats off to Mr Shivshankar ji and Dr Manoj Shukla ji for the success of this event.

This is a phenomenal and good gesture that, this exhibition was conducted where, nobody had the guts to promote this kind exhibition at the place where lots of Breeders, Integrators, Layer farmers were able to visit at their doorstep. Many people of this area would not be able to visit exhibition at Hyderabad. People were so happy that, Mr Shivshankar's effort and thinking of reaching even remote areas like this.

This concept was earlier, mooted by Dr B V Rao, for reaching his birds every nook and corner of this country. With this, I would say, exhibition was total success and I wish same way, near future. This kind of exhibition should be conducted where, the poultry industry is growing and developing -Thanks.

N D Krishnappa, 9448068624

DGM – Marketing, Varsha Group, Bangalore.



Belagavi, North Karnataka, an important poultry belt. 1st time a poultry expo was organised.

It was well attended, and technical seminar attracted good farmer crowd. Farmers were happy especially broiler farmers with technical guidance they received and got a chance to interact with consultants.

Good luck Mr Shiv Shankar for future events too....

Dr Dharendra Kumar M: 9814484248

President, Vesper Group,



The exhibition at Belgaum was a great opportunity for the exhibitors and visitors as it is the first exhibition in Belgaum. I congratulate Mr. Shivsankar for identifying under privileged poultry packets which need such exhibitions to educate the farmers in their fields and become successful farmers.

This exhibition has surely inspired the farmers of that region and request that such exhibitions should be carried out regularly.

The exhibitors looking for new areas to explore. This will be the best opportunity which they should make use of.

Mr Rex Christiraj M: 9443227100

S.S. Agrow Tech,

Sir,

For the first time, "Komarla Agrovet decided to put the stall in Tezasvi Events, Hyderabad. Our Managing Director and General Manager also initiated me to take part in the expo with the help of our team.

The expo was a grand success. Near about 1500 farmers visited from Nippani, Ajra, Hubli, Sankeswar, Gokak, Gadinglaj, Chikkodi, Athani, Khanapur and made use 100% from the expo. They have taken useful information to implement in their respective farms.

Vishak Kulkarni,

Komarla Agrovet, Miraj. (M): 95455 52621



The Successful of India Poultry Expo 2024 at Belagavi, North Karnataka



The Poultry Expo 2024, held in a memory of late Shri B. V. Rao, the father of the poultry industry in India, was a remarkable success. The event took place at the magnificent Gandhi Bhavan on College Road, right in the heart of Belagavi city. Poultry farmers from a 200 -kilometer radius benefitted greatly from the expo. A key factor in the event's success was the organiser's wise choice of location. Belagavi's geographical significance, being close to Goa and Maharashtra, along with its favourable weather conditions, are conducive to the poultry industry's growth. The expo provided valuable insights into challenges faced by existing farmers while offering promising prospects for newcomers. It attracted a good number of visitors from all parts of the Karnataka State and made the expo a grand success. People from the neighboring states of Goa, Maharashtra, Gujarat, Lucknow, Northern parts of India, Andhra and Telangana

States witnessed the expo which we feel the testimony of our commitment and mission to carry forward the poultry for all and the benefits should reach nook and corner of the rural India and we did not disappoint them either.

The event witnessed a grand opening with lighting the lamp by the auspicious hands of the below mentioned dignitaries.

Shri Sanjeev Shamrao Deshpande, Director, Quality Animal Feeds Pvt. Ltd. Belagavi was the Chief Guest of the expo, Shri C. Vasant Kumar, Founder President, Poultry Farmers' and Breeders' Association, Convenor, Pan India Broiler Co-ordination Committee, Dr. Rajeev N. Kuler, Dy. Director (Admin), Department of Animal Husbandry and Veterinary Services, Belgaum District., Dr. Madhukar Pawar, President, Quality Animal Feeds Pvt. Ltd., Shri Gangadhar G.E., President, Khanapur Taluka





Poultry Farmers' Association and Dr Santosh Ire, Secretary, Vets In Poultry (VIP) were invited on to the dais as guest of honors and Mr B V Shiv Shankar, organizer, India Poultry Expo invited all on to the dais. He introduced every guest and talked about the objectives of Tezasvi Events.

ABOUT INDIA POULTRY EXPO: The India Poultry Expo began its journey in 2004 with the sole aim of serving poultry farmers in rural areas, where the heart of real farmer resides.

We are committed to the vision of the late Padmashri B.V. Rao, who believed that rural farmers are the backbone of the poultry industry. Our focus is on empowering these communities, which, despite their significant size, often remain unrepresented and underserved. Many of the latest trends and advancements in poultry farming do not reach them for various reasons, and we have taken it upon ourselves to bridge this gap through our periodical exhibitions. Our efforts have been widely recognized, and each expo successfully reached those in need in rural areas. The ongoing support we receive at every expo is a testament to our mission.



The concept of organizing expos in rural areas has generated tremendous enthusiasm, leading us to increase the frequency of our exhibitions from once a year to twice a year to meet demand.

To date, we have successfully organized 24 editions of the expo in various locations across the country, including Vijayawada, Namakkal, Hyderabad, Rajahmundry, Raipur, Patna, Lucknow, Gorakhpur, Guwahati, and Nashik. We are now excited to announce the debut of our 25th edition (Silver Jubilee), which will take place in Belagavi, Karnataka.

Belagavi is strategically located at the border of Karnataka, Maharashtra, and Goa, making it a central hub for surrounding areas such as Miraj, Sangli, Satara, Karad, Vita, Athani, Islampur, Kolhapur, Azra, Gadhinglaj, Sawantwadi, Jamkhadi, Raibagh, Chikodi, Sankeshwar, Dharwad, Gadag, Hubli, Bagalkot, Gudur, and Guledgudd. The enthusiasm from these regions is exceptionally high, and we anticipate a significant turnout of farming visitors, which will undoubtedly enhance the event's success.

The event was further enhanced by the





engaging anchoring of Dr Manoj Shukla, Poultry Consultant, Raipur, who added a touch of flair with his shayaris.

Speaking on the occasion, Shri Sanjeev Shamrao Deshpande, Director, Quality Animal Feeds Pvt Ltd., appreciated Tezasvi Events for organizing such a significant Poultry Expo in Belgaum, which was much needed. He elaborated the industry's progress since he began his business in Belgaum, highlighting the region's favourable weather and geography for poultry farming. He emphasized the crucial support from the Animal Husbandry Department and requested the organizers to continue hosting such events in Belgaum, a suggestion that was well received.

Shri C. Vasant Kumar noted that although there are fewer consumers in Belgaum, many people are engaged in poultry farming, and the favourable weather indicates that the industry will likely see substantial growth in the next five



years.

Shri Gangadhar G.E., President, Khanapur Taluka Poultry Farmers' Association appreciated the decision of Tezasvi Events in conducting such expo in Belagavi and wished wholeheartedly for the grand success of the same.

Dr. Santosh Ire spoke highly of Shri B.V. Shivashankar Ji's commitment to realizing Shri B.V. Rao's vision by integrating poultry into rural communities, particularly in regions like Belagavi. He noted Shivashankar's focus on areas such as Guwahati, Lucknow, and Nashik, where the poultry industry is thriving, and congratulated him and his team for their efforts.

Dr. Ire further explained that VIP (Vets In Poultry) is a global association of over 200 veterinarians and 400 registered members. As a technocrat organization, their mission is to provide scientific knowledge and data to ensure the quality of key products like chicken and eggs. They tackle industry challenges through walkathons,





awareness programs, and press conferences. Over the past year, they've collaborated with the IMA, the country's largest medical association, to conduct impactful activities that connect industry stakeholders, producers, and policymakers.

Recently, they addressed concerns about compensation for influenza vaccination, with their research-based recommendations currently under government review. Additionally, Dr. Ire announced the launch of a dedicated YouTube channel focused on scientific poultry practices, reinforcing their commitment to quality production.

Following the opening ceremony, the dignitaries inaugurated the stalls with a ribbon-cutting ceremony. Guests showed great enthusiasm in visiting each stall to engage in meaningful interactions with the stall owners.

The Second Day began with a technical session. As usual Dr Manoj Shukla was the convenor for



the session. The farmers took keen interest in the presentations made by the speakers as under:

1. Achieving One Health from Water Health by Dr Santosh Ire, Secretary, Vets In Poultry (VIP), Pune.
2. Effective Control of Diseases in Commercial Broilers in Belagavi and Ajoining Areas by Dr S R Anand, Director, Anand Animal Health Pvt Ltd., Anand, Gujarat.
3. Managing Chronic Respiratory Disease (CRD) in Broilers by Dr Dharendra Kumar, President, Vesper Group, Bengaluru.
4. Good Management Practice (Broiler) by Dr Krishna V Poul, Komarla Agrovet, Bengaluru.
5. Toxicity – A big challenge in Poultry Farming by Dr Manoj Shukla, Consultant, Raipur.

At the end of each session, the speakers were honoured with flower bouquet, a shawl and





mementos by the organiser and Dr Manoj Shukla.

The day three was witnessed with a colourful valedictory function wherein all the exhibitors, media personnel, reporters, photographers, videographers, caterers, sound personnel, and key contributors who made the event a success were felicitated with bouquet, shawl, and memento, which brought happiness to the contributors.

Opinions of the Visitors:

- Janakraj Devarkondmath, Daastikoppa Mutt: Swamiji, who runs a poultry farm, expressed satisfaction with the information and materials available at the event. He found them to be of great help and noted that the event reminded him of the recent Dharwad Krishimela.
- Narayan Nalawade, Ex-Taluk Panchayat Member, Belavatti: (9379033636) He expressed extreme gratitude to the organizers



for hosting such an event in Belgaum, noting that it is challenging for local farmers to travel to bigger cities for similar events and to cover the associated expenses. The event was surely beneficial for the adjacent talukas, including Bailhongal, Khanapur, and Savadatti.

- Dr. Josefa, Homeopath: She described the expo as very systematic, showcasing all tools, machinery, materials, and medicines related to the poultry field without causing any confusion.
- Shri Mahantesh, Poultry Farm Owner, Belgavi: He was enthusiastic about acquiring necessary information and the latest developments in the poultry sector, receiving satisfactory clarification regarding the problems he currently faces. He emphasized the ongoing necessity of such expos.
- Santosh Patil, Young Poultry Owner: He





gathered essential and precise information from the seminars about proper hygiene maintenance, disease intervention, and feed preservation, which he shared with his teammates.

- Amol Patil, Poultry Owner: He expressed pride in the expo happening in his district for the first time and thanked the local poultry-related companies and Tezasvi Events. He credited his success in poultry to the quality materials supplied by Kwaliti Animal Feeds Pvt Ltd and Kittur Chennamma Hatchery.
- Yallappa, Farmer: Currently a farmer, he stated that the information and support he gained at the expo increased his interest in poultry, and he is eager to start a poultry venture in the coming days.
- Shruti Desai and Her Husband: Both were pleased that such an event took place in Belgaum. They left with satisfactory, precise



information and cleared doubts about poultry, which they had been lacking. They are now enthusiastic and capable of starting a farm as soon as possible.

- A Young Visitor: He was happy to see a larger crowd on the second day compared to the first and expressed gratitude for the information he collected from the speakers at the seminar.

A very intimate and friendly environment fostered clear interactions over the three days.

The organisers expressed their sincere gratitude to the management of Kwaliti Animal Feeds Pvt Ltd., Belagavi for its all-out support in making the expo a grand success in this region. The organisers also sincerely expressed their gratitude to all the exhibitors for their patronage and participation and felt that but for their participation, the expo would not have been a grand success. The expo ended with a satisfactory note.



Technical Session of India Poultry Expo-2024



Dr. Santosh Ire on Achieving one health from water health



Dr. Santosh Ire honored by B.V. Shiv Shankar



Dr. S R Anand on Effective control of diseases in commercial broilers



Dr. S R Anand honored by B.V. Shiv Shankar



Dr. Dharendra Kumar on Broiler-Managing CRD



Dr. Dharendra Kumar honored by B.V. Shiv Shankar



Dr. Krishna V Poul on Good Management practice (Broiler)



Dr. Krishna V Poul honored by B.V. Shiv Shankar

Technical Session of India Poultry Expo-2024



Dr. Manoj Shukla on Toxicity a big challenge for Poultry



Dr. Manoj Shukla honored by B.V. Shiv Shankar



Shri Hiranyakeshi Feeds And Farms Pvt Ltd
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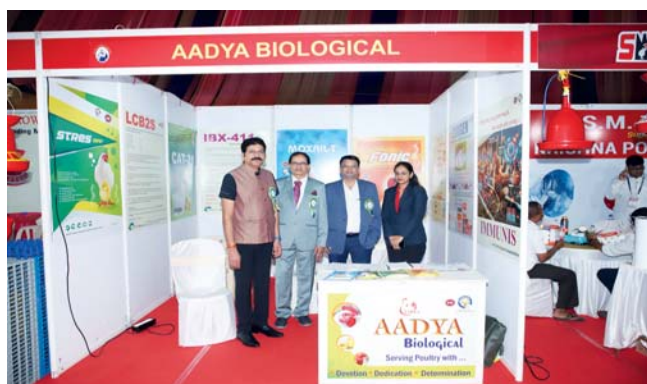
Visiting the Stalls by Tezasvi Team



Visiting the Stalls by Tezasvi Team



Visiting the Stalls by Tezasvi Team



India Poultry Expo-2024, Belagavi



Varsha Multitech receiving the memento



Visaka Industries receiving the memento



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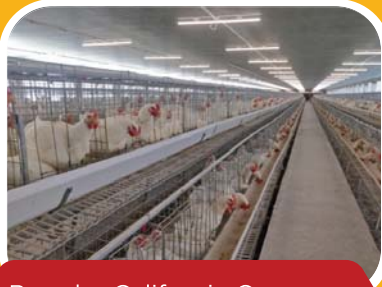
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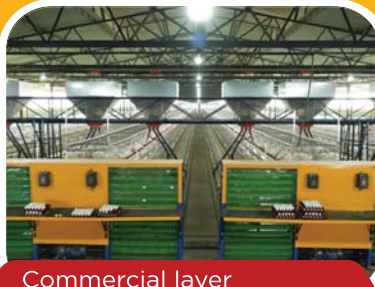
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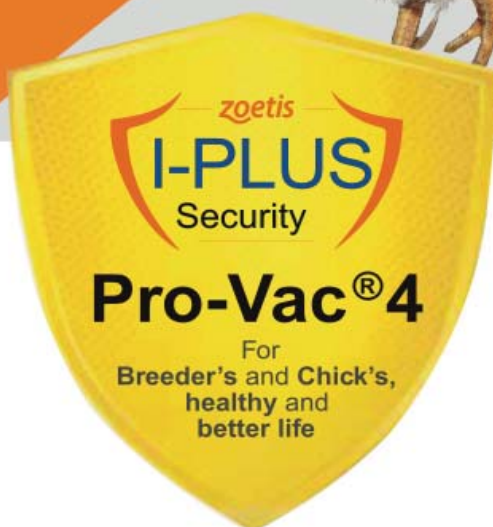
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Poultry Federation of India

PRESS NOTE

Dear Sir/Madam,

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 35th Annual General Body Meeting (AGM) at Hotel The Leela, Gurugram on 27 - 28 December, 2024.

Sponsorship:

PFI requests you to be one of the key sponsors at PFI 35th Annual General Body Meeting. There are Six categories of sponsorship:

Categories	Sponsorship Amount (Rs.)	Complimentary Registration	No. of Tables	Speaking Time (Mins.)	Complimentary Room
Super Platinum	10,00,000	12	3	40 mins on Day 1 + 10 mins on day 2	2
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Diamond	4,00,000	8	2	15 mins on Day 1	-
Gold	3,00,000	6	2	-	-
Silver	2,00,000	4	1	-	-
Bronze	1,00,000	2	1	-	-

In addition to the above deliverables, the Sponsoring companies can display their advertisements in form of standees/ banners on the prominent locations. Table space will also be provided to the sponsors near the Registration and in the hallway. The logos of all the sponsors shall be printed on PFI Invitation cards, welcome banners, main backdrop banner and on all PFI promotional banners. All sponsoring companies will be honored by presenting them mementos during the AGM.

Kindly send the sponsorship confirmation by sending the cheque / draft in the name of Poultry Federation of India. Your support by giving Sponsorship in Poultry Federation of India's 35th AGM shall be highly appreciated.

Registration:

The Online Delegate Registration is open until 15 December, 2024. We are, however, offering an early bird discount until 31 July, 2024. The executive committee has approved a resolution wherein the Online Registration will remain closed after 15 December, 2024 under all circumstances. However, there will be an 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	7000	Valid from 01 September, 2024 until 15 November, 2024
2	Online Registration	12000	Valid from 16 November 2024 until 15 December, 2024
3	On Spot Registration	15000	Day of Event

The registration fee includes Lunch, High Tea, Cocktail, Networking Dinner and attending Musical Entertainment Program on 27 - 28 December, 2024.

To register online for 35th Poultry Federation of India's AGM to be held on 27 - 28 December, 2024 at Hotel The Leela, Gurugram., please visit the following link:

<https://poultryfederation.org/register-now.aspx>

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The adoption of in-ovo vaccination in India commenced six years ago with the successful installation of Embrex® Biodevices in leading integrators across the northern and

central regions. Zoetis recognized the critical role of biosecurity and infrastructure challenges in the Indian poultry industry's transformation. By addressing these challenges and overcoming the initial hurdles in technology adoption and operational integration, the industry has embraced in-ovo vaccination, leading to notable improvements in process optimization, biosecurity, and farm performance. Zoetis Embrex® In-Ovo Vaccination Technology has shown clear benefits in terms of disease management and stress-free vaccine administration.

Embrex® has established its dominance in the South Asian market (India, Bangladesh, Nepal & Sri Lanka), securing contracts for In-Ovoject devices in major hatcheries over six years and maintaining a 100% market share². This dominance is reflected in the region's impressive throughput of 700 eggs per

minute through the Zoetis Embrex® InOvoject® System², underscoring its unparalleled efficiency and scalability. The exponential growth of this system underscores the significant impact of In-Ovo Vaccination Technology on poultry health management to protect against disease.

Zoetis has been instrumental in advancing In-Ovo vaccination practices, aligning with the industry's increasing automation. Since its commercial introduction in 1992, the Embrex® Inovoject® System has revolutionized poultry practices globally, with over 20 billion eggs vaccinated annually across more than 40 countries using in-ovo technology³.



In-ovo Technology involves the administration of various vaccines to poultry embryos during the incubation process. In-Ovo immunization offers biological and commercial advantages over subcutaneous vaccination, including up to

100% site of injection (SOI)⁴ accuracy to chicken embryos at the age of 18 – 19 days of incubation, early immunity development, reduced bird stress, and optimized production outcomes. Research demonstrates that early placement facilitated by in-ovo vaccination improves bird health and producer profits⁵. Moreover, Embrex® Biodevices help producers streamline operations by ensuring precise vaccine delivery, and significantly reducing labour requirements and the risk of errors.

In summary, the widespread adoption of In-Ovo Technology in India and South Asia signifies a change in thinking in poultry health management, promoting efficiency, productivity, and sustainability. Hatcheries of varying sizes have switched to in ovo vaccination for reliable poultry vaccination in the hatchery to help support efficient hatchery processes and flock immunization — and to enjoy benefits that cascade across their operations. With a continuous flow of inquiries pouring in regarding Embrex® In-Ovo Vaccination Technology, it is evident that people are recognizing the transformative potential of this cutting-edge technology. Zoetis' ongoing commitment to advancing its purpose to nurture the world and humankind by advancing care for animals continues to position it as a key player in shaping the future of the Indian poultry industry.



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BIÖNTE® QUIMITÖX® PLUS: REDUCTION OF FUMONISIN B1 (FB1) ORAL BIOAVAILABILITY IN BROILER CHICKENS

INSIGHTS FROM TOXICOKINETIC TRIAL

by BIÖNTE TECHNICAL DEPARTMENT

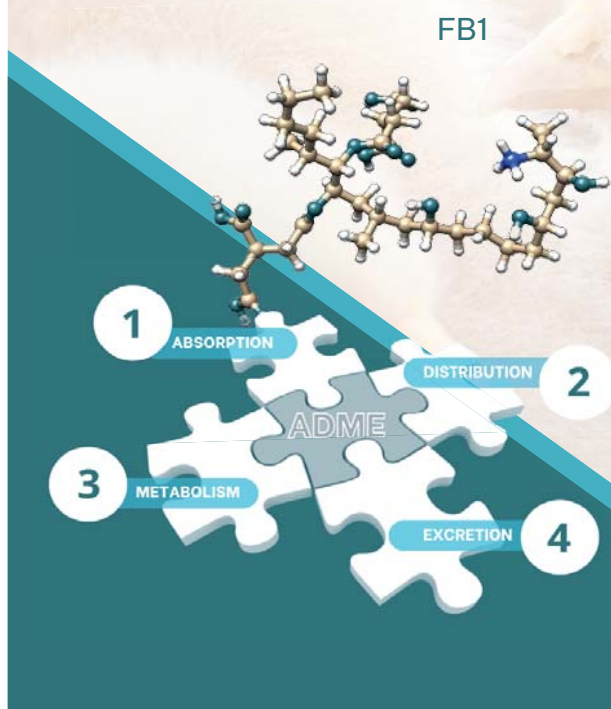
Introduction

Farm animals are often exposed to mycotoxins, which have many adverse health effects and are becoming a major food safety challenge. Understanding how the mycotoxin interact with the organism can provide useful information into their mechanism of action, thereby facilitating the development of strategies to reduce the harmful effects of these compounds in animal nutrition, such as the inclusion of detoxifying agents into the diet to mitigate the mycotoxins exposure. However, following the European Food Safety Authority recommendations, the efficacy of detoxifiers should be assessed through toxicokinetic studies. Toxicokinetic studies describe the fate of a toxin in the body, depending on **absorption, distribution, metabolism and excretion (ADME) processes**.

Gruberg-Dorninger et al. (2019), showed that in poultry species, the main mycotoxins found in contaminated feeds are **fumonisin (FBs)**, which account for 60% of the contamination in finished feeds. It has been reported that in broiler chickens, FBs are **absorbed** in approximately **2-3% in the gastrointestinal tract**, exhibiting poor bioavailability and rapid distribution in tissues, such as the **liver, kidney, and muscle** (Knutsen et al., 2018). Regarding their **metabolism**, literature describes hydrolysis reactions that lead to the production of the two main metabolites, **PHFB1** (partially hydrolyzed FB1) and **HFB1** (hydrolyzed FB1) (Knutsen et al., 2018).

Also, it has been shown that FBs are structural analogues of sphingoid bases that inhibit ceramide synthase. This inhibition lead to disruption of sphingolipid metabolism and pathological changes. In fact, the alteration of the **sphinganine/sphingosine ratio** is considered a **biomarker of great interest** to determine the toxicity of fumonisins (Guerre et al., 2022).

Concerning the **excretion** of FBs, the primary pathways involve the biliary duct, with a higher elimination observed in feces, typically accounting for 90% of the administered dose. Both FBs and their metabolites have been identified in fecal samples, exhibiting a half-life of less than 4 hours (Knutsen et al., 2018). **Consequently, toxicokinetic studies, based on ADME processes, are useful tools to evaluate the susceptibility of animal species to mycotoxins and to evaluate the efficacy of anti-mycotoxins solutions.**



BIÖNTE® QUIMITOX® PLUS: FB1 Toxicokinetic trial in broiler chickens

OBJECTIVE

BIÖNTE® QUIMITOX® PLUS combines adsorbent materials to effectively bind mycotoxins in animal nutrition. Additionally, it contains a blend of natural extracts and selected yeasts, offering bioprotective and post-biotic effects. This unique combination of minerals, organic materials and phytogetic components, has been developed by a multidisciplinary scientific team in strict compliance with EFSA requirements.

To address this issue, and provide useful guidelines to the sector, an *in vivo* trial was carried out in collaboration with **Ghent University** to evaluate the effects of **BIÖNTE® QUIMITOX® PLUS** on the oral bioavailability of FB1 in broiler chickens evaluating the plasma concentration–time profile.



ADSORPTION



SELECTED
BENTONITE

SEPIOLITE



BIOPROTECTION



SILIMARIN AND
CURCUMIN



POST-BIOTIC



SELECTED
YEASTS



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EXPERIMENTAL DESIGN

As shown in **figure 1**, the trial involved **six** 21 day-old-broiler chickens Ross 308 which were fed with a commercial diet from day 1-6 (**acclimatization period**). This feed was naturally contaminated with low levels of deoxynivalenol (152 ppb), zearalenone (19.9 ppb) and FB1+FB2 (51.2 ppb).

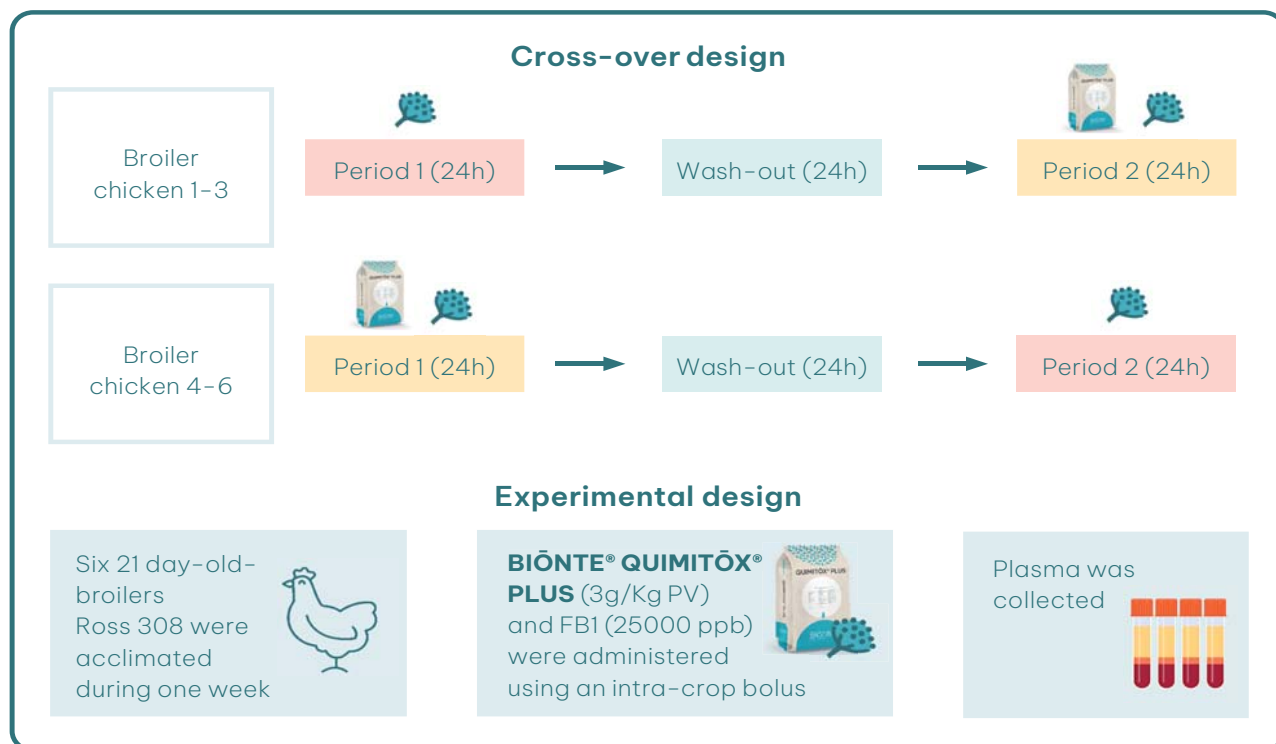


Figure 1. Experimental design.

Following the experimental design, at period I, 3 broilers chickens were administered a single oral bolus with 25000 ppb of FB1, while the others 3 animals received the same single oral bolus of FB1 (25000 ppb) in combination with 3 g/kg of **BIÖNTE® QUIMITÖX® PLUS**. At period II, a cross-over design was applied for the administration of the mycotoxin and the mycotoxin combined with anti-mycotoxins solutions for the different broiler chickens. Blood samples were collected before the administration of treatments and at 0.08, 0.25, 0.5, 0.75, 1, 1.5, 2, 3, 4, 8 and 12h after the administration.

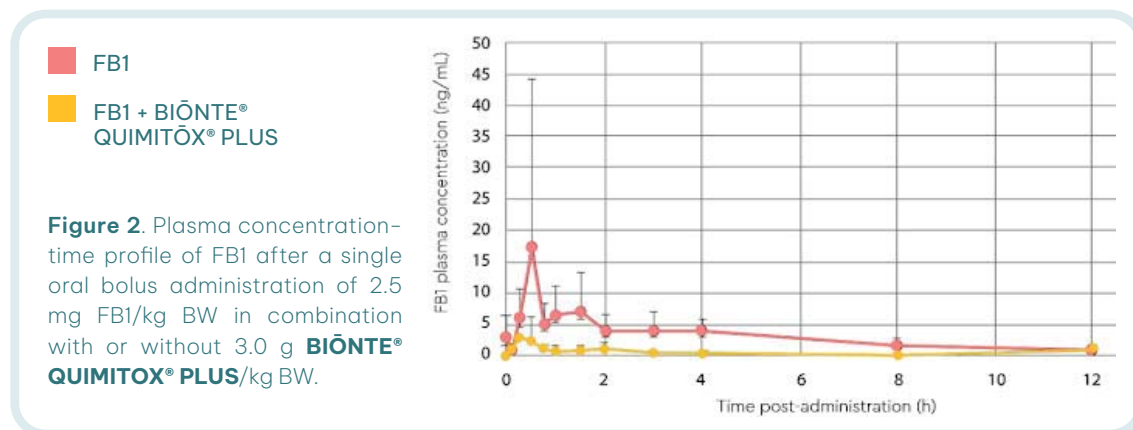


Toxicokinetic analysis included the examination area under the plasma concentration-time curve from time 0 to 12h ($AUC_0 \rightarrow 12$) and maximum plasma concentration (C_{max}) among other **toxicokinetic parameters**. The effect of **BIÖNTE® QUIMITÖX® PLUS** on the oral absorption of FB1 was assessed by comparing toxicokinetic parameters based on FB1 plasma concentrations in samples treated with **FB1 alone** versus those treated with **FB1 combined with the tested anti-mycotoxins product**, with a focus on $AUC_0 \rightarrow 12$ and C_{max} .

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RESULTS

The systemic exposure (reflected by the AUC) of FB1 was statistically significantly lower in the birds receiving **BIÖNTE® QUIMITÖX® PLUS**, compared to the birds that only received the mycotoxin (Figure 2). More specifically, the AUC 0 → 12 and C max showed a reduction of 82% and 74%, respectively (Table 1).



	FB1		FB1 + BIÖNTE® QUIMITOX® PLUS
AUC _{0 → 12} (h.ng/ml)	34.30	↓82%	6.167
C _{max} (ng/ml)	19.63	↓74%	5.09

AUC_{0 → 12}: area under the plasma concentration-time curve from time 0 to 12h
C_{max}: maximum plasma concentration
Values in bold indicate a statistically significant difference (p < 0,05)

Table 1. Main toxicokinetic parameters of FB1 after an oral bolus administration, whether or not combined with **BIÖNTE® QUIMITOX® PLUS**.

These results, published in the **World Mycotoxin Forum (2023)**, showed the efficacy of **BIÖNTE® QUIMITOX® PLUS** in reducing exposure to FB1 in broiler chickens.

CONCLUSION

This trial provide insight into plasma concentration-time profile of FB1 in broiler chickens, demonstrating the efficacy of **BIÖNTE® QUIMITOX® PLUS** in reducing the total systemic exposure to FB1 in this specie.

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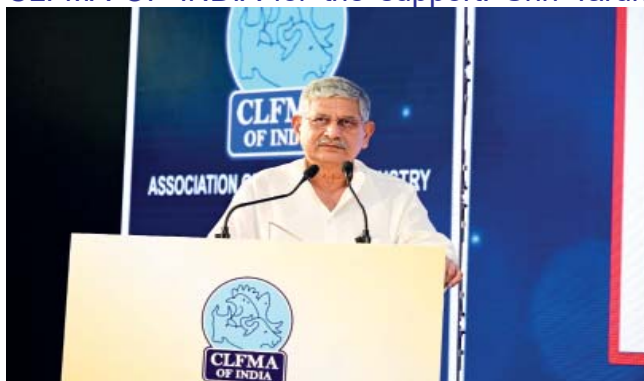
57th AGM and 65th National Symposium CLFMA OF INDIA at Novotel Goa



CLFMA OF INDIA organized its 57th Annual General Meeting and 65th National Symposium at Novotel Goa, themed “Sustainable Livestock Sector: Threats, Challenges, and Opportunities.” The event attracted nearly 400 stakeholders, including government officials, industry leaders, and academicians.

Hon’ble Minister of Fisheries, Animal Husbandry and Dairying, Government of India, Shri. Rajiv Ranjan Singh inaugurated the event, with Dr. Abhijit Mitra, Animal Husbandry Commissioner, was the Special Guest. Mr. Divya Kumar Gulati, Convener of the Symposium, addressed the challenges of high raw material prices viz. soya meal and corn, exacerbated by the government’s Minimum Support Price (MSP) and the ethanol mandate, urging a collective effort to balance the situation. CLFMA Chairman, Mr. Suresh Deora, stressed the need for government support to stabilize key feed ingredient costs.

Shri.Tarun Shridhar, IAS (Retd.) delivered the Thematic Address where he thanked CLFMA OF INDIA for the support. Shri Tarun



Shridhar, IAS (Retd.), emphasized the need for sustainable policy interventions that not only consider environmental issues but also ensure the continued consumption and production of livestock products. He underscored the importance of viewing the livestock sector as a vital food sector and highlighted challenges like low productivity, anti-microbial resistance, greenhouse gas emissions, and misinformation campaigns.

Keynote Speaker Mr. Balam Singh Yadav in his keynote address, acknowledged the significant growth in the livestock industry over the past 25 years, attributing it to government schemes and the rise of startups in the sector. He highlighted the growing demand for animal-sourced nutrition, the impact of digital solutions, and the importance of addressing greenhouse gas emissions. He also touched on the need for innovation in areas like embryo transfer technology and the shift in consumer preferences toward sustainability.

The CLFMA Lifetime Achievement Award was





presented to Dr. O.P. Chaudhary, a Senior IFS officer from Madhya Pradesh and former Joint Secretary in the Ministry of Fisheries, Animal Husbandry & Dairying, Government of India, for his valuable contributions to the livestock sector. The CLFMA Award was presented to Dr. Deepashree Desai and Dr. Udeybir Singh Chahal, who were honored for their exemplary work in poultry science and animal nutrition, respectively.

The Special guest, Dr. Abhijit Mitra, Animal Husbandry Commissioner, reflected on his long association with CLFMA OF INDIA and shared insights on improving productivity in the livestock sector, emphasizing the importance of proper feed and breed management. He pointed out the potential of contract farming in maize production and the need for accurate representation of milk productivity in India.

The Chief Guest of the CLFMA OF INDIA's 65th National Symposium, Shri. Rajiv Ranjan Singh, Hon'ble Minister of Fisheries, Animal Husbandry and Dairying, Government of India spoke about how India is one of the largest livestock producers. In his speech he focused on various schemes by the government to bring



about a change in the livestock sector. "Central Government is taking several important steps to promote domestic solutions in the field of animal husbandry and reduce dependence on imports, under which new technology of IVF has been developed for genetic improvement in Indian breeds."

The Symposium featured insightful sessions on managing input costs, leveraging emerging technologies, and ensuring sustainable livestock practices. Discussions emphasized the need for collaboration, sustainable agriculture, and innovation. The event concluded with a call for greater cooperation among industry and government stakeholders. Mr. Abhay Shah, Hon. Secretary of the CLFMA OF INDIA concluded the inaugural session.

Dr. Devender Hooda, North Zone President-I, CLFMA of India, welcomed and introduced the moderator and panelists on the stage.

The First Session was titled "Managing Input Costs and Exploring Alternatives". The session Moderator was Mr. S. V. Bhawe, Past Chairman, CLFMA of India. Panelists were Mr. Reece H. Cannady, Director, U.S. Grains Council, Mr.





Ajay Jhunjunwala, President, SEA OF INDIA, Ms. Anupa Velusamy, MD, GFFCO Global Private Limited, Dr. Prashant Shinde, Managing Committee Member, CLFMA of India. They shared very good useful presentations for the livestock industry.

The Second Session was titled- "Leveraging Emerging Technologies for Efficient Livestock Management & Retailing". Moderator: Dr. Dinesh Bhosale, Past Chairman, CLFMA OF INDIA. And the Panelist were Mr. Narendra K. Pasupathy, Founder and CEO of Nandu's Chicken, Mr. Nikhil Chitale, Managing Partner, Chitale Dairy, Mr. Balasubramaniam V, General Secretary, Prawn Farmers Federation of India. Their presentations appreciated by all.

On September 21, 2024 the New Managing Committee and Office Bearers of CLFMA OF INDIA, officially took the charge, following the election. The CLFMA OF INDIA - New Dynamic Leadership Team (2024-2026) Press release circulated to all. Dr. Devender Hooda, invited Dr. P. S. Mahesh to deliver the importance of CEAH (Centre of Excellence for Animal Husbandry), Hessarghatta in Bengaluru. He encouraged the



CLFMA Delegates to take advantage of their facilities.

The Final Session was titled – "Securing Sustainable Livestock: Challenges and Opportunities.", Moderator: Mr. G. Chandrashekhar, Economist, Senior Editor and Policy Commentator and the Panelists were Mr. Jiwan Kumar Gupta, Veterinary Officer, Department of Animal Husbandry, Government of Punjab, Dr. Vibha Ahuja, Chief General Manager, Biotech Consortium India Limited. Mr. Kevin Roepke, Regional Director, U.S. Soybean Export Council, Mr. Neeraj Kumar Srivastava, Past Chairman, CLFMA OF INDIA. The session was appreciated by all.

The Symposium concluded with a valedictory session delivered by Capt. (Dr.) A. Y. Rajendra, CEO Godrej Agrovat Ltd., who provided a summary of the discussions and key takeaways from the event. He expressed gratitude to the distinguished dignitaries and government officials, who honoured the Conference with their presence over the past two days.

Mr. Nissar F. Mohammed, Treasurer of CLFMA OF INDIA, delivered the Vote of Thanks. Apart





from the context-based panel discussions, several recurring themes emerged, including the impact of climate change on agricultural outputs and farmer income, which underscore the urgent need for sustainable practices and the adoption of climate-smart methods in agriculture.

The two-day Symposium concluded with a call for greater collaboration among government bodies, stakeholders, and regulatory agencies. Participants engaged in lively discussions, exchanging ideas and addressing questions from the audience. The 65th National Symposium,



2024 emphasized the importance of creating a conducive environment for the growth of the livestock industry. Attendees included industry professionals, government officials, researchers, scientists, and stakeholders, all actively participating in the comprehensive program. To foster further connections and networking, a dinner was held at the end of the event.

The symposium received an overwhelming response, highlighting the industry's growing interest in and need for such platforms. The program was well appreciated by all participants.







Utilization of By- Products from Poultry Processing Plant

Dr. Trupal A. Sabalpara¹, Dr. Akshay R. Bariya^{2*} and Dr. Ajay S. Patel²

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Abstract

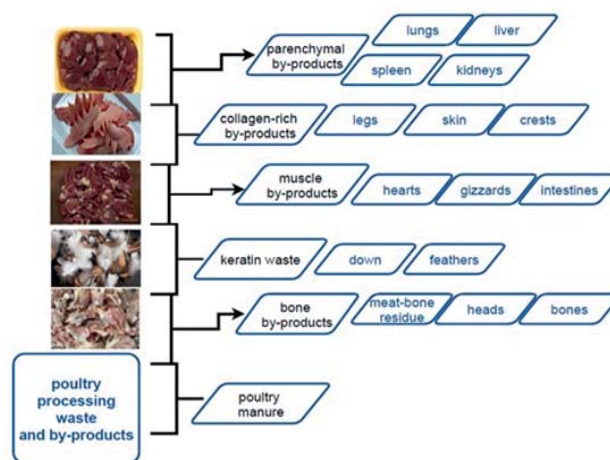
Significant amounts of industrial waste (manure, leftovers from the incubation and slaughter of poultry, feathers, and carcasses) are accumulated during the poultry processing process. With advancements in industrial technology, poultry byproducts can now be recycled and repurposed to convert them into value-added products. Poultry processing produce a keratin-containing waste like feathers and downare additional materials for many industries, such as agro-industrial, food, textile, construction, and many others. Rendering product is a cost-effective and efficient way to obtain animal protein. The management of nutritive organic waste should aim to produce value-added by-products such as pet animal or aquaculture feed components, energy through thermochemical or biochemical processes, and agricultural fertilizer.

Introduction

Globally, the poultry sector is increasing quickly and contributing to national development goals and boosting people's living standards. According to the 20th Livestock Census (2019), India's poultry population is 851.81 million, a significant increase from 729.21 million in 2012 and nearly 51.14% of meat production is contributed by Poultry (BAHS, 2023). Annual growth rate of Broiler production is 4.52% in year 2022-23 (Singh, 2023). The treatment and management of the enormous amount of poultry waste generated is one of the challenging issues due to increasing production of the poultry industry and if the poultry waste is not adequately managed, it contributes to environmental issues (Zhang et al., 2023). Poultry by-products and waste may include bones, viscera, feet, heads, blood, manure and feathers. Various categories can be created from poultry processing waste based on the morphological traits and biochemical makeup of the waste (Zinina et al., 2022). Approximately 3.3 million tonnes of poultry waste are generated in India, and the amount grows yearly (Glamac, 2023).

Poultry by-products produce large amounts of ammonia, aerosol, greenhouse gasses, and other airborne pollutants that could cause climate change and environmental damage (Herrero et al., 2016). Furthermore, it may pose threats to human

health through the transmission of bacteria and diseases (Brandelli et al., 2015). In fact, as industrial technology has advanced, these Poultry byproducts may now be recycled and repurposed as resources to create value added products. Currently, a great deal of these materials is processed into blood meal, meat and bone meal, feather meal, and fats through rendering, which is the predominant waste valorisation pathway for poultry processing by-products. Many researchers advised treating poultry manure with hydrothermal treatment, which deactivates pathogenic microorganisms (Dhillon et al., 2016; Vikman et al., 2017).



Source: (Zinina et al., 2022) classification of Poultry waste and by-products.

(1) Poultry Feather:

Poultry processing produce a keratin-containing waste like feathers and down that are additional materials for many industries, such as agro-industrial, food, textile, construction, and many others(Ahmad et al., 2022).

Feather meal contains a high concentration of hydrophobic amino acids like cystine, arginine, and threonine and is composed of over 90% protein, it is also used as animal feed, organic fertilizer, and feed supplements. Feathers are digested at a high temperature and high pressure in the hydrothermal process, which is one of the most popular ways to produce feather meal (Muduli et al., 2018).

- **Chemical Hydrolysis**

Lime (calcium hydroxide) treatment of chicken

feather keratin yields a liquid product rich in amino acids and polypeptides that can be added to animal feed. High temperatures (150°C) can dissolve 80% of feather keratin in 25 minutes. However, moderate temperatures (100°C) require a longer reaction time (300 minutes). 95% of the keratin in feathers is digested after 3 hours of hydrolysis at 150°C. After lime treatment, approximately 54% of the calcium can be recovered by carbonating under the suggested parameters (100°C, 300 min, and 0.1 g Ca(OH)₂/g dry feather).

• Bioconversion

A further function that bacteria perform is raising the bio value of feather wastes. Despite the fact that feather bioconversion may be possible with bacterial keratinolytic proteases. Three strains of microorganisms *Bacillus subtilis*, *Bacillus pumilus*, and *Bacillus cereus* are capable of breaking down feathers due to their respective generation of 142, 96, and 109 units of keratinolytic activity. (Kim et al., 2001).

• Textiles

A large portion of down feathers are consumed by the textile industry. The raw material is used for filling blankets, pillows, and duvets. Coats are made from the finest grade of feathers. Hydrolysed feather waste protein can also be utilized as a modifier to improve cotton fabric qualities and increase its receptivity to natural dyes (Zhang et al., 2020).

• Biodegradable plastic

Through a process known as polymerization, poultry feathers can also be transformed into biodegradable plastics. This method pulverizes keratin-containing feathers into fine dust. Polymerization uses chemicals to link keratin molecules into lengthy chains. At 170°C, it is further molded into a variety of shapes. Thermoplastics can be used to make many products, including plastic cups, plates, and furniture. (Muduli et al., 2018).

• Fertilizer

Poultry feathers are utilized to create a slow-release nitrogen fertilizer. This attempt modifies the structure of keratin fibers by breaking disulphide bonds with steam hydrolysis for 12 weeks, breaking polypeptide bonds with enzymatic hydrolysis by *Bacillus licheniformis* and improving mineralization with steam hydrolysis (autoclaving) cross-linking protein by formaldehyde reaction to reduce excess mineralization (Gál et al., 2020).

(2) Soft Slaughter house waste:

Poultry by-products, such as heads, legs, hearts, gizzards, and liver, are inexpensive sources of animal protein and other necessary nutrients that can be eaten on their own or included into meat dishes.

Chicken leg and skin - Chicken legs and skin can be used to make high-quality gelatin and Biodiesel by Acetic acid extraction (Santana et al., 2020).

Chicken head – Gelatine is obtain from chicken head by series of batch extractions at different temperatures (50 and 60 °C) and using proteolytic enzyme (Gál et al., 2020).

Chicken meat residue– Gelatine can be extracted from chicken meat residue with the endoprotease. (Mokrejš et al., 2021).

Chicken viscera and giblets –organs from chicken can be a good source of protein with an adequate balance of amino acids and provide good growth performance as shrimp feeds. This can be produce by protein hydrolysis process that break the bonds between the amino acids that compose the protein (Soares et al., 2020).

(3) Blood:

Chicken blood meal (CBM) is an extremely environmental damaging slaughterhouse byproduct that is high in protein and iron and is mostly utilized as animal feed and fertilizer (Kefalew & Lami, 2021). Blood makes up about 2% of the live broiler poultry weight. Dry poultry blood has approximately 95% protein, high nutritional and functional quality, a balanced amino acid profile, and a large number of minerals. In order to prepare high-grade blood meal, blood is collected separately from other solid waste and processed with appropriate sanitary precautions then spray dried at low temperature. High-quality blood meal can be utilized as a source of nutrients for commercial crops and in the formulation of animal feed for various species (Ozdemir & Yetilmezsoy, 2019).

(4) Fat:

Less expensive edible or inedible fat and grease are produced by poultry rendering factories, and these materials may find application in fuel blending agents, non-livestock animal feed, and chemical industry products (Farmanesh et al., 2019). Rendering is a cost-effective and efficient way to obtain animal protein. Rendering is the process of removing fat from meat using heat. wet rendering method involves the use of pressure batch cookers in which the pre-cut raw material is injected with

live steam to a temperature of 140° C under 3.2 bar pressure for 3-4 hours. The percentage of fat that can be extracted from poultry wastes ranges from 2 to 30%, contingent upon the type of raw material and rendering conditions used. Rendered fat is commonly utilized as a feed ingredient because it is less expensive than vegetable oils. Incorporating fat into aquafeed increases metabolizable energy, promoting development and improving feed conversion ratio.

(5) Manure

Poultry litter and manure waste are excellent sources of nutrients for crops, including nitrogen, phosphorous, potassium, and other macro- and micronutrients, which can boost soil nutrient content. Because of this, it has long been utilized in agriculture as an organic fertilizer or soil amendment to enhance the chemical and physical properties of soils following appropriate treatment(Zhang et al., 2023).

➤ Alternative ways of the utilize the slaughterhouse products

• Aquaculture feed

Rendered poultry by-product have a high demand for commercial aquacultures and can serves as protein source in aqua feeds ingredients. High-protein, high-energy meals have been fed to aquaculture species, particularly fish. Protein has been present in large proportion in rendering products, making them a valuable source for it(Yigit et al., 2006). Aqua feed production is growing along with the aquaculture industry. Consequently, the aquaculture industry, which greatly depends on high-grade fish meal, may find that using poultry by-product meal is a very good alternative. Poultry meal has a balanced amino acid profile and can be added into feed at a rate of 5-10%. It has been found that the protein digestibility of poultry by-product meal used in fish production is greater than 80% (Taconet al., 2009).

• Fly larvae production

Detritivore insect larvae are a promising method for organic waste processing, converting wasted energy into valuable food ingredients for many applications. Poultry abattoir wastewater sludge is a nutrient-rich substrate for producing insect larvae on a large scale. The larvae can serve as a feed alternative and waste residue as a bio-fertilizer. The dry weight analysis of fly larvae food revealed 41.1-43.6% crude protein, 15.0-34.8% ether extract, 7.0% crude fibre, 14.6-28.4% ash, and 5278.49 kcal kg⁻¹

gross energy(Khan, 2018). A 1200 m² poultry house generates approximately 113 tons of manure per year. Fly rearing converts this waste into 65 tons of bio-fertilizer and 47 tons of insect larvae for protein synthesis(Allegretti et al., 2018).

➤ Conclusion

Improper disposal of poultry waste can be a major source of pollution. Feathers can be chemically or biologically treated with bacteria to increase their nutritional value so that they can be fed to animals. It can be organically transformed into organic fertilizer, biofuel, biodegradable plastic, and feed supplements. Soft slaughterhouse byproducts are used to obtain various products like gelatine, shrimp feeds, biodiesel and enzymes. Blood utilized as a blood meal which contain a high amount of protein. Rendering poultry waste is the most desired process for meeting regulations, reducing health and environmental impacts, and producing value-added products such as aquaculture feed, pet food, insect meal, renewable energy sources, and bio-nutrients.

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Free Lance Poultry Consultant

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



His areas of expertise include:

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

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

NATIONAL EGG CO-ORDINATION COMMITTEE

Name Of Zone / Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Average
NECC SUGGESTED EGG PRICES																																
Ahmedabad	550	550	550	550	-	550	550	550	550	550	550	550	550	550	-	-	540	545	550	555	560	565	570	570	570	570	570	575	580	585	-	557.59
	515	515	510	515	518	518	518	527	527	527	-	-	-	-	527	519	519	-	519	525	530	530	530	530	500	515	515	522	522	-	-	520.13
	504	504	506	506	508	515	517	517	517	517	519	519	519	519	519	519	511	509	509	512	516	520	520	505	505	505	512	515	515	521	-	513.33
Bengaluru (CC)	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	555	560	570	570	570	570	570	570	575	580	-	555.67
Brahmapur (OD)	540	540	520	520	520	528	533	540	545	545	545	545	545	525	525	515	515	515	515	521	530	550	555	555	-	530	530	536	545	545	-	533.55
Chennai (CC)	530	530	530	530	530	530	530	530	530	538	538	538	538	538	538	538	538	538	538	545	545	565	575	575	585	585	585	585	585	585	-	551.5
Chittoor	523	523	523	523	523	523	523	523	523	538	538	538	538	538	538	538	538	538	538	548	558	568	578	578	-	578	578	578	-	-	543.34	
Delhi (CC)	540	540	535	535	535	535	535	535	535	535	535	541	545	545	545	545	545	545	545	545	545	545	545	545	545	545	545	545	545	545	-	541.53
E.Godavari	535	535	535	535	535	535	-	525	525	525	525	525	525	525	525	515	505	505	505	510	515	525	530	535	535	535	535	540	545	550	-	527.41
Hospet	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	505	510	520	520	520	520	520	525	530	-	505.67
Hyderabad	510	510	510	510	510	510	510	510	510	510	510	510	510	510	510	480	480	485	490	495	500	505	510	515	515	515	515	520	525	530	-	507.67
Jabalpur	515	515	505	505	505	505	505	510	510	-	-	-	-	-	510	510	510	512	-	516	519	530	540	540	540	540	540	550	560	566	-	523.25
Kolkata (WB)	590	590	590	590	570	570	590	595	600	600	600	600	600	570	570	560	560	560	560	560	585	600	600	600	580	580	580	585	600	600	-	584.5
Ludhiana	525	515	506	508	508	513	520	520	520	520	520	520	520	520	520	520	520	520	520	520	520	520	520	520	520	520	505	505	515	515	-	517
Mumbai (CC)	575	575	560	560	560	560	560	-	560	560	560	560	560	560	560	550	550	555	560	565	570	575	580	585	585	585	585	590	595	600	-	568.97
Mysuru	555	555	555	555	555	555	555	555	555	555	555	555	555	555	555	555	555	555	555	555	555	560	565	575	575	575	575	575	577	582	-	560.47
Namakkal	505	505	505	505	505	505	505	505	505	505	505	505	505	505	505	505	505	505	-	505	505	510	515	525	525	525	525	530	535	-	510.86	
Pune	580	580	570	560	560	560	560	560	560	560	560	560	560	562	564	564	564	564	564	565	570	575	580	585	585	585	585	590	595	601	-	570.93
Raipur	520	510	495	495	495	495	500	500	500	500	-	505	-	505	505	495	495	-	505	510	525	530	530	530	530	530	540	550	560	-	513.15	
Surat	560	560	550	550	-	550	550	550	550	550	550	550	550	550	-	-	550	550	555	560	565	575	580	580	580	580	585	590	595	-	562.78	
Vijayawada	535	535	535	535	535	535	-	525	525	525	525	525	525	525	525	515	505	510	510	510	515	530	540	540	540	540	540	545	550	555	-	529.48
Vizag	535	535	535	535	535	535	525	525	525	525	525	525	525	525	525	515	505	505	505	505	510	530	540	540	540	540	540	545	550	550	-	528.5
W.Godavari	535	535	535	535	535	535	-	525	525	525	525	525	525	525	525	515	505	505	505	510	515	525	530	535	535	535	535	540	545	550	-	527.41
Warangal	512	512	512	512	512	512	512	512	512	512	512	512	512	512	512	482	482	487	492	497	502	507	512	517	517	517	517	522	527	532	-	509.67

Prevailing Prices

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