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ISSUE - 8

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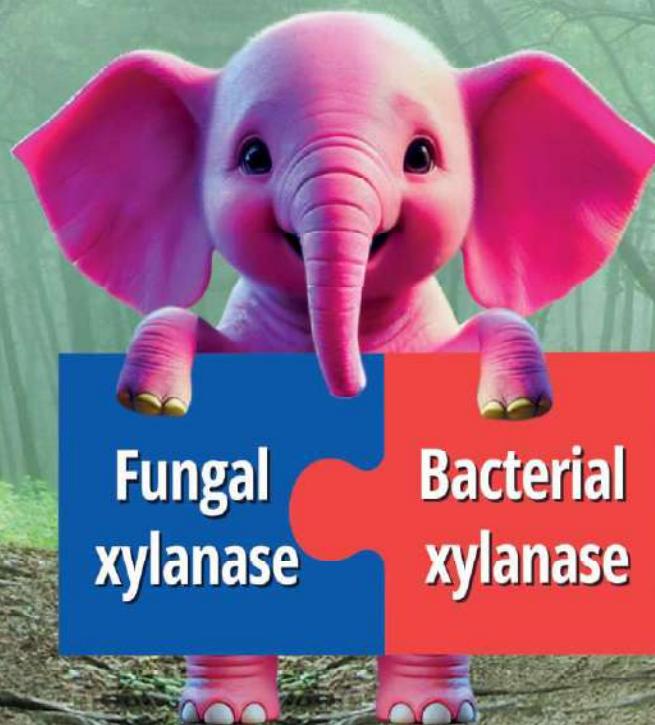


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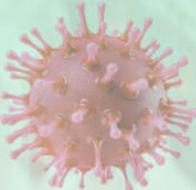
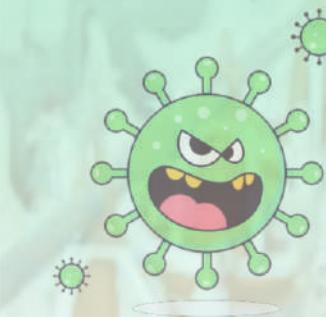
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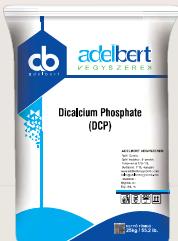
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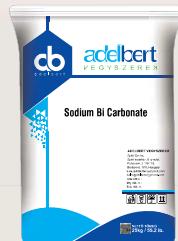
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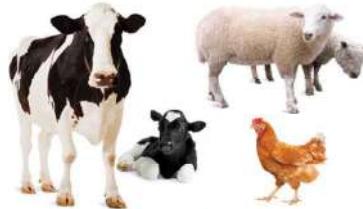
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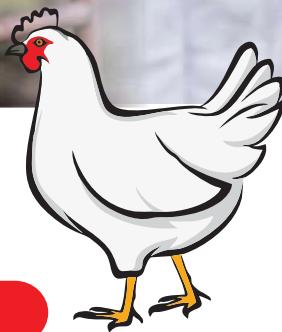
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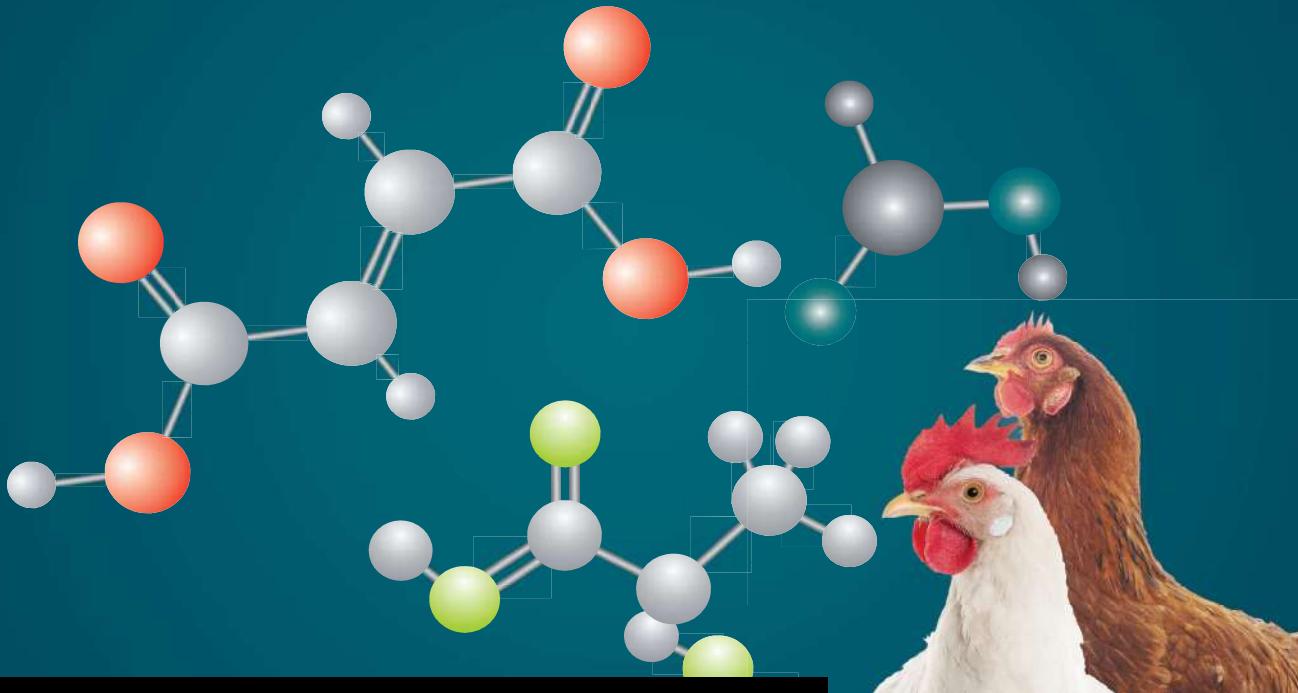
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Live & Let Live!

The Telangana Poultry, Federation, has displayed proactive activities and development for the Poultry fraternity in Telangana. The TPF, recently inaugurated its own office and hall with grand celebration by inviting several dignitaries from the industry across the country. It is nice to learn that many of such associations have started actively working towards the welfare of the farmers and the industry

BHARAT remains in the headlines of international news for its bold decisions and actions. Despite the US president's multiple threats going in vain, Bharat refuses to succumb to the threats and dictation

The European Union made the mistake of threatening NAYARA of Bharat, though this is a major Bharat oil refinery company (a joint venture with the Russian oil company). Bharat responded to the threat with the immediate effect of stopping the oil supplies on old terms and insisted on advance payment or letter of credit . This was least expected by the EU.

The blatant double standards of the EU, where they buy large volumes of gas and oil from Russia, but only wants Bharat not to deal with Russia – this is totally unacceptable to Bharat.

The recent Bharat and Britain Free Trade Agreement (FTA) has become a matter of concern with the USA and the EU, as it has resulted in adverse effect, contrary to their wishes.

The world has acknowledged and praised the action of Bharat against the Pakistani terrorist while Bharat's opposition party is still asking the proof of the Pahalgam attackers. It is high time the common man of Bharat realized who is a bigger threat and enemy within the country, the opposition stoops to the lowest level in greed of power, even against national interest.

Trump is no more difficult to read - his partnership revolves around business partnerships of I, Me & Myself! Any country wanting to deal with him accepts a lop sided transactional deal or wait for October 2026.

The west (the USA & Europe) are used to control and domination all the while. The Independence of decision making and breaking away from that tradition is shocking and unacceptable to them. This is revealed by their acts of frustration and myopic reactions. Bharat, traditional wisdom of not reacting to the unjust by anger and words, but acting calmly in executing its own long-term strategy is a new revelation in international diplomacy.

Bharat is neither pro-Russia or anti China nor Pro- Europe and anti-America, it is just Pro-Bharat in the west, it is either or kind of relationship – it is for or against where is Bharat believes in live and let live balanced relationship.



Ritu Agarwal, Managing Director, Gyandhara Industries.

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ROOTED IN RURAL WISDOM, BUILT ON SCIENCE



Gyandhara's philosophy is deeply rooted in a profound respect for dairy farmers, operating on the guiding principle of "**Achha Aahar, Achha Utpadan**" (**Good Feed, Good Output**). They meticulously develop feed variants that are precisely tailored for both buffalo and cow dairying practices prevalent in Uttar Pradesh and Bihar. Their formulations are carefully balanced in terms of TDN (Total Digestible Nutrients), protein, fat, and essential micronutrients. These formulations are specifically designed to improve milk yield, enhance body conditioning, and optimize reproductive performance, thereby ensuring both the well-being of the animals and the profitability for the farmers.



Quality and safety are paramount at Gyandhara, forming the bedrock of their operations. All products consistently meet BIS (Bureau of Indian Standards) compliance and are rigorously aflatoxin-controlled. Their unwavering commitment to quality is further reinforced by the advanced analytical techniques employed, including the use of NIR (Near-Infrared) machines and MPAES (Microwave Plasma Atomic Emission Spectroscopy) technology for comprehensive heavy metal testing. This dedication to excellence has earned the trust of countless farmers and channel partners alike.

ENABLING, NOT JUST SELLING

Gyandhara truly stands out through its profound focus on education and empowerment, going beyond mere sales. They actively engage with farmers through impactful on-ground programs, timely WhatsApp advisories, and innovative initiatives such as Gyandhara Manthan, all aimed at simplifying complex feed science into easily understandable concepts. By diligently promoting balanced nutrition over fragmented feeding practices, Gyandhara effectively helps farmers unlock greater value and potential from their cattle.



“

What began as a solution for Gyan Dairy's internal supply chain has today become a purpose-driven movement. Our unwavering focus on quality, farmer trust, and science-backed nutrition continues to guide us every step of the way.

- *Ritu Agarwal*

”

THE ROAD AHEAD

With a turnover exceeding ₹300 crores and an expanding presence across Uttar Pradesh, Bihar, and various parts of eastern India, Gyandhara has far surpassed its initial mandate as a captive feed solution. They continue to operate with the unwavering goal of providing high-quality, dependable nutrition to every dairy farmer, a mission that is consistently backed by sound scientific principles, unwavering integrity, and genuine care.

Gyandhara is immensely proud to carry forward the deep-seated trust that forms the fundamental foundation of the dairy world - the vital bond between farmer and cattle, the confidence between brand and market, and the harmonious blend of tradition and innovation.



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Ventri Biological Pvt Ltd Hosts Renowned Professor for Ground breaking Seminar on Infectious Coryza in Northern India



A three-day technical seminar series focusing on the latest advancements in the understanding and management of Infectious Coryza was successfully conducted from April 16 to 18, 2025, across key locations in northern India—Kaithal (Haryana), Yamuna Nagar, and Mohali (Punjab).

The sessions were led by Prof. Robert R. Bragg, a globally recognized authority from the University of the Free State, Bloemfontein, South Africa. Prof. Bragg is known for his extensive research and contributions to the study of avian diseases, especially Infectious Coryza. A key highlight of his presentation was the VH COR4 vaccine, featuring the power of C3. He explained that VH COR4 is specifically designed to target the prevalent strain of *Avibacteriumparagallinarum* circulating in India, offering region-specific protection and improved control of the disease.



April 16 – Kaithal, Haryana

The technical session on April 16 was organized in Kaithal and focused on the latest insights into the prevention and control of Infectious Coryza. The program commenced with a welcome address by Mr. Harjit Padda, Deputy General Manager (DGM), who introduced the distinguished guest. A parallel technical talk on “Vengem” was delivered by Dr. Sambhaji Nimbalkar (AGM), followed by an engaging Q&A. The session concluded with a vote of thanks by Mr. Shashi Bhushan, (AGM).

April 17 – Yamuna Nagar

The second day of the series was hosted in Yamuna Nagar, where Prof. Bragg delivered an in-depth lecture on the recent global updates and evolving challenges in Infectious Coryza. His presentation covered pathogen variations, diagnostic advancements, and vaccine





strategies. Once again, Mr. Harjit Padda introduced the speaker, setting the stage for an enlightening session. The event concluded with a vote of thanks by Mr. Raju Tanna(AGM), appreciating Prof. Bragg's valuable insights and the attendees' participation.

April 18 – Discussion with Lab Team

On the final day of the visit, a Lab team meeting was held at the Venkateshwara office in Mohali, where Mr. Harjit Padda welcomed and introduced the guest speaker, Prof. Bragg. The session featured an in-depth discussion between Prof. Bragg, Dr S P Singh (GM), Dr. Rakesh



Gupta (GM), Dr. Rohilla (DGM), Dr. Danveer Singh (DGM), Dr. Sambhaji Nimbalkar (AGM) and the technical team, focusing on field-level challenges and strategies for effective Coryza management in Indian poultry farms. The meeting concluded with a vote of thanks by Mr. Raju Tanna (AGM), who acknowledged Prof. Bragg's valuable contributions and thanked all attendees for their active participation.

This knowledge-sharing initiative reflects the ongoing commitment of the Venworld teams to bring global expertise to the doorstep of Indian poultry professionals and ensure science-backed disease control at the grassroots level.



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AMR Stewardship Drive 2025

Building Partnerships for Strengthening Our Response to AMR

Date: 11 July 2025

Venue: ICAR-NIVEDI, Yelahanka, Bengaluru



Antimicrobial Resistance (AMR) is increasingly recognized as a critical public health challenge worldwide, posing significant risks to human and animal health, food safety, trade, and economic stability. Recognizing the urgency of this growing threat, the Confederation of Indian Industry - Food and Agriculture Centre of Excellence (CII FACE) in collaboration with Indian Federation of Animal Health Companies (INFAH) as Knowledge Partner has launched the AMR Stewardship Drive 2025 a multi-city outreach campaign aimed at fostering awareness, building capacity, and promoting antimicrobial stewardship practices across the livestock and aquaculture sectors.

The first session of this national drive was organized on 11th July 2025 in Bengaluru by CII FACE in collaboration with ICAR-National Institute of Veterinary Epidemiology and Disease Informatics (NIVEDI). Theinaugural session marked

the beginning of a sector-wide effort to combat the rising threat of AMR in animal agriculture. A total of 120 participants including veterinarians, researchers, academicians, fisheries professionals, industry members, startups and veterinary graduates participated in the event.

The event commenced with welcome remarks by Mr. Suresh Chitturi, Chairman, CII Committee on Animal Agriculture and Managing Director, Srinivasa Farms. He emphasized that addressing Antimicrobial Resistance (AMR) was no longer a future challenge but a present imperative. He underscored the need for collective action across the animal agriculture value chain to safeguard productivity, public health, and food safety, while sustaining farmer livelihoods.

Setting the context for the day, Dr. Shirish Nigam, President, Indian Federation of Animal Health Companies (INFAH) and Managing Director, EW Nutrition India, spoke about the pivotal role of the animal health industry in driving responsible antibiotic use. He highlighted the industry's commitment to stewardship, innovation, and partnerships that strengthen AMR mitigation at the grassroots level.

In his special address, Dr. Baldev R Gulati, Director, ICAR - National Institute of Veterinary Epidemiology and Disease Informatics (NIVEDI), reflected on the growing risks of AMR in animal production systems. He outlined NIVEDI's ongoing efforts in advancing disease surveillance,

veterinary diagnostics, and One Health collaboration to counter this emerging threat.

Prof. (Dr.) P K Shukla, President, Indian Poultry Science Association and Head, Department of Poultry Science, DUVASU, Mathura, shared perspectives on the poultry sector's unique challenges and opportunities in AMR containment. He emphasized the need for enhanced veterinary practices, alternative therapies, and farmer education to promote judicious use of antimicrobials in poultry farming.

Dr. Sindura Ganapathi, Visiting PSA Fellow, Office of the Principal Scientific Adviser to the Government of India, emphasized the importance of aligning AMR containment efforts with the broader One Health agenda. He added that "AMR is not a one-pathogen, one-solution problem—it requires a multi-faceted approach involving innovation and targeted strategies. Each sector, whether poultry, dairy, or aquaculture, faces its own unique challenges and must be addressed with sector-specific solutions."

The inaugural session concluded with a Vote of Thanks by Mr. Suresh Chitturi, who reiterated the critical role of partnerships between government, industry, and academia in shaping a future-ready response to AMR.

A key highlight of the event was the release of the CII FACE report titled "Industry-led AMR Stewardship in Animal Agriculture". This report complies learnings from extensive multi-stakeholder consultations and highlights the drivers of antimicrobial use in dairy, poultry, and aquaculture, emerging risks, gaps in current practices, and context-specific solutions for responsible antimicrobial usage. The report outlined actionable

recommendations for policymakers, industry players, academia, startups, and farmer organizations, providing a roadmap to enhance stewardship, safeguard food safety, protect animal productivity, and ensure environmental sustainability.

The program featured the technical session on Ground-Level Action Against AMR. This technical session focused on ground-level strategies to combat AMR through four key areas including promoting ethnoveterinary medicine by showcasing herbal alternatives, encouraging responsible antibiotic use through drug classification, withdrawal periods, and record-keeping, with a strong emphasis on the role of vets and paravets; ongoing AMR surveillance programs and testing in the Livestock Sector and preparing stakeholders for compliance with the FSSAI 2024 amendment collectively enabling practical, field-ready solutions for AMR mitigation across the livestock and aquaculture sectors.

The afternoon session featured a high-level panel discussion on "Tackling AMR in Animal Agriculture: Industry Perspectives and Practices." Industry leaders shared real-world experiences and practical challenges in implementing responsible antimicrobial use. The discussion focused on innovations and good practices already adopted by progressive players, the need for an enabling environment, policy support, capacity building, and partnerships to mainstream these efforts, scaling sustainable practices while balancing productivity and profitability in the livestock sector. The session reinforced that combating AMR requires a multi-pronged approach integrating policy reforms, industry action, and farmer-level awareness.

As part of its youth engagement efforts,

the event also featured a Collage-Making Competition for students and scholars on the theme “Be Antibiotic Smart: The Future is in Your Hands.” This creative session encouraged participants to visually express their understanding of AMR, and the proactive steps needed to contain it.

The AMR Stewardship Drive 2025 reaffirms the importance of collaborative action across industry, government, academia,

and civil society to address antimicrobial resistance a silent but growing threat to India’s animal agriculture and public health. The event sets the stage for a sustained, sector-wide stewardship movement under the broader One Health vision for India.

The next session of this national drive is scheduled on 11 August 2025 at Nagpur Veterinary College, Nagpur, Maharashtra.



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Black Soldier fly larvae: Natural food for Birds

Dr. Suraj Amrutkar¹, Dr. Bharti Dehmukh² and Dr. Suhas Amrutkar³

1. Assistant Professor, Dept. of L.F.C., F.V.Sc.& A.H., SKUAST-J, Jammu, J & K

2. Assistant Professor, Dept. of AGB, College of Veterinary Science., GADVASU, Ludhiana, Punjab

3. Assistant Professor, Dept. of Animal Nutrition, PGIVAS, Akola, MAFSU, Maharashtra

Introduction:

According to estimates, feeds account for up to 70 per cent of the entire cost of poultry production. Besides, the conventional feed supplied to the poultry, majorly cereals and soya, competes with the food demands of a growing human population. Hence, in addition to rising cost, the feed resource availability is a major determinant of the sustainability of the poultry sector.

There is growing interest in using insects as a source of protein in poultry feed. The black soldier fly (*Hermetia illucens*), is a common and widespread fly of the family Stratiomyidae. Its larvae are capable of converting substantial amounts of organic matter, such as food waste or animal manure, into edible proteins and fats during growth. Therefore, BSF larvae can be a viable alternative to conventional protein sources in feed for poultry with the potential to replace ingredients such as soybean meal and fish meal. Inclusion of BSF larvae (live, full-fat, or partially or completely defatted) in poultry diets benefits poultry growth, performance,

nutrient digestibility, resistance to pathogens, and gut microbiota. This may be attributable to natural antibiotic properties of BSF larvae, which contain substances with antimicrobial activity such as lauric acid and chitin, altering the microbial community in the gut by reducing harmful bacteria such as *E. coli* and *Salmonella*, thereby promoting poultry health. Providing broilers with live insect larvae corresponding to 5% of the expected daily feed intake can slightly improve cecal microbiota by enhancing a minor fraction of short chain fatty acid-producing taxa. Furthermore, providing live larvae as an environmental enrichment may also benefit poultry welfare, as previously observed in broilers, where live larvae reduced frustration in birds by stimulating foraging behavior and increasing activity levels, while also decreasing the time spent in tonic immobility, indicating reduced fearfulness. Understanding gut microbiota changes due to factors such as diet is crucial to bird health. The gut microbiota of laying hens plays an important role in immunity and nutritional metabolism, and may

also affect fear-related behaviours. Provision of live BSF larvae to laying hens would modulate the gut microbiota.

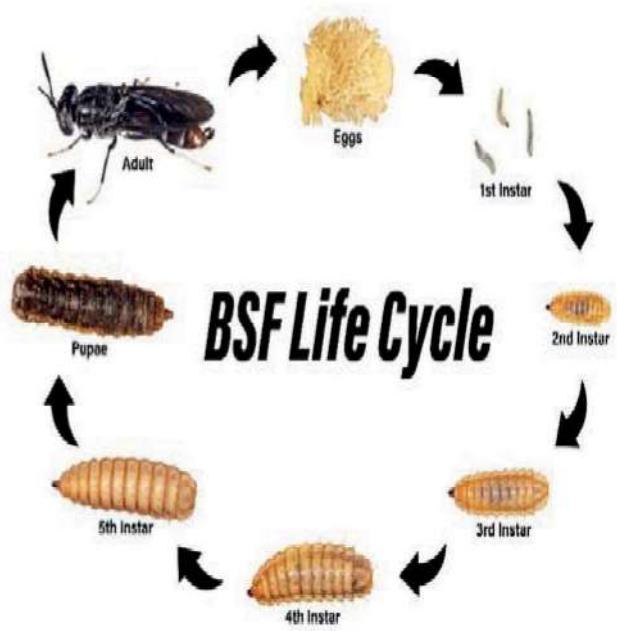
Description:

The adults of *H. illucens* measure about 16 millimetres long. These medium-sized flies have a predominantly black body, with metallic reflections ranging from blue to green on the thorax and sometimes with a reddish end of the abdomen. The second abdominal tergite has translucent areas, from which the Latin specific epithet derives. The head is wide, with very developed eyes. The antennae are about twice the length of the head. The legs are black with whitish tarsi. The wings are membranous; at rest, they are folded horizontally on the abdomen and overlapped.

Life cycle:

The entire life cycle of the black soldier fly is approximately 38 days. Larvae hatch from eggs, transition through five larval instars, pupate and then emerge as adult flies. When incorporating BSF into your composting process, harvest the compost in as little as 21 days. An adult female lays approximately 200 to 600 eggs at a time. They prefer to lay their egg near, but not on, the food. These eggs are typically deposited in crevices or on surfaces above or

adjacent to decaying matter such as manure or compost, and hatch in about 4 days. Freshly emerged larvae are 1.0 millimetre (0.04 in) long, being able to reach a length of 25 millimetres and weight of 0.10 to 0.22 grams by the end of larval stage. The larvae are able to feed on a wide variety of organic matter, adapting to diets with different nutrient content. The larval stage lasts from 18 to 36 days, depending on the food substrate provided to the larvae, of which the post-feeding (prepupal) stage lasts around 7 days. The length of larval stage can be delayed by months due to low temperature or lack of food. The pupal stage lasts from 1 to 2 weeks. Adults can live typically 47 to 73 days when provided with water and food, such as sugar in captivity or nectar in the wild, or survive for about 8 to 10 days on fat reserves gathered during larval stage when water is provided.



Use:

Neither larvae nor adults are considered to be agricultural pests or disease vectors. Black soldier fly larvae play a role similar to that of redworms as essential decomposers in breaking down organic substrates and returning nutrients to the soil. The larvae have voracious appetites and can be used for composting household food scraps and agricultural waste products. Additionally, black soldier fly larvae are an alternative source of protein for aquaculture, animal feed, and pet food.

Black soldier fly larvae are used as feed for pets and livestock animals. The harvested pupae and prepupae are eaten by poultry, fish, pigs, lizards, turtles, and even dogs.

At the pupal stage, black soldier flies are at their nutritional peak. They can be stored at room temperature for several weeks, and their longest shelf life is achieved at 10 to 16°C.

How To Care For BSF Larvae

- The first step for caring for black soldier flies is to build them a home. You can build a BSF rearing bin or simply add them directly to a traditional compost bin or pile in your yard.
- If you're starting with an empty bin,

provide them with a bit of substrate. Use a small amount coconut coir, coffee grounds or soil to help maintain moisture.

- Feed your maggots well by providing a balanced diet; avoid using just one or two inputs. Maggots will be developmentally delayed and the compost will take longer to mature if they are provided a single food type. The recommended feeding rate is 2kg of material per day for 10,000 maggots. Monitor the rate of consumption in your bin. As the larvae reach maturity, they eat less. To minimize odor, other insects and microorganisms from colonizing your bin, never overfeed the larvae. Be sure what you placed inside the bin breaks down before you add more. Under-feeding will result in delayed maturation but does not lead to death. They are hardy little larvae!
- The last step, and likely the most difficult, is monitoring the relative humidity (RH). The ideal range is 50-70% RH which can be difficult to maintain in an outdoor bin or pile. You'll look for a moist substrate with light condensation on the insides of a sealed bin to get close to this range. If the moisture level gets too high or your bins gets flooded from a rain event, drain the water off and dry them out by either leaving the lid off or adding more brown

material like shredded cardboard, old bread or flour/grains. The larvae can survive this moist environment, but the decomposition will be slowed and your bin will begin to smell as a result of microbial decomposition.

Feed for BSF larvae:

Black soldier fly composting is a bit different from standard composting. For traditional composts, want a roughly equal mix of carbon and nitrogen, commonly referred to as browns and greens, respectively. With BSF compost, can supply more processed materials and animal products into the mix, resulting in more variety. Some examples include prepared food (table scraps, restaurant leftovers, fast food), produce, livestock manure, plant waste (weeds from your garden), spent coffee grounds or brewing/distillery grains. Collect organic wastes from neighbours and add to the bin.

HARVEST BIN for BSF Larvae:

BSF larvae make a great protein supplement for livestock, such as chickens, or reptile pets. They have high amounts of calcium which aids in eggshell production. Harvest the larvae or pupae as they exit the bin and use them for feed. The resulting BSF digestate (compost) can be applied as a soil amendment. It is high in organic matter and can aid in water retention

of the soil. There are also nutrients available, including N-P-K, however this product does not replace fertilizers.

BSF cannot survive winter in Indian climate unless you move the bin into a sheltered or protected area. You can harvest your bin contents roughly every 20 days by simply digging out the contents. To do this you will want to be sure to feed the bin carefully according to the consumption of the flies reduce feeding as they get close to maturation so no residual un-digested feed is left over. Leaving a small amount of feed and larvae in the base of the bin will help kickstart the next round. If your bin is large enough, you can continue to add to it throughout the warmer months and do one harvest of the digestate (compost) in the fall or following spring.

Conclusion:

The larvae of black soldier fly have a high nutritional value and are easy to raise. The black soldier fly larvae can be a low-cost, low footprint, eco-friendly as well as natural feed companion to poultry farmers. The larvae feed on a variety of organic matter, from rejected food waste to manure. These insects also have high waste-to-biomass conversion efficiency. Of its very short life span of 45 days, the maximum feed intake takes place during the larval stage, which lasts for two weeks. This is the time required for useful

conversion of waste.

Black soldier fly Black soldier fly



Black soldier fly

Black soldier fly



Eggs of Black soldier fly

Larvae of Black soldier fly



Larvae of Black soldier fly

Larvae of Black soldier fly



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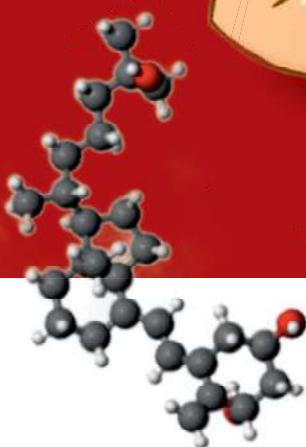


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Mahasangamam

Together for a Better Tomorrow 2025

A Memorable Meet for Poultry Minds at Mahabalipuram

Provet successfully hosted **Mahasangamam 2025**, a three-day conclave held from 8th to 10th July 2025 at Welcomhotel by ITC Hotels, Kences Palm Beach, Mahabalipuram. The event was organized under the visionary leadership of Dr. V. Muthu Selvan, Managing Director and Dr. S. Senthil, Director, bringing together leading poultry consultants, nutritionists, and industry professionals from across the country.



Held under the theme "**Together for a Better Tomorrow**", the conclave focused on the current challenges in the poultry sector and explored innovative, sustainable solutions for the future of poultry production.

Honouring the Experts

As a token of respect and appreciation, all the esteemed guests were felicitated during the event for their valuable contributions to the poultry industry. Their presence added great value and meaning to the entire program.

Knowledge-Driven Technical Sessions

The highlight of **Mahasangamam 2025** was the technical session, moderated by **Dr. P.K. Shukla** (Ex - Dean, Mathura Veterinary College & Former Joint Commissioner-Poultry, GOI). The session featured four thought - provoking

presentations that received overwhelming appreciation from the attendees:

- **Dr. Jayaraman. K** (Poultry Consultant) presented "*Evolving Disease Challenges – Management and Risk Mitigation*", sharing practical field strategies for disease forecasting and control.
- **Dr. Chandrasekaran. D** (Professor & Head, Retd., Animal Nutrition) spoke on "*Building Immunity through Feed – Nutritional Immunomodulation and Gut Resilience*", emphasizing gut health as a cornerstone of performance and disease resistance.

Dr. Sudipto Haldar (Director, Agrivet Research & Advisory Pvt. Ltd.) delibrated on "*Antibiotic-Free Poultry Production in the Era of AMR: Debunking Myths and Advancing Science*", urging a balanced, evidence-based approach to antibiotic alternatives.

Dr. Tiago Prucha (Consultant-Networks, Belgium) enriched the dialogue with "*Insights and Emerging Trends in Natural Growth Promotion*", aligning with global shifts toward sustainable poultry practices.

Each presentation fostered insightful discussions, reinforcing the need for integrated approaches and scientific precision in modern poultry management.



Blending Culture & Networking

Beyond its technical strength, **Mahasangamam 2025** offered a vibrant mix of cultural experiences, wellness activities, and scenic excursions that allowed attendees to relax, connect, and rejuvenate:

- A traditional welcome and heritage evening set the tone on Day 1, celebrating India's rich culture.
- A well organised and thoughtful Technical Session followed by world tour-themed networking gala dinner event evening on Day 2 was remarkable.
- Zumba session in early morning followed by Mahabalipuram exploration and bonding over the lunch @ Seanz Cruise, Mutukadu Boat House on Day 3, made the event both memorable and rejuvenating.

Together for a Better Tomorrow

“**Mahasangamam 2025**” was not just a meeting—it was a celebration of knowledge, unity, and future possibilities. Provet once again reaffirmed its commitment to innovation, learning, and building lasting partnerships in the poultry industry.

Dr. Sulav Chetia, GM – Marketing and Technical Services and the entire Provet team expressed heartfelt thanks and appreciation to all the consultants and guests for taking their time to attend and active participation. Their support made the event a grand success - both in spirit and outcome.



Mahasangamam
Together for a Better Tomorrow **2025**



Extensive Application of Artificial Intelligence (AI) & Automation

Supported by the Industry to Sustain and Boost India's Poultry Industry Growth while Ensuring Efficiency in Entire Value Chains - Ricky Thaper (www.rickythaper.com)



The Indian poultry market according to industry estimates was valued at USD 30.46 Billion in 2024. Due to rising demand for protein rich food, the sector is expected to witness a growth of 7% - 8% in the next decade. The value of the poultry industry is projected to rise to USD 66.37 Billion by 2034. Despite significant growth, the sector faces critical challenges such as a volatility in feed supplies and prices, lack of availability of skilled manpower, threat of spread of diseases and rising cost of production. As the demand for poultry products continues to rise, poultry farmers in India are seeking ways to optimize their operations while addressing pressing challenges such as food security, environmental impact, and biosecurity. From precision farming and genetic advancements to automation and data analytics, these cutting-edge technologies are being increasingly used in the poultry industry.

Like most sectors of the economy, the role of Artificial Intelligence (AI) and automation are having a profound impact. In the poultry industry in India, Artificial Intelligence (AI) and automation is gradually transforming and improving efficiency, productivity, and animal welfare. Artificial Intelligence (AI) powered systems are being used for real-time monitoring of poultry houses, optimizing feed formulations, improving disease detection and streamlining logistics and supply chain management. Currently there are challenges in poultry operations in commercial layers, broilers and breeding farms. The key challenges are adverse climatic conditions,



shortage and availability of skilled workers, emerging viral and bacterial diseases. Due to the age of the poultry sheds, prevalence of the diseases not eradicated while cleaning. Shortage of quality feed ingredients, use of medicines and ensuring availability of quality drinking water are also impacting the poultry industry. The quality of chicken meat is being impacted while lack of marketing facilities as well as price information is also adversely impacting the poultry sector.

The use of Artificial Intelligence (AI) based technologies to collect the data automatically and accurately in real-time helps in-depth analysis which could allow poultry farmers to immediately act upon optimizing the production. For instance, predicting or projecting body weight for a given broiler line under local conditions. Under unsupervised learning, data collected would be categorized and trends detected without specific programming using resources from the cloud, huge amounts of data could be



analysed to give advance notice of a particular outcome to the farmers. Data collected by using Artificial Intelligence (AI) tools would be the greatest resourceful tool in the hands of poultry farmers to harvest the maximum benefit of what they invested.

According to a report titled “Applications of Artificial Intelligence in Poultry Industry” by Livestock Farm Complex, Veterinary College and Research Institute, Salem, Tamil Nadu, a huge amount of data can be generated in the poultry industry by providing data analysis which can play a huge role in farm management practices. Big data stored and processed in cloud spaces can be utilized remotely by Artificial Intelligence (AI) to govern the machines or robotics to regulate parameters like humidity, temperature, light, etc., in the poultry farms. For instance, Robots with various biosensors connected to the internet, can be programmed to collect real-time data on parameters like temperature, humidity, ammonia levels inside the farm, subsequently this information can be processed and necessary measures could be initiated. The report stated that Artificial Intelligence (AI) helps to constantly monitor farm activities round the clock in real-time which would be an impossible task for humans to perform. Currently, in a large-scale poultry farm, several farm appliances and sensors are available to control the environmental temperature, humidity, and light, but the drawback with them is that they should be either manually operated or human supervision is a must to operate with. With the power of Artificial Intelligence (AI), various

sensors connected with the internet, the farm appliances can be operated from elsewhere giving accurate maintenance of the farmhouse environment at ease.

Computer supervised machinery and robotics could reduce sufficiently human interaction with broiler birds, reducing the source or spread of infection. Usage of Artificial Intelligence (AI) could reduce the error rate to negligible and work round the clock which can improve the efficiency of farming leading to maximizing farmer's remuneration. Recent advancements in machine technologies have significantly revolutionized daily activities in the poultry production system. Aimed at reducing the need of labour, while ensuring round the clock monitoring, and facilitating remote reporting of growth of poultry birds, these Artificial Intelligence (AI) tools are gradually being introduced. Some of the examples of application of Artificial Intelligence (AI) and automation include the implementation of specialized robots equipped with imaging sensors and machine learning capabilities, adeptly navigates through poultry house floors, collecting eggs on the floors and monitoring factors such as temperatures, gases and light levels in the poultry units. An innovative autonomous robot utilizes artificial intelligence and sensor technology to evaluate the surrounding environment, identify equipment malfunctions, monitor the health of poultry and perform tasks such as removing deceased birds and analyzing moisture levels in the litter. For instance, the robot stimulates bird activity, contributing to improving both feed conversion and average daily weight gain. Robot also continuously scratches the litter reducing the humidity, eliminating caking and wet spots, reducing the incidence of aspergillosis, pododermatitis, foot burn and breast burn contributing to animal welfare. It can also monitor and map ammonia, temperature and humidity levels throughout the farm to keep in check. A robot by a company was designed to sanitize large poultry farms.

For disease management amongst the poultry birds, using Artificial Intelligence (AI) could be

trained for detecting early heat stress in birds by using thermal imaging cameras or infra-red cameras. Likewise, diseased birds from the flock can be identified based on their movement, posture, and behaviour by image analysis collected from diseased birds and compared with the healthy ones. These tools would enhance disease control amongst the poultry birds. Confederation of Indian Industries (CII) has also stressed on strengthening integrated disease surveillance and early warning systems for reports on bird flu incidents. Computer vision-based chicken monitoring systems have been developed to study bird feeding behaviour, stress behaviour, tracking bird movement, bird distribution within the farm, real-time monitoring, early detection of sick birds, identifying lameness and activity, predicting bird live weight based on 3D computer vision.

The application of Artificial Intelligence (AI) has a range of applications in the meat processing plant and egg packing industry. These tools have potential to address some key issues in processing plants, lack of real-time processing data and the limiting speed of human interventions. The use of artificial vision offers real-time yield, monitoring of high-value chicken parts, also combined with smart automation to optimize efficiencies. For processing plants, Artificial Intelligence (AI) allows higher processing speeds and accurate packing of premium value products, translating into more profits and lesser post-harvest contamination. While still, the majority of the farms are collecting data

manually and then getting the data processed in computers. By 2050, it has been estimated that a poultry farm would be able to generate 4.1 million data points through various sensors and other related devices connected through the internet of things.

Going forward Artificial Intelligence (AI) assisted farming in various stages of poultry production from farm to consumers would help the Indian poultry sector immensely. There are tools to mitigate or to enhance a specific outcome of a farm produce with increased efficiency to tap farm maximum production potential. In the last few years, many companies have already focused on Artificial Intelligence (AI) related research and prototypes in collaboration with leading universities across the globe. Further use of newer Artificial Intelligence (AI) related technologies will augment poultry production providing affordable animal protein along with ensuring sustainable farm practices. Broiler chicken industry has become India's most organised and vertically integrated agri-business. The broiler integrators have turned poultry farming from traditionally to a commercial enterprise even for the smallholders. Currently over 80% of poultry meat production comes from the organised sector. For ensuring and sustaining the growth for the sector, Industry has to work closely with poultry farmers to ensure that Artificial Intelligence (AI) tools are used to optimum level for bringing in efficiency in the entire value chain.

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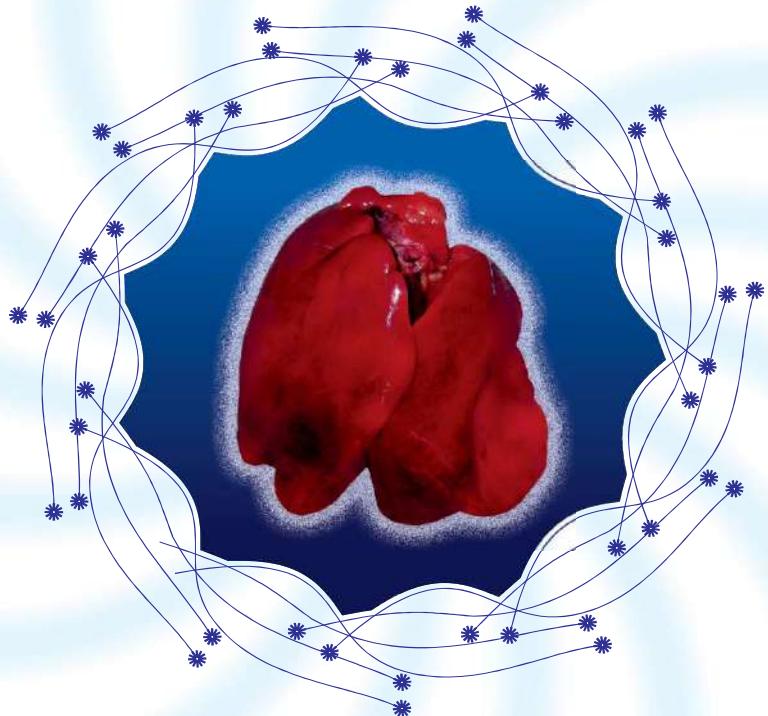
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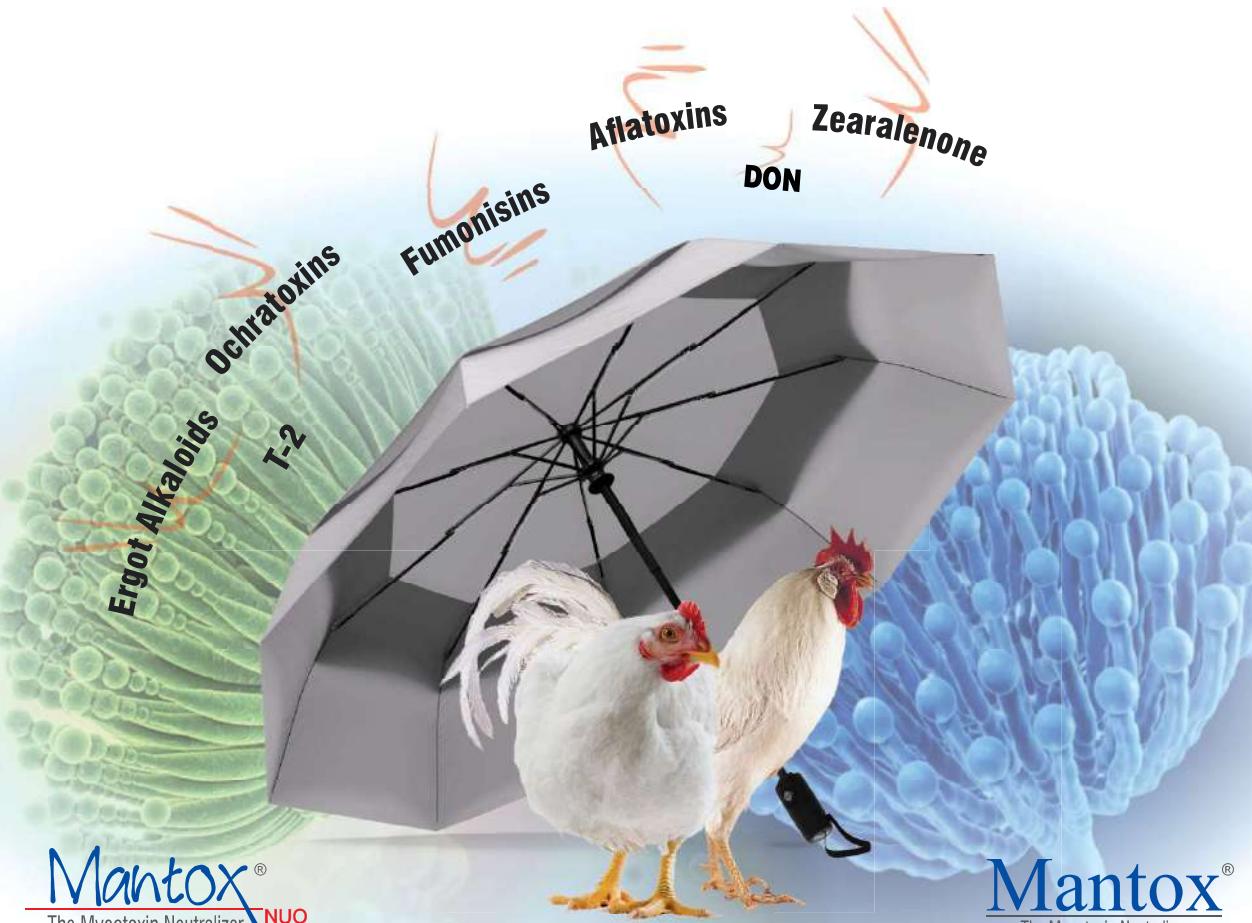
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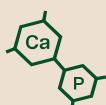
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TocoSel-N: A Synergistic Blend of Nano-Selenium and Vitamin E for Enhanced Poultry Health and Productivity

Introduction

The modern poultry industry faces continuous challenges in maintaining optimal flock health, productivity, and resilience against various stressors. Nutritional interventions play a crucial role in addressing these challenges. TocoSel-N is an innovative feed additive that combines the power of Nano-Selenium with Vitamin E, offering a synergistic approach to improve antioxidant status, immune function, and reproductive performance in poultry. This article delves into the unique characteristics and benefits of TocoSel-N.

The Science Behind TocoSel-N

TocoSel-N's efficacy stems from its dual-component formulation, each ingredient contributing distinctly and acting to provide synergistic benefits.

Nano-Selenium: Superior Absorption and Bioavailability

Selenium (Se) is an essential trace mineral vital for numerous physiological processes, including antioxidant defense, immune modulation, and thyroid hormone metabolism. While traditional inorganic and organic Selenium sources are widely used, their absorption and utilization can be limited. TocoSel-N utilizes Nano-Selenium, a form of Selenium engineered at the nanoscale (typically <100 nm).

Key advantages of Nano-Selenium include:

- Superior Absorption: The extremely

small particle size of Nano-Selenium allows for increased surface area and enhanced permeability across the gut lining, leading to improved absorption compared to conventional Selenium sources. This is attributed to phenomena like passive diffusion and facilitated transport mechanisms, which are more efficient for nanoparticles.

- Enhanced Tissue Penetration: Once absorbed, the nano-sized particles can more readily penetrate various tissues and cells, including those of the immune system and reproductive organs, ensuring targeted delivery and higher tissue Selenium concentrations.
- Reinforcement of Antioxidant Status: Selenium is a critical component of Glutathione peroxidase (GPx), a major antioxidant enzyme that protects cells from oxidative damage caused by free radicals. Nano-Selenium's improved bioavailability means more Selenium is available for GPx synthesis, leading to a stronger endogenous antioxidant defense system.
- Immunity Resilience: Selenium plays a vital role in immune cell proliferation, antibody production, and cytokine regulation. Enhanced Selenium status through Nano-Selenium supplementation can bolster the poultry's immune response, making them more resilient to disease challenges and reducing susceptibility to infections.

Vitamin E: A Potent Antioxidant and Immune Modulator

Vitamin E is known for its powerful antioxidant properties. It acts as a primary chain-breaking antioxidant in lipid membranes, protecting cell integrity from oxidative damage.

The role of Vitamin E in poultry health includes:

- **Cell Membrane Protection:** Vitamin E is strategically located within cell membranes, where it neutralizes free radicals, preventing lipid peroxidation and maintaining the structural and functional integrity of cells. This is particularly crucial for rapidly dividing cells and those under metabolic stress.
- **Immune System Support:** Beyond its antioxidant role, Vitamin E enhances various aspects of the immune response, including T-cell function, phagocytic activity of macrophages, and antibody production. It works synergistically with Selenium to optimize immune cell function.

Synergistic Benefits of TocoSel-N

The combination of Nano-Selenium and Vitamin E in TocoSel-N creates a powerful synergistic effect, where the combined action is greater than the sum of their individual effects.

- **Enhanced Antioxidant Defense:** Both Selenium (as a component of GPx) and Vitamin E work in concert to address oxidative stress. Vitamin E acts as the first line of defense in lipid membranes, while Selenium-dependent enzymes deal with hydrogen peroxide and organic hydroperoxides in the aqueous

phase. This comprehensive antioxidant protection helps mitigate the damaging effects of environmental stressors, disease, and intensive production systems on poultry.

- **Optimized Immune Response:** The combined influence of Nano-Selenium and Vitamin E significantly strengthens the poultry's immune system, leading to improved resistance against pathogens and a reduced need for prophylactic antibiotics.
- **Stress Reliever:** Oxidative stress is a major component of various physiological stressors (e.g., heat stress, transport stress, disease challenge) in poultry. By enhancing the antioxidant system, TocoSel-N helps alleviate the negative impacts of stress, leading to improved welfare and performance.

Impact on Reproductive Outcomes

TocoSel-N significantly contributes to improved reproductive performance in breeding poultry.

- **Fertility:** Both Selenium and Vitamin E are crucial for reproductive health. Selenium is involved in spermatogenesis in males and ovarian function in females. Vitamin E protects germ cells from oxidative damage. The enhanced antioxidant status provided by TocoSel-N can lead to improved sperm viability and egg quality, thereby increasing fertility rates.
- **Egg Quality:** Oxidative stress can negatively impact eggshell quality and internal egg characteristics. By reducing oxidative damage, TocoSel-N contributes to stronger eggshells, reduced instances of hairline cracks, and better albumen and yolk quality.

- Hatchability: Healthy embryonic development is highly dependent on adequate nutrient supply and protection from oxidative stress. The superior absorption and antioxidant reinforcement provided by TocoSel-N ensure optimal conditions for embryonic development, leading to higher hatchability rates and stronger chicks.

Conclusion

TocoSel-N, with its innovative blend of Nano-Selenium and Vitamin E, represents a significant advancement in poultry nutrition. By leveraging the superior bioavailability of

Nano-Selenium and the potent antioxidant properties of Vitamin E, TocoSel-N effectively enhances the antioxidant status, bolsters immune resilience, alleviates stress, and profoundly improves reproductive outcomes in poultry. This synergistic formulation provides a comprehensive solution for producers aiming to optimize flock health, productivity, and sustainability in an increasingly demanding industry. The unique characteristics of TocoSel-N make it an invaluable tool for promoting overall well-being and economic viability in poultry operations.



The team of self-motivated individuals who have come forward to promote the common cause of the poultry industry. The editor is extremely delighted to see the support, which is charged towards making the coming exhibition a grand success.

Avitech Nutrition announces the launch of Toco Sel-N- a synergistic blend of Nano Selenium and Vitamin E

Avitech Nutrition announces the launch of TocoSel-N, a synergistic blend of Nano Selenium and Vitamin E that incorporates the advantages of nanotechnology to modern poultry nutrition. TocoSel-N is specifically formulated to enhance poultry health, immunity and reproductive performance.

The Nano-Selenium in TocoSel-N offers superior absorption, targeted tissue delivery, and a safer profile compared to traditional selenium sources. Combined with the antioxidant strength of Vitamin E, it provides a powerful boost to the bird's immune system, antioxidant defence, and stress resilience.

Key benefits include:

- **Improved fertility, egg quality, and hatch ability**
- **Strengthened immunity and enhanced vaccine response**
- **Protection against oxidative stress and nutritional deficiency disorders**
- **Better meat and egg quality**

For more information: visit www.avitechnutrition.com.

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:

<ul style="list-style-type: none"> ➤ Commercial Layer Management. ➤ Commercial Broiler Management ➤ Nutrition (Feed Formulations). ➤ Breeder Management. ➤ Sales & Marketing of Day-Old commercial Layer chicks, Broiler chicks & Poultry Feed. 	<ul style="list-style-type: none"> ➤ Sales & Marketing of Broiler Breeder. ➤ Integration. ➤ Training to Field staff. ➤ Field Trial of Drugs & Feed additives. ➤ Speaker in Technical Seminars.
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Mob.No : 09644233397, 07746013700, Res. 0771-4270230

Email : drmanu69@gmail.com

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



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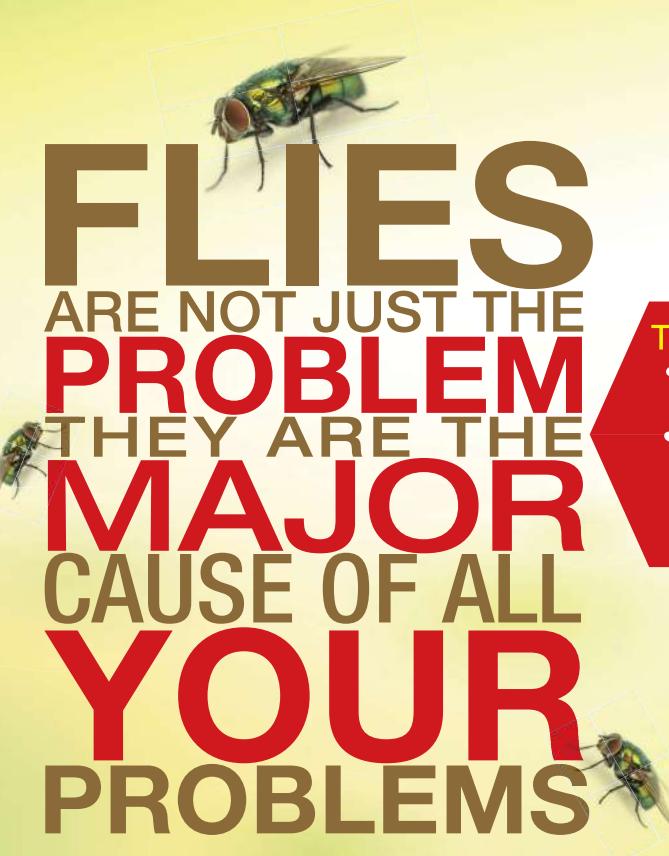


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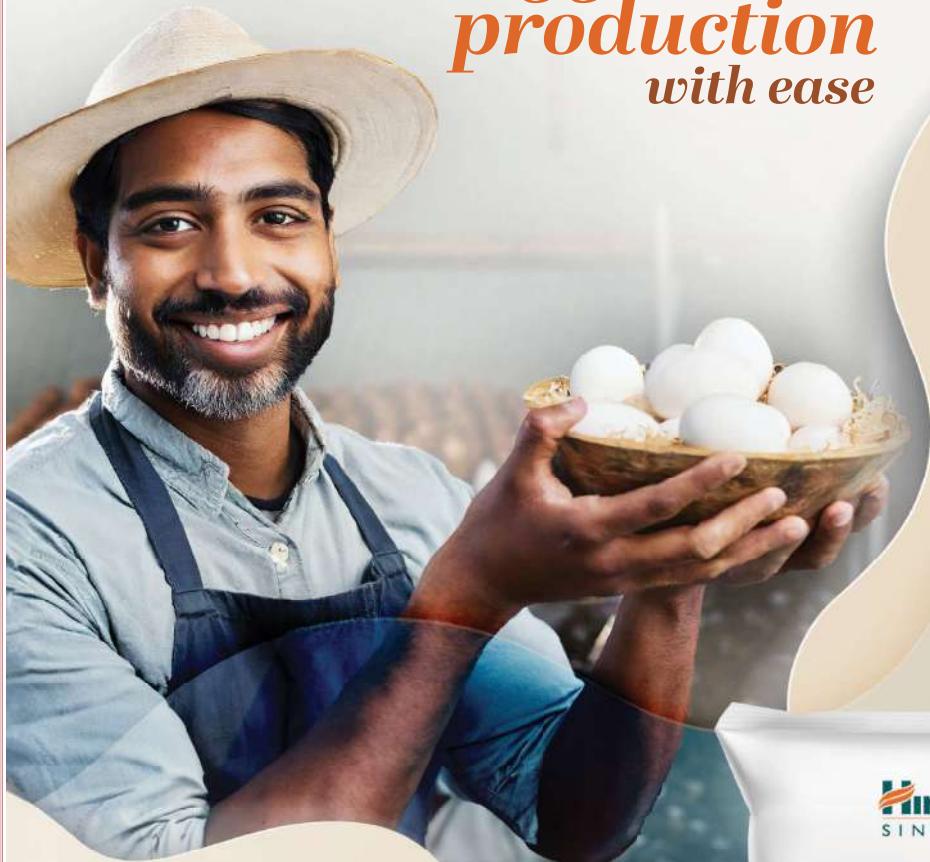
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कड़कनाथ का मांस एवं अंडा: एक समीक्षा

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पशुधन उत्पाद प्रौद्योगिकी विभाग

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परिचय

पोल्ट्री से तात्पर्य विभिन्न प्रयोजनों के लिए पाले जाने वाले पालतू पक्षियों से है, मुख्यतः उनके मांस और अंडों के लिए। पोल्ट्री के कुछ सामान्य प्रकारों में मुर्गियां, टर्की, बत्तख, गीज़ और बटेर शामिल हैं। पोल्ट्री उत्पादों की मांग को पूरा करने के लिए इन पक्षियों को विशेष रूप से पोल्ट्री उद्योग के भीतर पाला और प्रबंधित किया जाता है। भारतीय पोल्ट्री क्षेत्र ने पिछले दशकों में बहुत तेजी से विकास किया है; परिणामस्वरूप भारत दुनिया में अंडा उत्पादन में तीसरे स्थान और ब्रॉयलर उत्पादन में पांचवें स्थान पर है। भारत की कुल पोल्ट्री आबादी 851.81 मिलियन है जो पिछली जनगणना से 16.8% अधिक है। भारत में कुल मांस उत्पादन लगभग 10MT है जिसमें से पोल्ट्री मांस का उत्पादन 4.5MT है (pib.gov.in)। भारत की 20 पंजीकृत मुर्गी नस्लों में से कड़कनाथ एक प्रसिद्ध नस्ल है कड़कनाथ मुर्गियाँ अब 20 भारतीय राज्यों के 117 ज़िलों में पाई जाती हैं, साथ ही कुछ एशियाई देशों में भी। जबकि कुल मिलाकर बाजार बढ़ रहा है, झाबुआ, मध्य प्रदेश जैसे विशिष्ट क्षेत्रों में आबादी में गिरावट की रिपोर्ट मिली है, जहाँ इस नस्ल की उत्पत्ति हुई थी। यह उच्च मांग और आनुवंशिक क्षरण जैसे कारकों के कारण हो सकता है। इन क्षेत्रों में भील और भीलाला जैसी स्वदेशी जनजातियों ने पारंपरिक रूप से इस नस्ल को अपने मुर्गी पालन प्रथाओं के हिस्से के रूप में पाला है। समुदायों ने, विशेष रूप से, पीढ़ियों से कड़कनाथ को बनाए रखा है, इसे अपनी सांस्कृतिक परंपरा, भोजन और औषधीय आदतों में एकीकृत किया है। (स्वाति एट अल)। यह नस्ल अपने अद्वितीय काले रंग के कारण उल्लेखनीय है, जो उच्च मेलेनिन के स्तर के कारण इसके पंख, त्वचा, मांस, हड्डियों और आंतरिक अंगों तक फैली हुई है। पर्यावरणीय परिस्थितियों के लिए इसकी अनुकूलनशीलता, रोग प्रतिरोध ने ग्रामीण कृषक समुदायों के बीच इसके अस्तित्व और स्थायित्व में योगदान दिया है।

कड़कनाथ को 2018 में भौगोलिक संकेत (जीआई) टैग प्रदान किया गया था, जो आधिकारिक तौर पर अनूठी विशेषताओं के कारण मध्य प्रदेश की मूल मुर्गी नस्ल के रूप में अपनी स्थिति स्थापित करता है (फाइनेंशियल एक्सप्रेस/उद्धृत 5/6/25)

एक सफेद लेगहॉर्न मुर्गी को साल के 365 दिनों में 320-330 अंडे देने के लिए चुना जाता है, जबकि कड़कनाथ मुर्गी एक साल में लगभग 120-130 अंडे देती है और उसे सफेद लेगहॉर्न मुर्गी के बराबर ही चारा मिलता है। कड़कनाथ को ब्रॉयलर मुर्ग के आधे वजन तक पहुँचने में लगभग तीन गुना समय लगता है। कड़कनाथ 12 साल की उम्र तक जीवित रहता है और अधिकतम 2 किलोग्राम वजन ही बढ़ा पाता है। कड़कनाथ को पालने की लागत एक नियमित मुर्गी की तुलना में लगभग चार गुना अधिक है।



कड़कनाथ मुर्ग के अंडे पोषण संबंधी लाभ

अधिक प्रोटीन: कड़कनाथ चिकन और अंडे में सामान्य अंडे की तुलना में 25% तक अधिक प्रोटीन होता है; प्रति 100 ग्राम, उनमें लगभग 11.7 ग्राम प्रोटीन होता है, जबकि सामान्य अंडे में 6-7 ग्राम प्रोटीन होता है।

कम वसा और कोलेस्ट्रॉल: ब्रॉयलर अंडे (13-25%-वसा, 218mg-कोलेस्ट्रॉल) की तुलना में उनमें काफी कम वसा (0.7-1%) और कोलेस्ट्रॉल (60mg/100g) होता है।

अच्छे सूक्ष्म पोषक तत्व: ये अंडे आवश्यक विटामिन (बी1, बी2, बी6, बी12, सी, ई), खनिज (लौह, फास्फोरस, कैल्शियम), एंटीऑक्सीडेंट और ओमेगा-3 से भरपूर होते हैं।

जेट ब्लैक, पैसिल्ड और गोल्डन कड़कनाथ नस्ल की तीन किस्में हैं जेट ब्लैक, पैसिल्ड और गोल्डन कड़कनाथ नस्ल की तीन किस्में हैं। कड़कनाथ नस्ल अपने काले मांस के लिए लोकप्रिय है और इसे ब्लैक मीट चिकन या कालामासी के नाम से जाना जाता है। कड़कनाथ चिकन नस्ल अपने मांस की गुणवत्ता, बनावट और स्वाद के लिए प्रसिद्ध है। इस नस्ल के मांस को इसके कथित स्वाद और सुगंध के कारण एक स्वादिष्ट व्यंजन माना जाता है। इसके अलावा, इसका मांस 20 सप्ताह की उम्र में वर्ध की गई असील नस्ल की तुलना में कड़कनाथ की जांघ और स्तन की मांसपेशियों में नमी की मात्रा अधिक थी। स्तन की

मांसपेशी में प्रोटीन की मात्रा उल्लेखनीय रूप से अधिक थी, जबकि जांघ की मांसपेशी में वसा की मात्रा उल्लेखनीय रूप से अधिक थी। कड़कनाथ और असील की मांसपेशियों में प्रोटीन और वसा के प्रतिशत में कोई अंतर नहीं देखा गया (हॉशी एट अल., 2013बी)। हालांकि, असील, वनराजा और व्यावसायिक ब्रॉयलर की तुलना में कड़कनाथ के मांस से तैयार इमल्शन और नगेट्स में प्रोटीन की मात्रा अधिक थी, जबकि वसा और नमी की मात्रा कम थी (सिंह एट अल. 2016)। व्यावसायिक ब्रॉयलर मुर्गियों की तुलना में कड़कनाथ के मांस में पोषक तत्वों की मात्रा के तुलनात्मक आकलन पर विस्तृत जांच की आवश्यकता है। यह पाया गया है कि कड़कनाथ के मांस में कुल प्रोटीन की मात्रा 25.47 प्रतिशत होती और उनमें वसा और कोलेस्ट्रॉल कम होता है। एक अन्य रिपोर्ट में, कड़कनाथ के मांस में वसा की मात्रा 0.73-1.03 प्रतिशत, अन्य चिकन नस्लों में 13-25 प्रतिशत थी, जबकि कोलेस्ट्रॉल का स्तर कड़कनाथ के मांस में 184.75 मिलीग्राम/100 ग्राम और अन्य नस्लों में 218.12 मिलीग्राम/100 ग्राम था। यह बताया गया है कि देशी मुर्गी की नस्ल में कम कोलेस्ट्रॉल की मात्रा इन पक्षियों को उच्च चयापचय गतिविधि के कारण दुबला बनाती है। कड़कनाथ के मांस में 18 अमीनो एसिड के उच्च स्तर पाए जाते हैं, जिनमें से 8 मनुष्यों के लिए आवश्यक हैं। अमीनो एसिड का स्तर, विशेष रूप से वे जो मांस को मीठा और उमामी (स्वादिष्ट) स्वाद प्रदान करने के लिए जाने जाते हैं, कड़कनाथ में अधिक थे।



कड़कनाथ मांस की अनुमानित संरचना

क्रम संख्या	पैरामीटर	प्रतिशत
1	नमी	73-75
2	प्रोटीन	18-25
3	वसा	0.73-1.03
4	राख	1.01
5	फॉस्फोरस	0.18
6	कैल्शियम	0.08
7	कोलेस्ट्रॉल	184.75 मिलीग्राम/100 ग्राम
8	सकल ऊर्जा	1557.67 ± 31.99 (किलो कैलोरी/किलोग्राम)

गणराज एट अल.,

(2020)

मैसूर स्थित केंद्रीय खाद्य प्रौद्योगिकी एवं अनुसंधान संस्थान (सीएफटीआरआई) ने कड़कनाथ के मांस के औषधीय गुणों का अध्ययन किया और पाया कि यह हृदय रोगियों के लिए उपयुक्त है, क्योंकि यह हृदय में आपूर्ति बढ़ाता है (pureecoindia.in)। कम्युनिकेशंस की एक हालिया रिपोर्ट कि काला मांस एथरोस्क्लेरोसिस का सकारात्मक उपचार कर सकता है, अधिक लिनोलिक एसिड और कम कोलेस्ट्रॉल का मतलब है स्ट्रोक, दिल और अन्य आवश्यक हृदय स्थितियों सुरक्षा। यह हीमोग्लोबिन संश्लेषण और एंजियोजेनेसिस में सुधार के कारण हो सकता है।



रक्त की नेचर बताती है क्योंकि के दौरे से

(<https://www.hindustantimes.com/>)। यहां तक कि चीनी लोग भी कई वर्षों से विभिन्न बीमारियों के इलाज के लिए अपने काले मांस वाले चिकन का पारंपरिक तरीके से उपयोग कर रहे हैं। कड़कनाथ का मांस महिलाओं की चर्चा, बांझपन, मेनोक्सेनिक (असामान्य मासिक धर्म), आदतन गर्भपात के इलाज में कामोद्दीपक गुण और अनोखी प्रभावशीलता भी दिखाता है, हालांकि इनसे संबंधित वैज्ञानिक अध्ययन कम हैं। होम्योपैथी और एक विशेष तंत्रिका विकार में कड़कनाथ का विशेष औषधीय महत्व है। कड़कनाथ का मांस फुफ्फुसीय समस्याओं में सहायक होता है। कड़कनाथ मुर्ग के मांस में मजबूत एंटीऑक्सीडेंट गुण भी होते हैं, जो इसके स्वास्थ्य लाभों में योगदान करते हैं। प्राकृतिक एंटीऑक्सीडेंट की मौजूदगी से पता चलता है कि कड़कनाथ के मांस का खाद्य, न्यूट्रास्युटिकल और कॉस्मेटिक उद्योगों में संभावित अनुप्रयोग हो सकते हैं। कड़कनाथ के मांस में मूल्य संवर्धन की भी उच्च क्षमता है।

निष्कर्ष

कड़कनाथ का मांस अत्यधिक पौष्टिक प्रोटीनयुक्त भोजन है जिसमें वसा और कोलेस्ट्रॉल की मात्रा कम होती है और इसमें सभी अमीनो एसिड और विटामिन होते हैं और इसकी औषधीय और न्यूट्रास्युटिकल गुणवत्ता के कारण इसकी बाजार में कीमत अधिक होती है। इसके लाभों के बावजूद, कड़कनाथ को कम उत्पादकता और व्यावसायिक नस्लों से प्रतिस्पर्धा जैसी चुनौतियों का सामना करना पड़ता है। हालांकि, जैविक और पोषक तत्वों से भरपूर खाद्य पदार्थों की बढ़ती मांग इसके संरक्षण और व्यावसायीकरण के लिए नए अवसर प्रस्तुत करती है। कड़कनाथ की खेती का समर्थन करने से न केवल आनुवंशिक विविधता को संरक्षित करने में मदद मिलती है, बल्कि ग्रामीण आजीविका और टिकाऊ कृषि को भी मजबूती मिलती है, जिससे यह स्वास्थ्य के प्रति जागरूक उपभोक्ताओं और पोल्ट्री उद्योग दोनों के लिए एक मूल्यवान संपत्ति बन जाती है।

संदर्भ।

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NATIONAL EGG CO-ORDINATION COMMITTEE
DAILY/MONTHLY EGG PRICES SUGGESTED BY NECC AND PREVAILING PRICES AT VARIOUS PRODUCTION CENTRES (PC) AND CONSUMPTION CENTRE (CC)
FOR THE MONTH OF JULY-2025

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	Average			
	NECC SUGGESTED EGG PRICES																																	
Ahmedabad	595	600	600	600	600	600	600	600	580	560	560	530	500	500	500	-	500	500	500	500	500	-	480	480	460	-	-	-	-	545.43				
Ajmer	550	550	550	515	515	520	525	525	500	490	480	470	465	465	460	460	460	460	460	440	440	-	420	420	405	-	-	-	-	482.8				
Barwala	521	521	501	496	478	475	475	475	463	460	460	460	460	460	460	442	438	-	420	418	418	403	-	-	-	-	-	-	-	463.8				
Bengaluru (CC)	620	620	620	620	620	620	620	620	600	600	580	580	580	580	580	580	580	580	580	580	580	560	545	525	525	-	-	-	-	566.15				
Brahmapur (OD)	585	585	570	560	550	550	540	540	530	530	520	505	510	510	515	515	515	517	519	519	500	490	490	470	-	-	-	-	-	525.38				
Chennai (CC)	640	640	640	640	640	640	640	640	620	610	590	590	590	590	590	570	570	570	550	550	530	510	-	-	-	-	-	-	-	597.2				
Chittoor	633	633	633	633	633	633	633	633	613	603	583	583	583	583	583	563	563	563	543	543	523	503	-	-	-	-	-	-	-	566.85				
Delhi (CC)	540	540	540	540	520	520	505	505	495	485	480	480	480	480	480	480	480	480	480	480	460	452	438	-	-	-	-	-	-	-	493.65			
E.Godavari	570	570	570	535	535	535	535	515	515	515	490	493	496	496	496	500	500	503	505	505	505	505	505	505	505	505	505	-	-	-	-	513.62		
Hospet	570	570	570	570	570	570	570	570	550	550	530	530	530	530	530	530	530	530	530	530	530	510	495	475	475	-	-	-	-	-	536.15			
Hyderabad	570	575	575	560	560	560	560	560	540	510	510	510	510	510	510	510	510	510	510	510	510	510	510	510	480	480	450	425	-	-	-	517.5		
Jabalpur	595	601	591	580	580	570	560	550	540	530	530	520	510	510	500	500	500	500	500	500	500	500	490	480	465	435	421	-	-	-	526.5			
Kolkata (WB)	640	610	600	600	590	590	580	580	560	560	560	565	565	575	575	575	580	580	580	545	545	545	520	-	-	-	-	-	-	-	577.12			
Ludhiana	521	521	521	495	495	474	474	474	474	474	461	461	461	461	461	461	461	461	461	461	438	432	432	418	-	-	-	-	-	470.23				
Mumbai (CC)	630	635	635	620	620	610	600	585	570	570	570	560	560	560	560	560	560	560	560	560	560	560	540	-	510	495	485	-	-	-	576.4			
Mysuru	625	625	625	625	625	625	625	625	610	610	590	590	590	590	590	590	590	590	590	590	565	565	545	525	-	-	-	-	-	595.2				
Namakkal	575	575	575	575	575	575	575	575	555	555	535	535	535	535	535	535	535	535	535	535	515	515	500	480	480	-	-	-	-	541.15				
Pune	630	635	635	615	615	610	600	585	570	570	570	560	560	560	560	560	560	560	560	560	560	560	540	-	530	515	495	485	-	-	-	574.42		
Raipur	578	585	580	570	555	555	535	525	515	515	505	500	490	490	490	490	490	490	490	490	490	490	480	470	450	440	425	-	-	-	513.58			
Surat	610	615	620	625	625	615	610	600	585	570	570	550	540	520	520	520	520	520	520	520	520	520	505	475	475	-	-	-	-	-	558.26			
Vijayawada	590	590	590	570	570	570	550	540	525	515	515	515	515	515	515	515	515	515	515	515	515	515	505	505	505	505	505	-	-	-	534.62			
Vizag	585	585	585	560	560	560	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	520	485	465	465	-	-	-	-	541.35			
W.Godavari	570	570	570	535	535	535	515	515	515	515	515	490	493	496	496	496	500	500	503	505	505	505	505	505	505	505	505	-	-	-	513.62			
Warangal	572	577	577	562	562	562	542	512	512	512	512	512	512	512	512	512	512	512	512	512	512	512	482	482	452	427	-	-	-	519.5				
Allahabad (CC)	595	595	581	576	571	571	562	548	538	533	529	529	519	514	514	514	514	514	514	514	514	514	505	505	495	490	486	486	481	-	-	-	532.54	
Bhopal	590	600	600	590	570	560	550	540	530	530	520	510	510	500	490	490	460	460	460	460	460	430	-	-	-	-	-	-	-	-	523.46			
Indore (CC)	580	580	480	560	550	550	555	555	540	520	510	500	495	495	485	485	485	475	475	475	465	465	445	430	-	-	-	-	-	-	-	506.35		
Kanpur (CC)	567	567	567	567	567	567	567	567	548	533	524	500	500	486	486	486	486	486	486	486	486	471	471	471	471	-	-	-	-	-	513.46			
Luknow (CC)	595	595	595	595	595	595	567	567	567	567	567	567	567	567	567	567	567	567	567	567	567	567	517	517	500	490	490	490	-	-	-	545.85		
Muzaffarpur (CC)	585	585	585	565	565	560	560	540	540	540	530	530	530	530	530	530	530	530	530	530	530	530	530	530	530	530	530	-	-	-	533.2			
Nagpur	605	610	615	595	580	570	570	550	550	540	535	535	535	535	535	535	535	535	535	535	535	520	520	510	510	510	510	490	450	-	-	-	542.89	
Paina	585	585	585	565	560	540	540	540	540	530	530	530	530	530	530	530	530	530	530	530	530	530	530	530	530	530	530	500	485	485	470	-	-	533.2
Ranchi (CC)	590	590	590	590	590	590	580	571	562	548	548	543	543	543	543	524	524	524	524	524	524	524	514	514	514	514	514	514	505	500	500	-	-	545
Varanasi (CC)	567	567	560	560	560	560	540	540	533	524	524	517	517	517	517	517	517	517	517	517	517	517	500	500	483	483	483	473	467	-	-	-	518.38	

Broiler Lifting Rates for the month of JUNE_2025

place	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Hyderabad	110	110	107	105	110	110	110	110	110	105	100	100	97	97	97	91	91	93	93	98	103	103	103	103	98	93	90	90	90	-	
Karimgagar	110	110	107	105	110	110	110	110	110	105	100	100	97	97	97	91	91	93	93	98	103	103	103	103	98	93	90	90	90	-	
Warangal	110	110	107	105	110	110	110	110	110	105	100	100	97	97	97	91	91	93	93	98	103	103	103	103	98	93	90	90	90	-	
Mahaboobnagar	110	110	107	105	110	110	110	110	110	105	100	100	97	97	97	91	91	93	93	98	103	103	103	103	98	93	90	90	90	-	
Kurnool	110	110	107	105	110	110	110	110	110	105	100	100	97	97	97	91	91	93	93	98	103	103	103	103	98	93	90	90	90	-	
Vizag	106	106	101	101	101	101	101	101	101	96	96	96	90	90	85	85	85	87	89	91	94	94	94	94	89	89	84	84	84	-	
Godavari	114	114	109	109	114	114	114	114	114	109	109	109	100	100	100	95	95	95	97	99	102	105	105	105	105	105	100	100	95	95	-
Vijayawada	114	114	109	109	114	114	114	114	114	114	109	109	109	100	100	100	95	95	97	99	102	105	105	105	105	105	100	100	95	95	-
Guntur	117	117	112	112	117	117	117	117	117	112	112	112	112	112	112	112	112	112	103	103	100	100	102	104	107	110	110	110	105	100	100
Ongole	117	117	112	112	117	117	117	117	117	112	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nammakkal	117	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	106	106	106	106	106	108	108	108	108	98	-	



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