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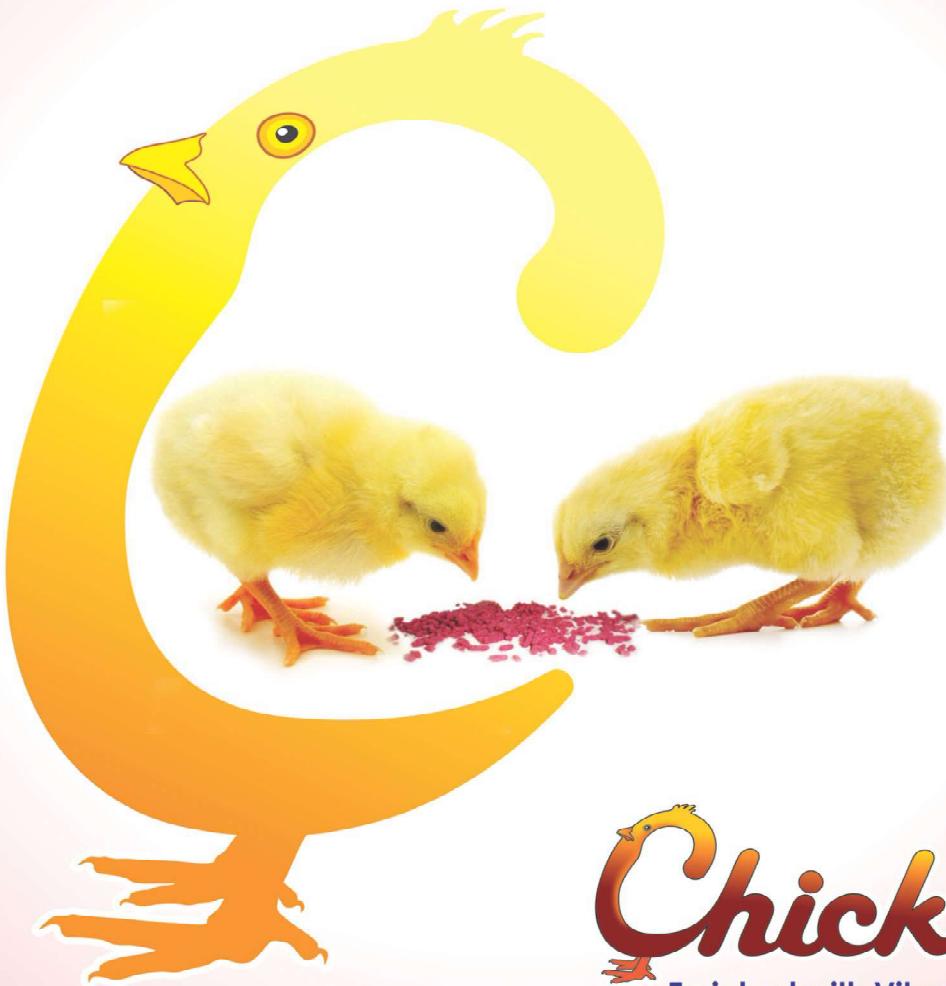
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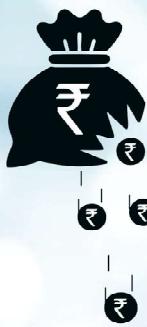
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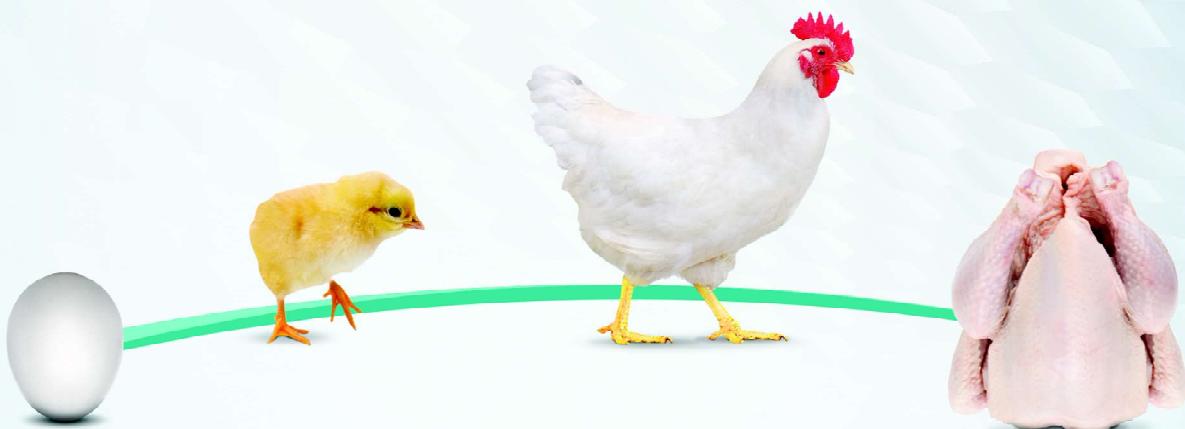
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From the Editor's Desk..... 



Think it over!

Indians have a meteoric rise in the World Stage today. Though India is among the worlds oldest civilizations with scores of unique contributions to the world- yet was strategically and clandestinely projected as a country of poor, snake charmers and down trodden country. This was the momentum of the colonization despite the independence of more than seven decades. Our earlier governments were unknowingly or clandestinely were a party to that agenda- is a debatable and controversial subject.

While the image, influence & power of India is on the rise recently, some of the opposition and liberals out-class even our enemies. Thanks to ease of information today in India- the people are better informed and fail to fall victims of the engineered molding of the paid media.

The recent exposure of George Soros investing millions to uproot the current prime minister- is an open onslaught on the democratic values of India. In the largest vibrating and successful democracy - the people's verdict is sanctum and valued by one and all. Indian people are well informed today and are no more going to be a victim of false propaganda. Maybe in the past India was remotely manipulated by the influential and the powerful - that is changing now.

We see how India displayed and rushed its unequalled immediate humanitarian help to Turkey! Turkey- is the only strongest criticizer of India in Kashmir and a loyal supporter of Pakistan in all global forums. It believed Pakistan version that the Indian Muslims are the victims in India. India now is not afraid and is also capable of showing to the world its values towards Humanity under "Vasudaivika Kutumbakam".

Indian image in world is growing in stature. It's good to see how the current government is able to achieve that enviable feat !

The tragedy is anything is possible today- ofcourse all possibilities have exceptions- there comes our Poultry ! The world may unite, the country may unite to an idea but our Poultry are miles away from the very idea! We have associations, federations, Committees that can never see eye to eye- which is suicidal.

You name any industry in India they all have progressed qualitatively and quantitatively but Poultry still remains an exception- why?

Think it over!

FORM IV

Statement about ownership and other particulars about newspaper **POULTRY LINE** to be published in the first issue every year after the last day of February.

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Address : Nallakunta, Hyderabad
6. Names and addresses of individuals who own the newspaper and partners or shareholders holding More than one per cent of the total capital.

I, B. Shiv Shankar, hereby declare that the particulars given above are true to the best of my knowledge and belief.

Date: 01-03-2023

Sd/-



(B. Shiv Shankar)

9th Edition of Kolkata International Poultry Fair



9th.KIPF 2023

The 9th Kolkata International Poultry Fair this year is historic and memorable for all of us; after the 8th KIPF2020 we could not organise fair for two years (2021 & 2022 due to Covid'19). Again, we have started the same from 2023.

8th February

This year, to propagate the knowledge and modern technology we have introduced a full day "NOVACON" International conference on POULTRY BUSINESS on 08.02.23 at Novotel Hotel, Kolkata, where the eminent speakers from the different parts of India and abroad will deliver their lectures for the poultry farmers and poultry related persons.

9th February

A colourful inauguration of the event was organized in presence of Sri Swapan Debnath(Hon.Minister Dept of Animal Resources and Development), Sri Biplab Roy Chowdhury(Hon.Minister Dept of Fisheries), Swami Kailashananda Maharaj Jee(Controller of examination,Ramkrishna Mission Bibekananda Educational and Research Institution,Belur Math), (Dr.) Tapan Kumar Mandal, Vice-Chancellor of West Bengal University of Animal

and Fisheries Sciences, Dr. Purnendu Biswas, former Vice-Chancellor of the University, Sri Niraj Kumar Srivastava, Chairman, Compound Livestock Feed Manufacturers Association of India (CLAFMA), Sri P. Chakradhar Rao, The Indian Poultry Equipment Manufacturers Association, Dr. Vijay Makhija, President, INFAH, Pankaj Deka, Associate Professor

(Dr.) of the Department of Veterinary Microbiology, Assam Agricultural University was specially honoured for developing the "Innovative Thermostable Ranikhet Disease Vaccine".

At the end of the program, Senior Vice President of Poultry Federation Samir Agarwal thanked everyone for making the entire event a success. Dr. Yograj Tamang, Director, Department of Livestock Development, West Bengal, Sri Sumit Kumar Ghosh, Vice President and others were also present on the occasion. The entire event was conducted beautifully by Dr. Kaushik Dey. Various poultry producers, businessmen, industrialists, zoologists, professors, more than a thousand people associated with the poultry industry attended the inaugural ceremony at the Science City Auditorium.

On the opening day afternoon one of the famous dances of Tripura known as Hojagiri dance will be performed by the "Reang Dance Troup", Tripura.

10th February

The special attraction of the third day of the fair(10TH.Feb) is the "Scientific Seminar" almost throughout the day at the Science City Auditorium. Purnendu Biswas, former Vice-Chancellor (DR) of



West Bengal University of Animal and Fisheries Sciences delivered the inaugural address at the seminar.

Speakers in the Technical Seminar are as follows:

- (1) Dr. Ajay Chalikwar of Provet Pharma discussed "Gut Health: Its Impact on Poultry Performance".
- (2) Dr. Balai Chandra Dutta, leading poultry consultant, made a presentation on "High prevalence of poultry diseases in recent days".
- (3) "Phylogenics: Plant Energy for a Sustainable Future" beautifully presented by Natural Remedies Dr. Chandan Chatterjee.
- (4) Dr. Pushparaj Chowdhury of Bohringer Ingelheim made a presentation on "Three Generation Infection Bursal Disease (Gamboro) Vaccine".
- (6) Dr. Akshay Anil Shewalkar of Shalimar Hatchery discusses "why choose a healthy processed chicken through processing".

Madan Mohan Maiti, general secretary of The West Bengal Poultry Federation, thanked everyone in his concluding speech, whose contribution to the success of the entire event is undeniable. The entire event was conducted very beautifully efficiently by Dr. Partha Das. He presents a very

nice specific introduction to the speakers mentioned before each presentation.

Sachindranath Mondal (Chief Executive Officer, Global Operations, Tresbein Biosynth), Dr Shekhar Basak (Chairman and Managing Director, Inovista), Abir Mukherjee (Managing Director, Glamac) were specially felicitated by the Poultry Federation for their outstanding contribution and outstanding work in the poultry industry. Prof. (Dr.) Purnendu Biswas felicitated.

Among the 135 stalls of feed - medicine - vaccine - instruments - innovative companies associated with various leading poultry industries participating in this poultry fair, the stall of 'Live Stock Development Corporation' of the Department of Livestock Development is also noteworthy. About 600 students from 13 colleges attended the fair. Overall, about 30,000 people visit the entire fair premises and enjoy the fair on this day.

Bihar, Jharkhand, Odisha, Assam, Sikkim, Meghalaya, Manipur, Mizoram, Tripura, Arunachal Pradesh, and Nagaland, who have actively participated in this special event and share their advanced knowledge of poultry with poultry farmers and rural residents.

From neighbouring countries Bangladesh, Nepal participation was remarkable. Even from Spain and Nigeria there were tremendous participation.

We also invite family of whole poultry fraternity directly and indirectly related to poultry industry to make it relish of a real Poultry Festival.

Total recorded foot fall is 30000+

11th.February

Closinng ceremony was organized in science city auditorium in the presence of Madan Mohan Maiti (General Secretary, West Bengal Poultry Federation), Radheshyam Roy (Senior Vice President, West Bengal Poultry Federation), Abhiram Agarwal (Director, Power Group), T Srinidhi (CEO, Shivshakti Agro), Sandhya Rani (CEO, Poultry India) were present on the dais. Dr. Niren Das (General Secretary, Assam Poultry Association), Amit Kumar (Representative,

Jharkhand Poultry Federation), Dr. Malay Mitra (Editor, 'Poultry World' and 'Swasthya Vishwa Barta'), Dr. Sumit Jana (Assistant Director, West Bengal Livestock Development Department), Dr. Uddhav Sarkar (General Manager, Shalimar Group of Companies), Dr. B.K. Das (CEO , West Bengal Poultry Federation),Dr. Sulabh Chetia (Provet Pharma) etc. On behalf of the West Bengal Poultry Federation, all those present on the stage were specially felicitated with uttariyas, wreaths and mementos.

Next 10th.KIPF'2024 dates were declared by Mr.Madan Mohan Maity(General Secretary, West Bengal Poultry Federation) as below:

10th.KIPF will be held on 7th.8th.9th.Feb'24

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

PRESS RELEASE

West Bengal Poultry Federation (WBPF), Kolkata awarded Dr. Pankaj Deka with the "Outstanding Innovation Award"



West Bengal Poultry Federation (WBPF), Kolkata presented Dr. Pankaj Deka, Assistant Professor cum Assistant Virologist, Department of Veterinary Microbiology, College of Veterinary Science, Assam Agricultural University, the "Outstanding Innovation Award" for his contributions to poultry health, in particular the development and technology transfer of a thermostable vaccine against Ranikhet disease, one of the most economically important viral diseases of poultry. The successful development of the "Thermostable Live Newcastle Disease Virus Vaccine AAUPSD44C" is a result of

contribution and efforts of the team members Dr. Sangeeta Das, Dr. Rofique Ahmed and Dr. Pubaleem Deka under supervision of Dr. Deka. This vaccine will aid in prevention of vaccination failure due to disruption in the maintenance of cold-chain of vaccines especially in remote areas. As a mark of grateful acknowledgement of his accomplishments in service to the farming community in terms of biological development, disease diagnosis and consultation service, WBPF honoured him with the award in the 9th Kolkata International Poultry Fair 2023 held at Science City Exhibition Ground, Kolkata.

New Dynamic Leadership Team at CLFMA OF INDIA 2022-2024

CLFMA OF INDIA is a Non-Profit Organization and an Apex Chamber, nurturing "One Voice" of the Livestock Industry.

It was formed in the year 1967 with the objective of helping the promotion of overall animal husbandry, including the promotion of the concept of balanced feeding of animals in accordance with their nutritional requirements for deriving from them maximum output through productivity improvement. It was broad-based to include members from all sectors of livestock production during 2002.

CLFMA has a membership base of around 250 nos. representing Dairy, Aqua, Poultry, and other sectors related to the Indian Livestock Industry viz. manufacturers and suppliers of feed additives, raw materials, feed plant and machinery, Laboratory equipment and also breeders, integrators, meat processors and exporters, vaccine manufacturers, animal health, etc.

On 16th February, 2023, CLFMA's Election was held in the Extra-Ordinary General Meeting (EGM) and the new leadership team took charge for the period 2022-2024. The outgoing Chairman Mr. Neeraj Kumar Srivastava, Managing Director, South Asia & South – East Asia, Novus International, expressed his appreciation and conveyed his best wishes to the new team led by Mr. Suresh Deora, Director – S.A. Pharmachem Pvt. Ltd., who got elected as the new Chairman of CLFMA OF INDIA for the period 2022-2024.

Mr. Neeraj Kumar Srivastava outgoing Chairman said that, it was indeed a great pleasure to work with CLFMA as a Chairman and after 2 years



Mr. Suresh Deora
CLFMA Chairman

CLFMA has decided to appoint Mr. Suresh Deora, who is an accomplished, talented business leader having a vast experience in managing the businesses of Livestock Sector as a whole and is actively involved into Human & Animal Nutritional business.

Mr. Suresh Deora, is also the Chairman of Indian Red Cross Society – Mumbai, President and Trustee of KARM, Hon. General

Secretary of India – China Chamber of Commerce and Industry. He presides over many education institutes. He is a well-seasoned and networked businessman connected with many industry stakeholders including government authorities, BIS, FSSAI, etc and under his Stewardship, we anticipate CLFMA would continue to grow to greater heights.

He thanked Mr. Neeraj Kumar Srivastava and CLFMA and said that, it was a great honour to be appointed as Chairman in a renowned association like CLFMA, as it is the single leading voice of the Animal Husbandry Industry. He promised to do his level best to help CLFMA work for the benefit of its' members and the industry at large. He added that he was truly honoured and thrilled to carry the great legacy of many distinguished leaders, which has served the livestock industry for more than 5 decades. He promised to do his level best towards building the visibility of CLFMA, its image & reputation and working towards betterment of the livestock industry.

He also said that Mr. Neeraj Kumar Srivastava's team has done a great job especially with regard to government engagements and conducting relevant seminars during his tenure.



CLFMA Office Bearers 2022-2024

Following Office Bearers were elected for the period 2022 – 2024

1. Chairman : Mr. Suresh Deora, S. A. Pharmachem Pvt. Ltd.
2. Dy. Chairman : Mr. Sumit Sureka, Shivshakti Agro (India) Pvt. Ltd.
3. Dy. Chairman : Mr. Divya Kumar Gulati, Nurture Aqua Technology Pvt. Ltd.
4. Dy. Chairman : Mr. Naveen Pasuparthy, Nanda Feeds Pvt. Ltd.
5. Dy. Chairman : Mr. Sandeep Kumar Singh, Godrej Agrovet Ltd.
6. Hon. Secretary : Mr. Abhay Shah, Spectoms Engineering Pvt. Ltd.
7. Treasurer : Mr. Nissar F. Mohammed, Coastal Exports Corporation

8. Immediate Past Chairman : Mr. Neeraj Kumar Srivastava, Novus Animal Nutrition (India) Pvt. Ltd.

Executive Director : Ms. Chandrika Venkatesh

The other members of the Managing Committee 2022 - 2024 comprises of:

9. Dr. Prashant Shinde : Cargill India Pvt. Ltd.
10. Mr. Anil M : KSE Limited
11. Dr. Devender Hooda : Huvepharma SEA (Pune) Pvt. Ltd.
12. Mr. R. Ramkutty : Niswin Enterprises
13. Dr. Saikat Saha : Evonik India Pvt. Ltd.
14. Mr. Ramakanth V. Akula : The Waterbase Limited
15. Mr. Vijay Bhandare : Bhavani Agrovet Pvt. Ltd.
16. Mr. Abhay Parnerkar : Godrej Tyson Foods Ltd.
17. Mr. R. Lakshmanan : Shanthi Feeds Pvt. Ltd.
18. Mr. Balaram Bhattacharya : Indian Herbs Specialities Pvt. Ltd.
19. Mr. K. Narendra Reddy : Natural Remedies Pvt. Ltd.
20. Dr. Anup Kalra : Ayurvet Limited
21. Dr. Vijay Makhija : Intervet India Pvt. Ltd.
22. Mr. Jaison John : U. S. Soybean Export Council, Inc.



CLFMA Managing Committee 2022-2024

PRESS RELEASE

Directorate of Research (VETY), Assam Agricultural University Honoured Dr Niranjan Kalita

Directorate of Research (Vety); Assam Agricultural University, Khanapara has honoured Dr Niranjan Kalita, Director of Research (Vety), AAU, Khanapara on the occasion of his retirement on 31st January 2023. The team of Poultry Line wishes Dr Kalita ji a happy, Prosperous and peaceful retirement life.



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- Prevent catastrophic mortality
- Produce healthy eggs and meat from chicken's

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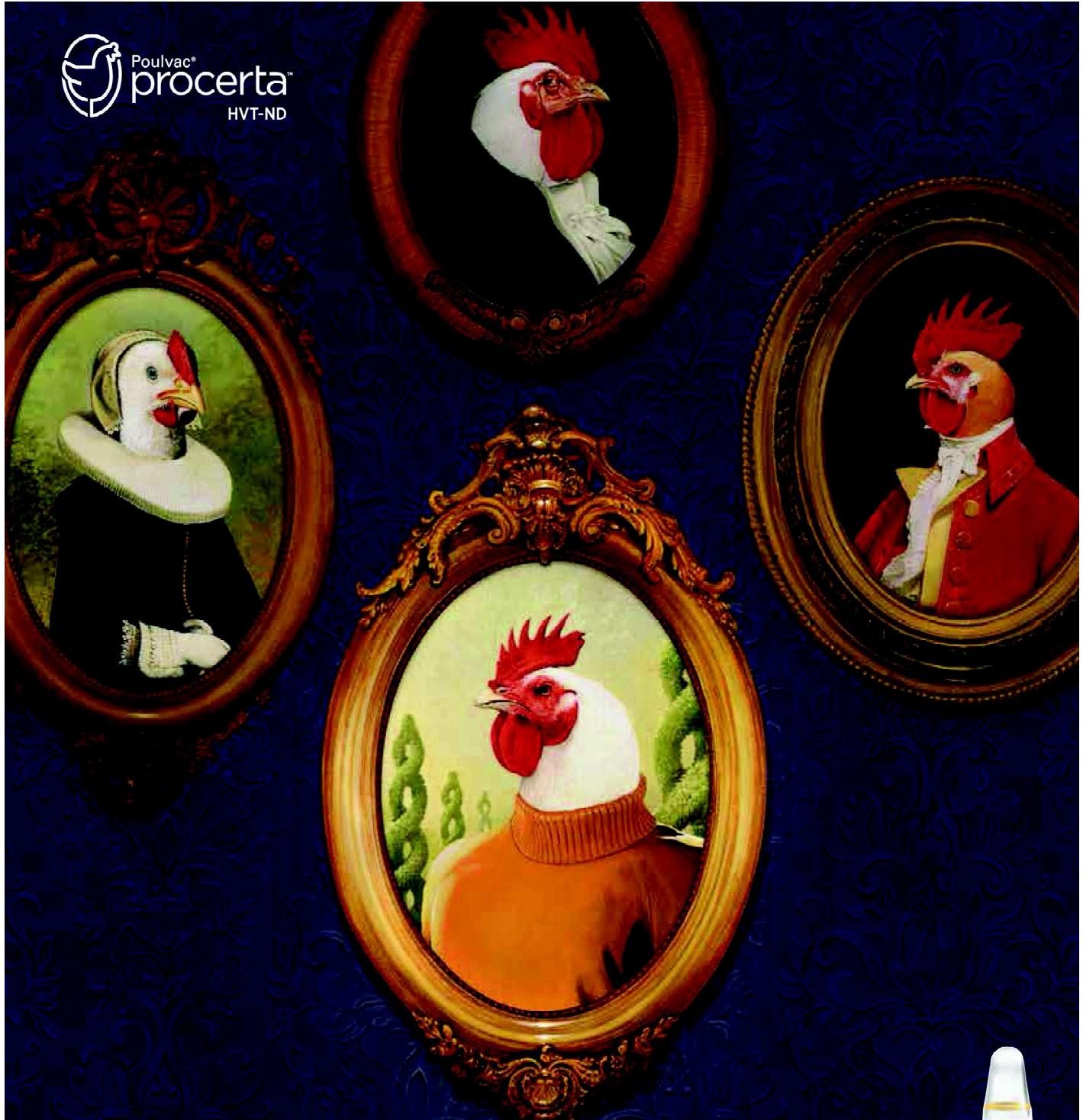
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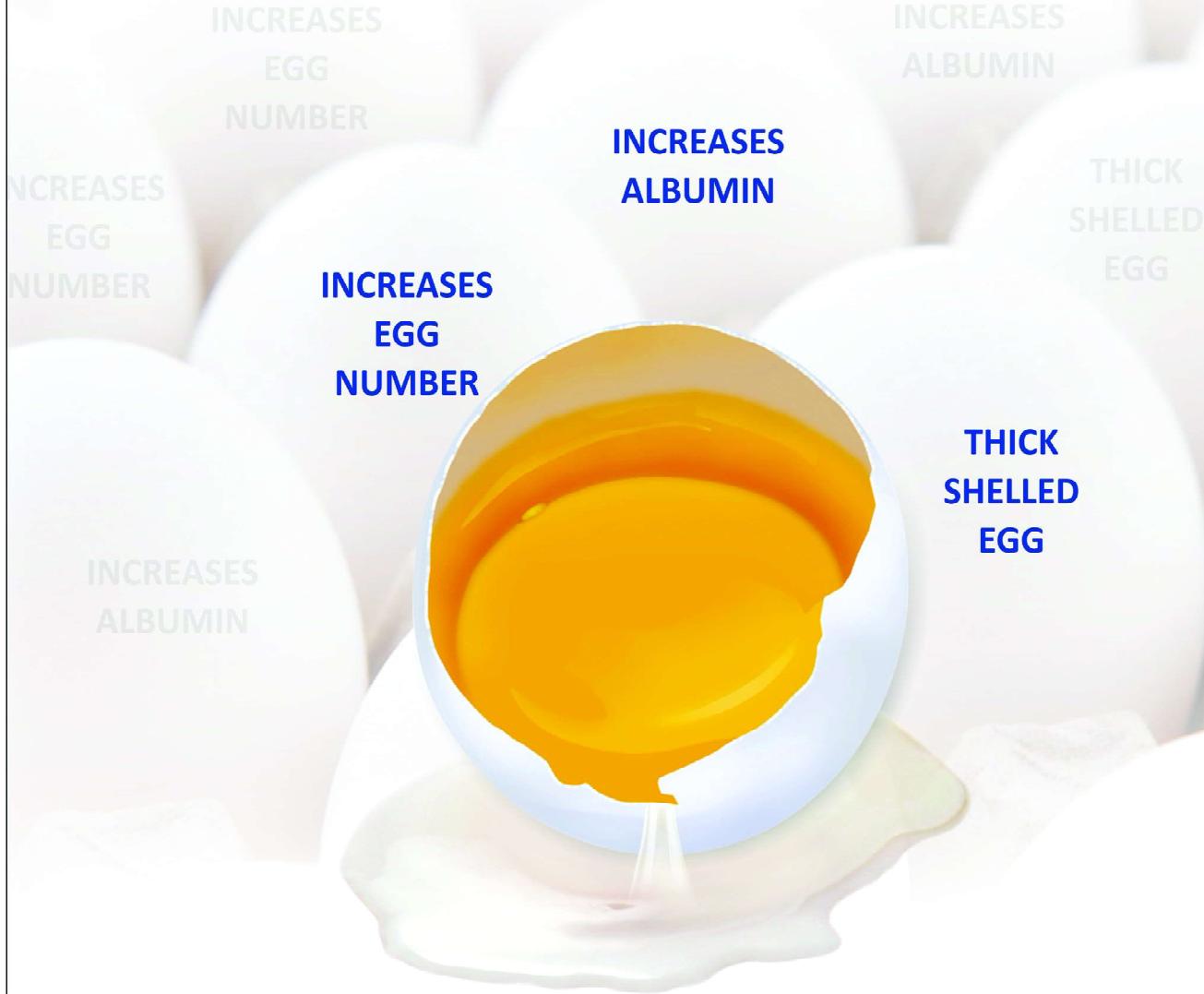


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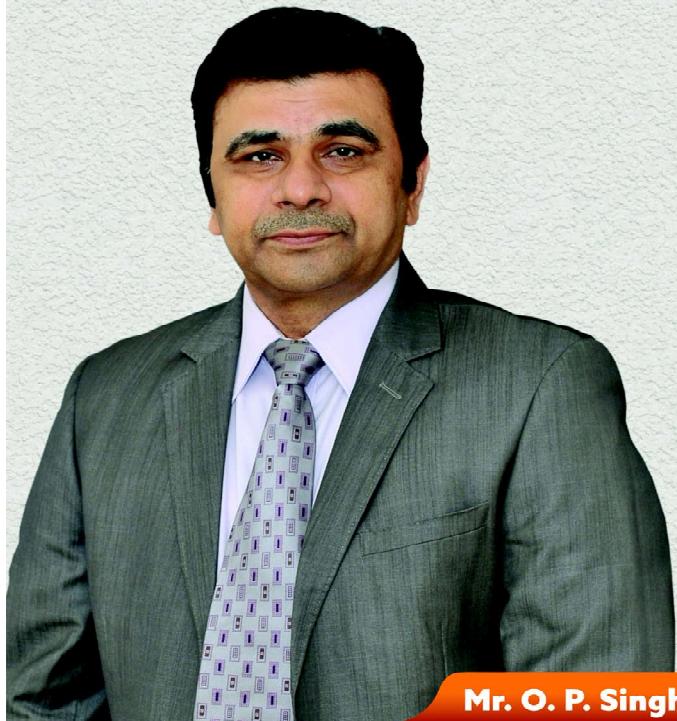
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EVERLASTING MEMORIES FROM 9TH KOLKATA INTERNATIONAL POULTRY FAIR 2023





Mr. O. P. Singh

CHICKEN MEAT INDUSTRY FAST ADAPTING TO CHANGING TIMES

Historic existence of Indian Poultry Industry from the last 50 years not only have created many milestones but also evolved as major rural employment generator producing the ultimate protein. Poultry meat production increased from 3.725 million tons in 2014 to 8.80 million tonnes in 2020-2021(BAHS, 2021). While the egg production increased from 82.93 billion in 2015-16 to 122.05 billion in 2020-21 (Dept. of DAHD Annual report 2021-22). The total poultry in the country is 851.81 million (including backyard poultry) in 2019, registered an increase of 16.8% in the total poultry.

Poultry development is one of the most flexible sectors in the country, fast adapting itself to the changing bio security, health and food safety needs. The total Commercial Poultry in the country is 534.74 million in 2019, increased by 4.5% over previous census.

Raw material cost is scaling up around 40%. Average rate of interest on capital cost, farming & feed model is above 8%. Feed raw material availability & high-end technology in feed & feed ingredient production need to be focused for feed and production cost reduction.

Capital cost for feed production and farming technology adoption is also an additional burden escalating cost of production, absence of infrastructure for distribution of livestock is probably the most expensive in India in comparison with the world average. Therefore, a joint response along with the government needs specialized attention. Although skilled manpower is a great shortage in the industry but it is still affordable comparatively towards standard, but skill cost is projected to grow average by 15% per year. Regulatory support required to make the product available throughout the year every season despite festivities and religious obstruction.

It is glaring to understand how India is transiting towards non vegetarian food, having more than 70% of population is non vegetarian but states like Haryana, Punjab, Delhi, Rajasthan, & Gujrat needs systemic approach from the industry to build robust favourable transition towards non vegetarian food.



Indications are extremely positive, only persuasive efforts can drive the social structure favourably towards poultry industry. States like J&K, Uttarakhand, Chhattisgarh, Telangana, Orrisa, Andhra Pradesh, Tamil Nadu, Kerala & Karnataka are positively placed with its dominating non vegetarian population, who are looking for regionalized choices to enhance poultry protein consumption provided their choices are met comprehensively. Remarkably non vegetarian consumption is equally distributed between female and male population countrywide.



India's growing appetite for meat clearly indicates the opportunities and challenges towards big draw. As per data poultry meat consumption in 2020 onwards is beyond 4 million tonnes and similarly the domestic consumer wallet share towards food is ever increasing up to 35% of total expenditure outflow in the mass, despite India being a growing economy. In the urban sector expenditure is done up to 43% towards food whereas below poverty line in the rural segment 57% outflow goes to food. We need to respond towards these challenges on behalf of industry ensuring adoption of poultry meat in regular food basket. Inclusion of rural mass which is the largest population in the country based on their affordability have to be catered strategically by the industry. To address the market on priority it is also evident that rural adults across India spent only 10% on the animal protein whereas the urban adults spend only 11% on the animal protein. Thereby demand of rural areas to be stimulated favourably by the poultry industry. Consumption volume of poultry meat in India have ever increasing pattern with the largest consumption data of 4.1 million tonnes but forecasted to the beyond acceleration.

Although the worldwide total consumption of poultry meat by 2021 has reached to 133 million tonnes but Indian social fabric will drive ever increasing pattern up to 41% of all the protein meat by 2030. The increase in poultry meat is projected to account for over half of additional animal protein availability in the coming decade.

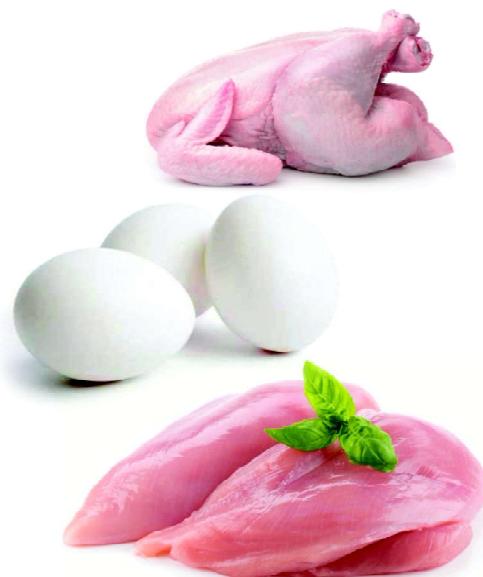
The challenging points are, how do we motivate and educate the transition with much categorized response.

Challenges are well described under my assumption:

- 1 Affordability and Cost Comparison Rural vs Urban.
- 2 Supply Chain & Logistics.
- 3 Product life cycle management - Storage & Warehouse setup – such infrastructures will help to stabilize the market in terms of fluctuations.
- 4 Religion & Vegetarianism.
- 5 Environmental Challenges.
- 6 International Trade compatibility.
- 7 Scale of Production.
- 8 Cost of Capital.
- 9 Regulatory Support.
- 10 Skilled Manpower/Technical expertise.
- 11 Over dominance of middleman – Development of reliable and stable market chain round the year is must.
- 12 NGO's Intervention motivated by other countries.

Overview of Opportunities for the sustainable growth:

- 1 Growth of Consumption.
- 2 International trade.
- 3 Protein sufficiency to the nation.
- 4 Rural market development and rural employment generation
 - About 30% of total population comes from urban pocket and 70% belong to rural area.
 - The availability of poultry meat and eggs, creating a vast marketing opportunity in the rural sector.
 - Fulfill demand of healthy, convenient foods at economical prices is the key.
- 5 Logistics & distribution network & independent venture for food.
- 6 Product versatility can help to grow the industry - Adding Value to poultry products.
- 7 Meritorious product & qualitative education to mass.
- 8 Institutionalization of industry.



It is also important to reframe our situation in order to capture consumer attention & adopt a sustainable agenda for improvement:

- 1 Transparency should take the lead in sustainability.
- 2 Capture consumption patterns and trends in food purchasing behaviour.
- 3 Accelerating digital connection with consumers can be more effective.
- 4 Drive-through access, delivery & digital ordering are a must –(Post Covid scenario).
- 5 Keep chicken as a protein on the centre of the plate for the modern consumer who is surrounded by choices.
- 6 Food safety and nutritive value supporting health.

It is urgent to map the ongoing customer journey's which are driving the chicken protein consumption & will continue to drive the changing habits overall.

The global fast food market size is valued about 600 billion dollars and is expected to grow at CAGR 4.6 % till 2030. The rise in customers spending & the growing influence of convenience food, food delivery & other influencing applications will be the major factors to enhance market growth in India.

Factors such as affordability, availability & vast consumer choices & everlasting food education will enhance and enrich the consumer fabric for protein. The demand for the

fast-food industry in the region "India" will be approximately 250 billion dollars by 2030. Interestingly QSR share seem to be growing with the help of drivers like Dominos, KFC, Pizza Hut & McDonald's with their large number of outlets and customized responses and recipes in Indian mass.

India's eating out market valuing approximately 45 thousand crores have a growth plan of 20-25%, ensuring value proposition, designer recipes as well as vibrant young generation.

Institutions like Railway, Army, Corporate dining, Food sector, branded fine dining restaurants, Quick Service Restaurant & Mobile carts with continually driving the poultry protein consumption which puts Indian poultry industry at restructuring model to meet the challenges. Value addition, variable customer choices, Chicken meat regional versatility and western motivated trends are pointers to examine in order to best archetype of poultry industry.

Although we have mastered poultry protein production greatly but value proposition, cost of production remains the success denominators in the future. We must ensure relevant CAPEX deployment in desirable areas and building a very transparent model of food production & food delivery by building enough capability of processing setup which can suite not only the most dynamic food perspective in India but also can evolve sustainability.



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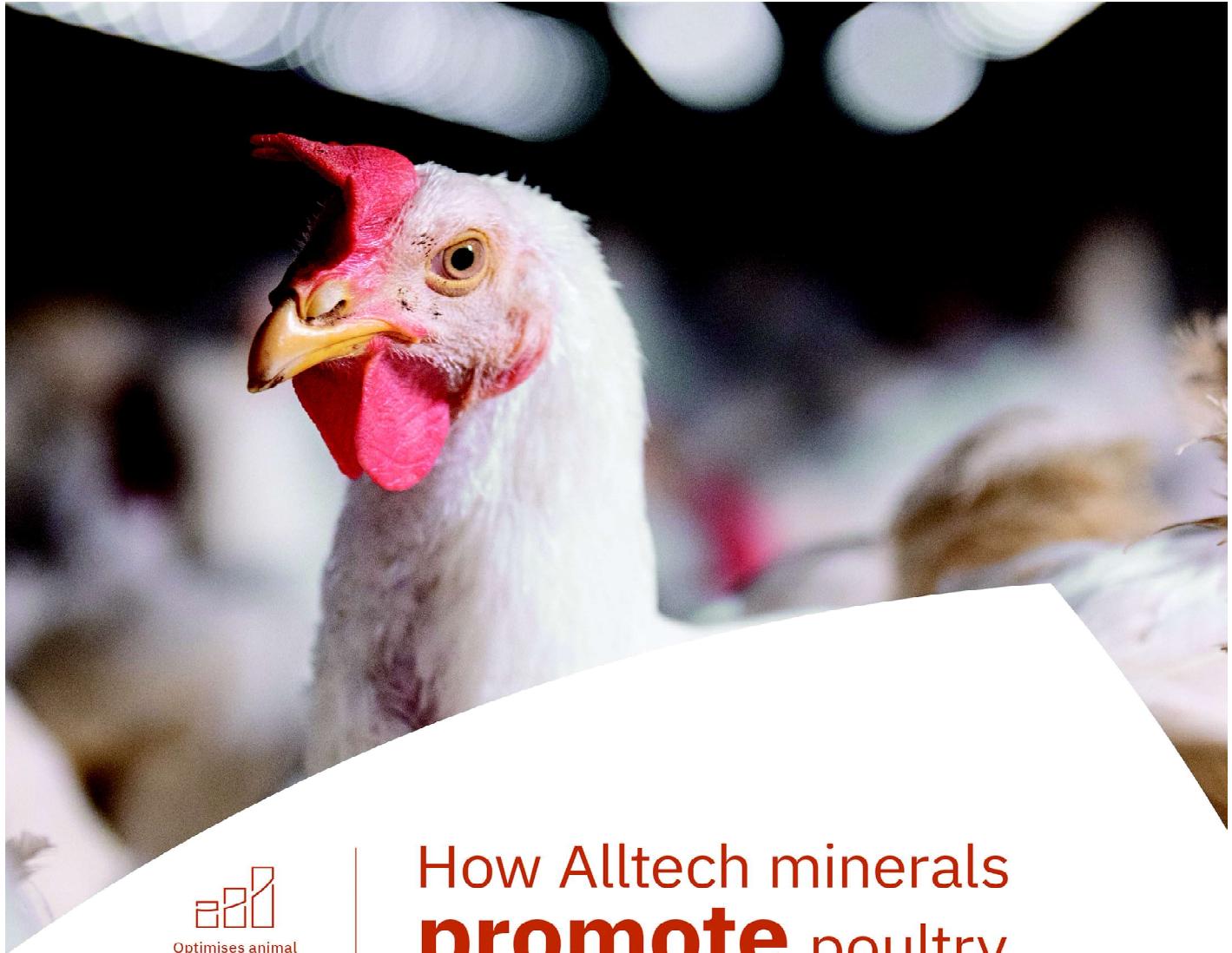
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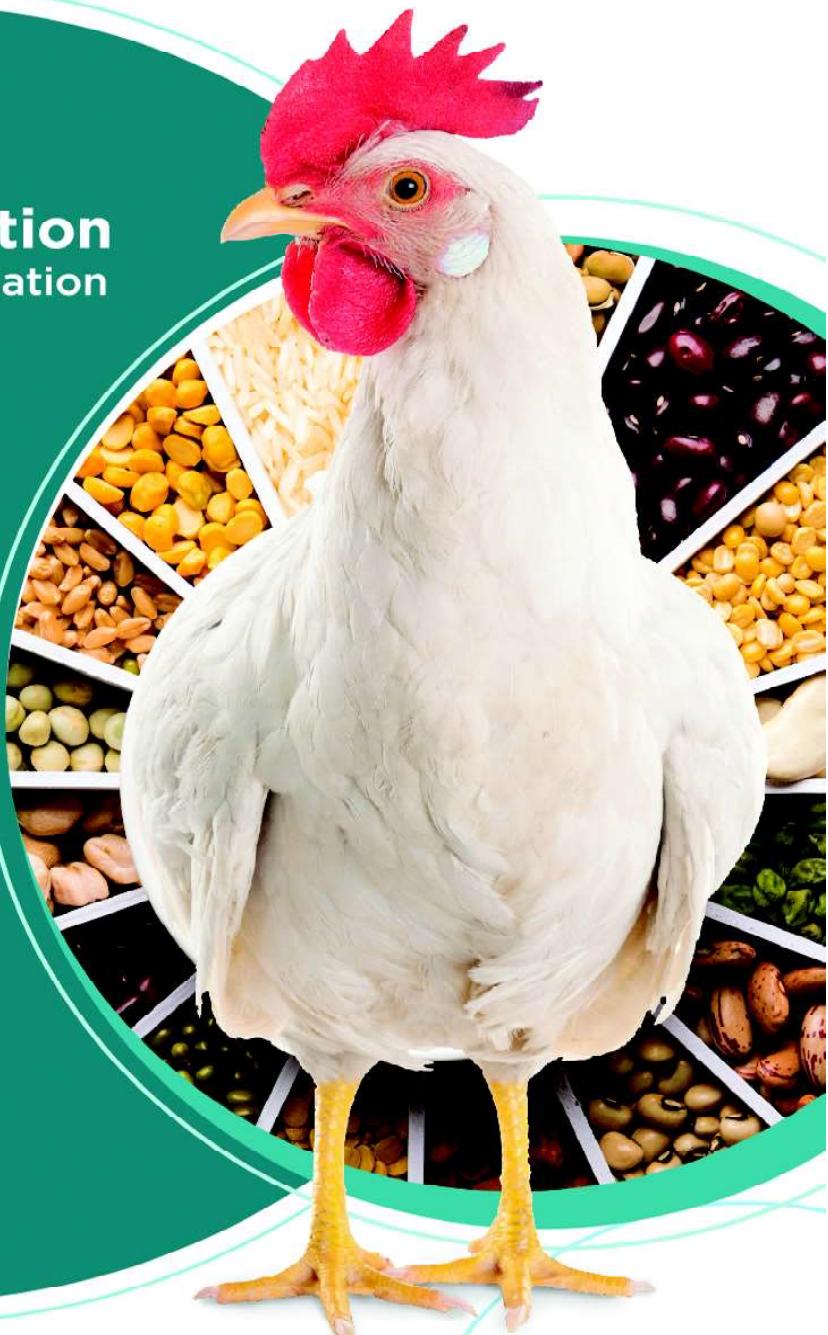
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Rossari Biotech Limited successfully participated in the 9th KIPF - 2023 at Kolkata

Rossari Biotech Limited actively took part in the 9th Kolkata International Poultry Fair -2023 from February 9 - 11 at Science City Kolkata.

The company displayed its cutting-edge innovative nutritional solutions & poultry health products, including Feed Enzymes, Probiotic Series, Micronutrient Formulations, etc. The company feels grateful for the overwhelming response from the visitors and delegates who visited us and appreciate our constant efforts in shaping Indian poultry future through our products. We are thankful to the organizers for recognizing Rossari with the 2nd position in the Diamond category space at the expo.

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Regards,

Dr. Shambhavi

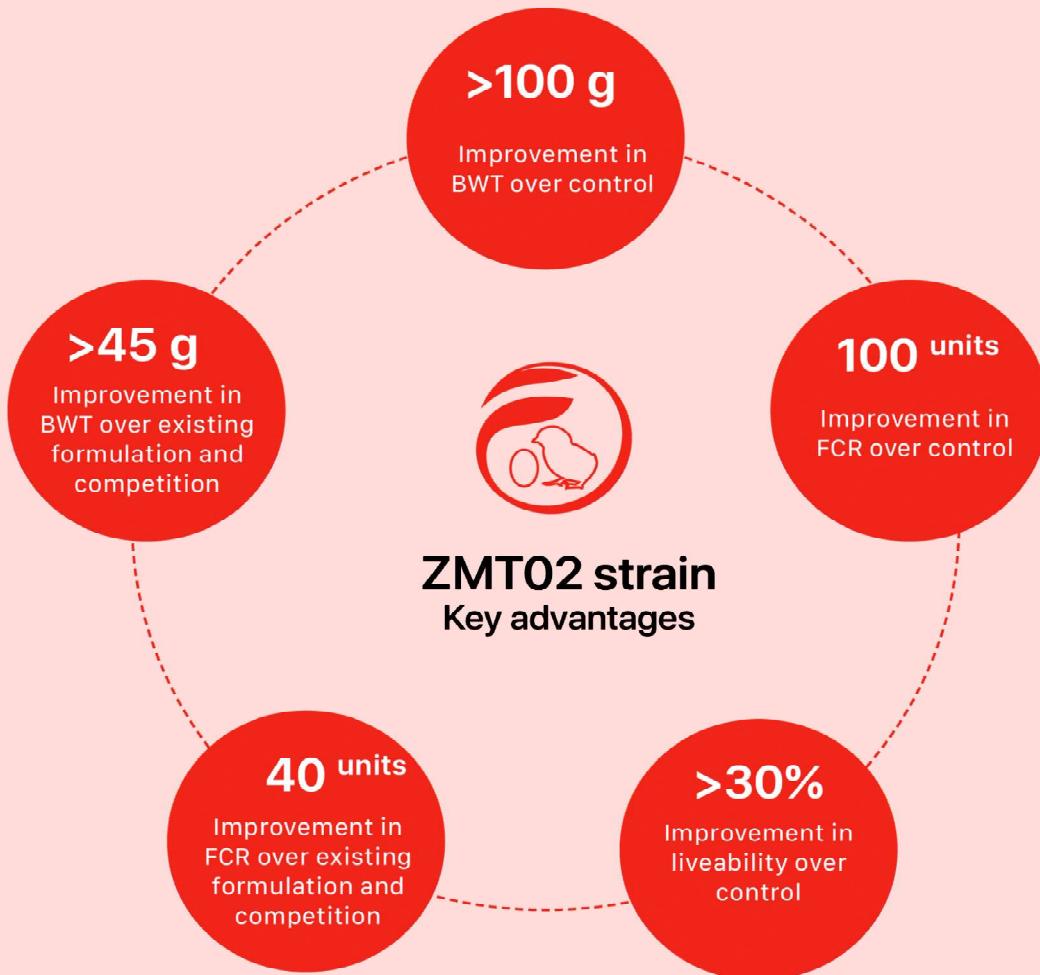
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- Must be organized, analytical and detail-oriented.
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Chelomix is perfectly blended organic trace mineral with glycinated copper, cobalt, iron, iodine, manganese, selenium, zinc, chromium & curcumin extract.

Chelomix is complete glycinated chelated organic mineral premix for broilers, layers & breeders fortified with buzz of the market 'Curcumin extract' helps to overcome mineral deficiencies that leads to stress; nonspecific egg production; poor feed intake; less body weight; poor productivity etc.

GLOCREST Pharmaceuticals Pvt Ltd has wide range of anti-coccidials named as Coccicare range also containing Curcumin extract & Vit K3 along with Ionophores & Chemicals combination.



Dr Kiran Balikai

Technical Manager
Krishna Farm

Control of Early Chick Mortality & Stress Management during summer with **GROX**



Dr. Ramdas Kambale
CEO & Board Member
GLOCREST
Pharmaceutical Pvt. Ltd.

WHAT IS STRESS???

In simple terms, any deviation from normal routine is called the stress. There are several reasons for stress and poultry always exposed to stress conditions which are due to various causes listed below.

- 1) Seasonal impact
- 2) Management causes.
- 3) Nutritional causes.
- 4) Disease causes.

Seasonal impact: The summer is the worst season which causes heat stress and early chick mortality. Stress management during summer is always challenging. Global warming impact is clearly seen and every year farmers suffers heavy losses especially during summer.

Management Causes: High brooding temperature, low brooding temperature, starvation, inadequate feeders and drinkers, high relative humidity; **poor brooding conditions:** All those listed reasons cause severe stress and cause heavy mortality in chicks and even in adult birds

Nutritional Causes: **Water:** Water is one of the essential elements for maintaining the health and performance of the birds. It not only acts as a transport medium for nutrients and metabolic end products but also it helps in maintaining body temperature during hot weather. Besides, water balances the minor deficiency of minerals like Na, Cl, K, etc. Unhygienic water causes high mortality.

Vitamins

deficiencies:

Vitamins are very essential parts of poultry diets. They take part in vital body processes like metabolism, growth and development, reproduction, repair of worn-out tissues; they serve as antioxidants, take part in enzymatic actions, etc.



Dr Kiran Balikai
Technical Manager
Krishna Farm

Diseases: As the immune system is not fully developed at hatch, chicks are particularly susceptible to several viral, bacterial, and parasitic infections. High mortality rates during the first week tend to be very common in poultry productions because of omphalitis, respiratory tract infections, airsacculitis, and septicemia etc.

Probiotics, prebiotics, symbiotic, and postbiotics

Currently, different microorganisms are being used to reduce mortality during first week and protect the gastrointestinal tract. Positive effects of these products have been described in the performance and gut health of chickens. Beta Glucan is known to enhance immunity and bioactivity by promoting secretion of cytokines, activating macrophages, natural killer cells and neutrophils, and have antitumor, antibacterial and antiviral effects ([Brown and Gordon, 2005](#)).

Role of MSM (Methyl Sulphonyl Methane): MSM is the buzz word in stress management in not only poultry but in human beings too. It's one of the super foods as antioxidant and typical stress controlling

factor especially in young chicks and even in adult birds.

CONTROL OF EARLY CHICK MORTALITY & STRESS with **GROX**

COMPOSITION :

Each Kg contains

Vitamin A	30,00,000 IU
Vitamin D ₃	6,00,000 IU
Vitamin E	1,200 IU
Vitamin C	5,00,000 IU
Vitamin K ₃	1.2 g
Vitamin B ₂	1 g
Vitamin B ₃	14 g
Vitamin B ₅	4 g
Vitamin B ₆	600 mg
Vitamin B ₁₂	2.5 mg
Methyl Sulphonyl Methane (MSM)	10 g
Mannan Oligo Saccharide (MOS)	5 g
Protein Hydrolysate	30 g
Beta glucan	5 g
Lactobacillus acidophilus	50 x 10 ⁶ CFU
Saccharomyces boulardii	10 x 10 ³ CFU
Bacillus subtilis	10 x 10 ³ CFU
Sodium sulphate	100 g
Potassium sulphate	100 g

Birds have limited body resources for growth, reproduction, response to environmental changes

& defense mechanism. Birds are subjected to frequent stress factors listed above. Therefore, stress management plays a crucial role to get optimum performance. To address these critical issues, GLOCREST introduced its flagship product to control EARLY CHICK MORTALITY & STRESS named **GROX** with above composition

GROX is complete product to address all the stress factors and help to control early chick mortality. During summer it could be a 'Ramban' solution. Please use it to know it. Basically, it is considered as ORS – Oral Rehydration Solution.

In some of the trial reports (can be provided on demand), it has been observed that there was 0.25-0.5% saving in mortality & there was 15-20g extra body weight in first 10 days against their normal routine products which could result approximate 100g extra body weight at the time of culling. In nutshell, **GROX** is complete package to manage summer stress and controlling early chick mortality and stress conditions in chicks and adult birds too. It can be given 1g/lit water or can be also added in 1kg/ton of feed. However, drinking water application can give instant results.

M.A. Waheed



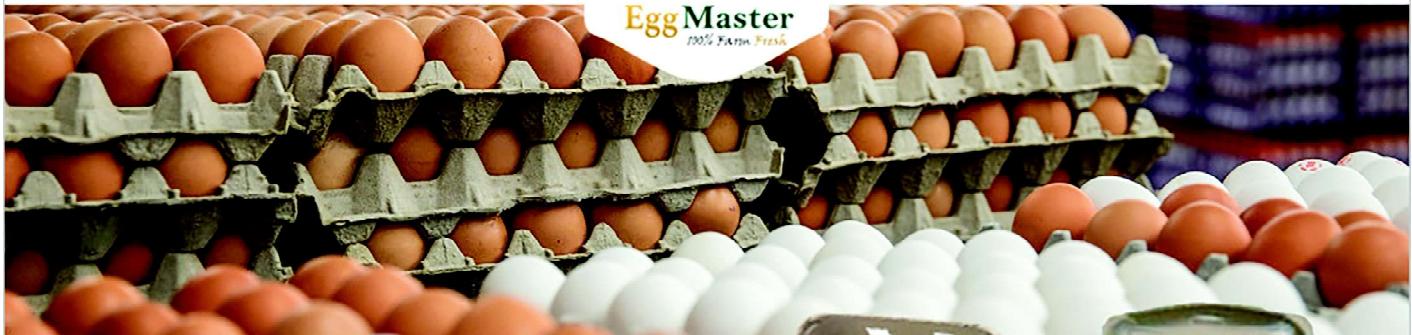
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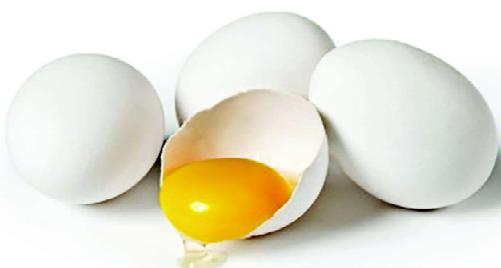
It is easily available in the market. You can buy it from your nearby grocery and super market

○ **WITH THE BEST QUALITY**

We take minimum time to distribute the eggs to reach it to the customers at its freshest.

OUR PRODUCTS

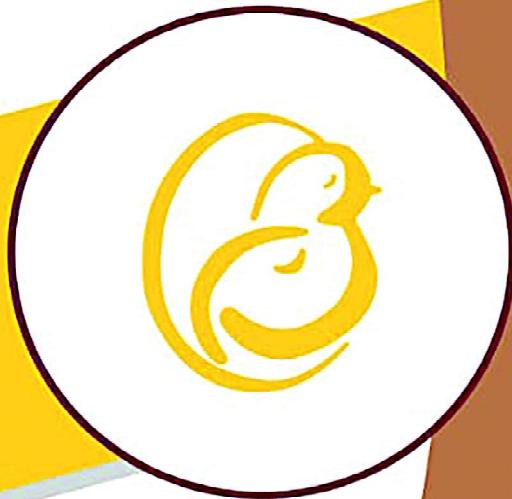
- White Egg
- Brown Egg
- Country Egg
- Duck Egg
- Quail eggs



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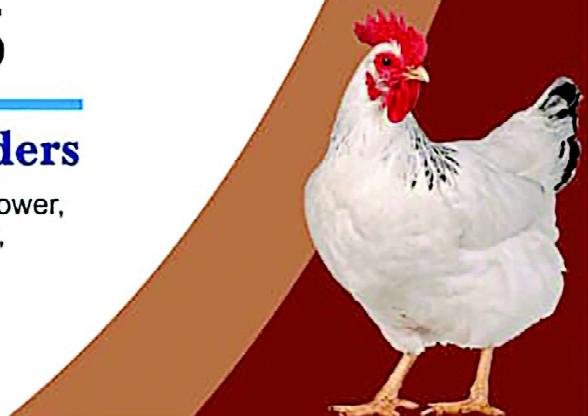
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ড° মুদুল কুমাৰ বৰা

পৰামৰ্শদাতা

সাই বিজয়লক্ষ্মী এন্টাৰপ্রাইজ

গুৱাহাটী

৯৮৬৪৮২৪৭০০

হাঁহ-কুকুৰা পালন অসমীয়া চহা জীৱনৰ এক অবিছেদ্য অংগ। পৰম্পৰাগতভাৱেই অসমৰ সকলো শ্ৰেণীৰ লোকেই হাঁহ বা কুকুৰা পুহি আহিছে। অতীজতে ই এক পৰম্পৰা আছিল যদিও পেছা নাছিল। প্ৰায় সকলো মানুহেই নিজৰ ঘৰতে এইবোৰ পালন কৰিছিল বাবে ব্যৱসায় হিচাপে কোনেও লোৱা নাছিল। কিন্তু সময় বাগৰাৰ লগে লগেই মানুহৰ চলা-ফিৰা বা ত্ৰমণ বিলাস বাঢ়ি আহিল আৰু সমান্বালকৈ মাছ-মাংসৰ চাহিদাও বাঢ়িৰ ধৰিলো। এটা সময়ত ইয়াৰ সম্পূৰ্ণ বাণিজ্যকৰণ হ'ল। আজি অসমৰ চুকে কোণে ব্ৰহ্মলাৰ কুকুৰাৰ পাম এক সুলভ আৰু পৰিচিত দৃশ্য। প্ৰায় আশীৰ দশকৰপৰাই অসমত ব্যৱসায়িকভাৱে ব্ৰহ্মলাৰ কুকুৰা পালন আৰম্ভ হৈছিল যদিও ই প্ৰসাৰ লাভ কৰে প্ৰায় ১৯৯৫-৯৬চন মানৰপৰাহে। তাৰ পিছৰ এটা দশক অসমত ব্যক্তিগত উদ্যোগত অসংগঠিত বৃপ্ততেই এই ব্যৱসায়ৰ অভাৱনীয় উত্তৰণ ঘটে। ২০০৬ চনত ব্ৰহ্মলাৰ পালনৰ বাবে কোম্পানী অহাৰ আগলৈকে অসমত সৰু বৰ প্ৰায় ২৬ হাজাৰ পাম গঢ় লৈ উঠে। এই ব্যৱসায়ৰ সৈতে জড়িত লোকৰ সংখ্যা প্ৰত্যক্ষ আৰু পৰোক্ষভাৱে প্ৰায় লাখৰ ওচৰ চাপিছিল। এতিয়া ব্ৰহ্মলাৰ পালন ব্যৱসায় কোম্পানীৰ হাতত। আজিও ইয়াৰ জৰিয়তে অসমৰ প্ৰায় একলাখ শিক্ষিত নিবনূৱাই সংস্থাপন পাইছে। দেশৰ অৰ্থনীতিত আৰু কৰ্মসংস্থাপনৰ দিশত খেতিৰ পিছতে কুকুৰা পালনেই সৰ্বাধিক অৰিহণা যোগায়। কিন্তু বিভিন্ন সময়ত বিভিন্ন কাৰণত ইয়াত বাধা আহি পৰে, কেতিয়াৰা সমাজৰ ফালৰপৰা যদি কেতিয়াৰা আকৌ কিছুমান অপপ্ৰচাৰৰ বাবে।

কুকুৰা পালন আৰু অসম

অসমৰ বাবে ব্ৰহ্মলাৰ পালনৰ বুৰঞ্জী বহুত পুৰণি নহয়। প্ৰায় ১৯৯০-৯১ চনলৈকে অসমত অতি কম সংখ্যক ব্ৰহ্মলাৰ পালন কৰা হৈছিল যদিও যথেষ্টসংখ্যক সৰু সৰু কণী পৰা কুকুৰা পাম আছিল। যদিও সঠিক তথ্য উপলব্ধ নহয় সেই সময়ৰ যোগানকাৰী প্ৰতিস্থানসমূহে যোগান ধৰা তথ্য অনুসৰি তেতিয়া প্ৰতিসন্ধাত অসমত ২০০০০ মান পোৱালী বিক্ৰী হৈছিল। গুৱাহাটীৰপৰাই সমগ্ৰ অসমলৈ কুকুৰা পোৱালী যোগান ধৰা হৈছিল। ‘আৰামবাগ হেছাৰী প্ৰাঃ লিঃ’ নামৰ কোম্পানীটো এইক্ষেত্ৰত অগ্ৰণী আছিল। অসমৰ প্ৰথমখন থলুৱা ব্ৰহ্মলাৰ প্ৰজনন পাম গঢ়ি তুলিছিল ‘মানস হেছাৰী’ নামৰ প্ৰতিস্থানটোৱে। কিছুসংখ্যক কুকুৰা পোৱালী অসমৰ বাহিৰৰপৰাও আমদানি কৰা হৈছিল। অৱশ্যে তেতিয়া সৰু সৰু বহুতো কণী পৰা কুকুৰাৰ পাম অসমৰ চুকে কোণে গঢ় লৈ উঠিছিল। চৰকাৰীভাৱেও উদ্যোগটোৰ প্ৰসাৰৰ বাবে চেষ্টা চলোৱা হৈছিল। খালাপাৰাত গঢ়ি তোলা হৈছিল কেন্দ্ৰীয় কুকুৰা পোৱালী পালন পাম (CCR Farm)। কিন্তু ব্ৰহ্মলাৰ পালনৰ বাবে তেলে কোনো

চৰকাৰী উদ্যোগ নাছিল। ১৯৯৬ চনত দিল্লীত অনুষ্ঠিত World Poultry Congressৰ প্ৰভাৱ কিছু পৰিমাণে অসমতো পৰিল। সেই অনুষ্ঠানলৈ পোল্ট্ৰী ব্যৱসায়ৰ সৈতে জড়িত বহুকেইজন ব্যৱসায়ীৰ লগতে বহুকেইজন পশুচিকিৎসাবিজ্ঞানৰ ছাত্ৰ অসমৰপণাও গৈছিল। সেই অনুষ্ঠানে অসমৰ অংশগ্ৰহণকাৰীসকলৰ মনত উৎসাহ বৃঢ়াই তোলে। ব্যৱসায়ীসকলে অসমলৈ আহি ন-উদ্যমেৰে লাগি পৰে। বহুকেইজন অসমীয়া পশুচিকিৎসা ম্লাতকে বিভিন্ন কোম্পানীত নিয়োগৰ সুবিধাও লাভ কৰে। পৰবৰ্তী পৰ্যায়ত তেওঁলোকৰ বহুকেইজনে চাকৰি ত্যাগ কৰি আহি নিজৰ অভিজ্ঞতাখণি বাস্তৱ ব্যৱসায়ত লগাবলৈ তৎপৰ হয়। তাৰ ফলশ্ৰুতিতেই প্ৰায় ২০০০ চনলৈ কৰ্ণি উৎপাদনৰ লগতে ব্ৰহ্মপুত্ৰৰ পালনো অসমৰ বহুলোকৰ বাবে স্বনিয়োজনৰ ক্ষেত্ৰ হৈ পৰে। সেই সময়ত ৬৭ %ৰাজসাহাৰ্য্যমুক্ত প্ৰধানমন্ত্ৰী ৰোজগাৰ যোজনাৰ সহজলভ্য ধৰণৰ ব্যৱস্থাইও সৰু সৰু পামবোৰ গঢ়ি উঠাত ঘৰেষ্ট সহায় কৰিছিল।

অসমত ব্রহ্মলাৰ পালন

অসমত ৱয়লাৰ পালন আজিৰদৰে ইমান সহজ নাছিল। ৱয়লাৰ পালন উদ্যোগটোৱ আজিৰ অৱস্থা পাৰলৈ বছতো সৰু সৰু পালকৰ ঘাম বাহিৰ হৈছিল। সেইসময়ত মানুহে কুকুৰাৰ ইমান বড়ি ৯ ওজন প্ৰাপ্তিক সল্দেহৰ চকুৰে চাহিছিল। বছতো ৱয়লাৰ মাংস থাবলৈ ঘিন কৰিছিল। কিছুমানে ৱয়লাৰ মানেই শগুণ আৰু কুকুৰাৰ সংকৰ বুলি ভাবিছিল। আনহে নালাগে আজিৰ তাৰিখতো বছ লোকে ৱয়লাৰ কুকুৰা শগুণ আৰু কুকুৰাৰ সংকৰণৰ ফল বুলিয়েই ভাৰে। মানুহে ৫০টা ৱয়লাৰ কুকুৰা পুহিলেও ডাঙৰ পাম থকা বুলি জাহিৰ কৰিছিল। আনহাতে সেই কুকুৰাবোৰ দুমাহ বয়সত বিক্ৰীযোগ্য হোৱাৰ পিছৰপৰা বিক্ৰী কৰি শেষ কৰালৈকে প্ৰায় এমাহ পৰ্যন্ত লাগিছিল। কেতিয়াৰা শেষৰ কুকুৰাবোৰ ওজন ৫-৬ কিলোগ্ৰাম হৈছিলগৈ। চলিত শতিকাৰ প্ৰথম দশকৰ প্ৰথমভাগৰপৰা অৱশ্যে ৱয়লাৰ পালনে এক সুকীয়া গতি লাভ কৰে। তেতিয়ালৈ অসমত প্ৰতিমাহে প্ৰায় ৪লাখ ৱয়লাৰ কুকুৰাৰ পালন হ 'বলৈ ধৰে। ২০০৬ চনত প্ৰথমবাৰৰ বাবে Venky's India Limited নামৰ কোম্পানীয়ে অসমত চুক্তিভিত্তিক (Contract Broiler Farming) পামৰ পাতনি মেলে। যদিও কোম্পানীটোৱে পৰৱৰ্তী সময়ত চুক্তিভিত্তিক (Contract Broiler Farming) পাম বন্ধ কৰি দিয়ে তথাপি ব্যৱসায়টোক এক নতুন মাত্ৰা দিবলৈ সঞ্চয় হয়। পিছলৈ অমৃত বীদাৰ্চ আৰু সুগুণা ফুদচ নামৰ কোম্পানী দুটাই চুক্তিভিত্তিক (Contract Broiler Farming) পাম ব্যৱস্থাটো অধিক স্বৰান্বিত কৰি তোলে। ২০০৬চনৰ আশে পাশে অসমত প্ৰায় ১২-১৬লাখ ৱয়লাৰ কুকুৰা প্ৰতিমাহে পালন কৰা হৈছিল। ২০১৬ চনলৈ এই সংখ্যা প্ৰায় ১৬লাখ প্ৰতি সপ্তাহলৈ বৃদ্ধি পায় অৰ্থাৎ ৯ ৱয়লাৰ উৎপাদন তেতিয়ালৈ প্ৰায় ২০০৬চনৰ তুলনাত ৪গুণ হয়। এইখনি সময়ত নামনি অসমৰ ৱয়লাৰ উৎপাদনৰ ৮০% ই আহিবলৈ ধৰে চুক্তিভিত্তিক পামৰপৰা। ২০১৭চনত অমৃত বীদাৰ্চ নামৰ কোম্পানীটো দেউলীয়া হোৱা বাবে বন্ধ হৈ যায়। তাৰ পিছতেই আন বছকেইটা কোম্পানী অসমত পাম কৰিবলৈ আহে। ফলশ্ৰুতিত অসমত ৱয়লাৰ উৎপাদনে এক অন্যন্য মাত্ৰা লাভ কৰে। ২০১৮ পশ্চিমফৰ্শীগণণা অনুসৰি অসমত প্ৰায় ৪৬৭লাখ হাঁহ, কুকুৰা বা অন্যান্য পোহনীয়া চৰাই আছে যাৰ সিংহভাগেই নিশ্চয় ৱয়লাৰ কুকুৰা। ২০২০ চনলৈ অসমত অভিলেখ সংখ্যক ৱয়লাৰ পালন হ 'বলৈ ধৰে। বজাৰৰ তথ্য অনুলৰ্বি (আমদানিৰূপ পোৱালী ফুটোৱা কণীৰ হিচাপ অনুসৰি) ২০২০চনত প্ৰতি সপ্তাহত প্ৰায় ২৫-২৭লাখ ৱয়লাৰ পালন কৰা হৈছিল। যদি পালিবলৈ লোৱা পোৱালীবোৰৰ ১০ % মৰে আৰু জীৱিত কুকুৰাৰ ওজনৰ বিপৰীতে ৬৭% মাংস উৎপাদন হয় তেন্তে অসমত বছৰি ১৫০ হজাৰ টন চাল নথকা বিশুদ্ধ মাংস উৎপাদন কৰে অৰ্থাৎ দৈনিক ৪০০টন পৰ্যন্ত ৱয়লাৰ মাংস অসমে উৎপাদন কৰে।

অসমত ব্রহ্মলাৰ ব্যৱসায়ৰ উত্তৰণ

অসমৰ বাবে ব্রয়লাৰ পালনৰ ধাৰণাটো যে তুলনামূলকভাৱে নতুন তাক আগতেই উল্লেখ কৰা হৈছে। সাভাৱিকতেই সাধাৰণ মানুহৰ মনত স্থায়ীভাৱে থিতাপি লওঁতে ই সময় ল 'ব। আজিও বহুতে বিভিন্ন কাৰণত ব্রয়লাৰ কুকুৰাতকৈ থলুৱা কুকুৰাৰ মাংস খোৱা স্বাস্থ্যৰ পক্ষে উপকাৰী বুলি এক ধাৰণা বাঞ্ছি লৈ ফুৰিছে। যিয়েই কি নহওক থলুৱা কুকুৰা বা ব্রয়লাৰ দুয়োবিধি মাংসই শৰীৰৰ বাবে প্ৰয়োজনীয় প্ৰোটিনকণ যোগান ধৰিব পাৰে। চুক্তিভিত্তিক পামৰ জৰিয়তে কুকুৰা উ ৯পাদন আৰম্ভ হোৱাৰ লগে লগে উৎপাদিত কুকুৰা বিক্ৰী কৰিবৰ বাবে কোম্পানীসমূহৰ মাজত এক প্ৰতিযোগিতা গঢ় লৈ উঠিল। তাৰ ফলশ্ৰুতিত কুকুৰা যোগান ধৰা কেতবোৰ ব্যৱসায়ী অসমৰ চুকে কোণে সংষ্ঠি হ 'ল। তেওঁলোকে আকৌ ব্রয়লাৰ বিক্ৰীৰ বাবে গাঁৱে-ভুঁফে সৰু সৰু কিছু খুচুৰা বিক্ৰেতাক ব্রয়লাৰ বিক্ৰীৰ বাবে উৎসাহিত কৰিব আৰম্ভ কৰিলৈ। এইদৰে আজি অসমৰ প্ৰতিখন ঠাইতে ব্রয়লাৰ মাংস বিক্ৰেতা তৈয়াৰ হ 'ল। দুৰ্ভাগ্যজনক কথা যে অসমত এনে পালক তথা ব্যৱসায়ীৰ সঠিক পৰিসংখ্যা এতিয়ালৈকে কাৰো হাতত নাই। যিয়েই কি নহওক এই যোগান শৃংখলটোৱেই অসমৰ মানুহক ব্রয়লাৰ মাংস যোগান ধৰি আহিছে। অসমৰ প্ৰায় ৩কোটি ৫০লাখ মানুহে এই শৃংখলৰ জৰিয়তেই মাংসকণ পাই আহিছে।

অসমৰ মাংসৰ বজাৰখন

ICMR বা ভাৰতীয় চিকিৎসা গৱেষণা পৰিষদৰ মতে একোজন মানুহে বছৰি প্ৰায় ১১ কিলোগ্ৰাম মাংস থাৰ লাগে। সেই হিচাপত অসমত দৈনিক মাংসৰ প্ৰয়োজন হয় প্ৰায় ১০৫৪টন। এই মাংসখনিব সিংহভাগ বৰ্তমান ব্রয়লাৰৰ দ্বাৰাই যোগান ধৰা হয় যদিও এক বৃহ ৯ অংশ আহে গাহৰি, হাঁহ, থলুৱা কুকুৰা, ভেড়া, ছাগলী, গৰু, ম'হ আৰু অতি সামান্য পৰিমাণে আন জন্তু বা চৰাইৰপৰা। অৱশ্যে সকলো মাংস মিলও ভাৰতীয় চিকিৎসা গৱেষণা পৰিষদৰ অনুমোদিত পৰিমাণ স্পৰ্শ কৰিব পৰা নাই। গাহৰি আৰু ব্রয়লাৰ মাংসৰ দাম আন সকলো মাংসতকৈ কম আৰু সহজলভ্য হোৱা বাবে এই দুবিধি মাংসৰেই বজাৰ চাহিদা সৰ্বাধিক। অৱশ্যে ইয়াৰ ভিতৰত বিভিন্ন কাৰণত গাহৰি মাংস বহুতৰ বাবে অস্পৰ্শ্য(?) হোৱা বাবে ব্রয়লাৰ মাংসই এক সুকীয়া স্থান লৈছে। যদি অনুমোদিত পৰিমাণৰ মাংসৰ ৫০ %ও ব্রয়লাৰৰপৰা আহে তেন্তে আমাক দৈনিক প্ৰায় ৫২৭টন ব্রয়লাৰ মাংসৰ প্ৰয়োজন হয়। কিন্তু সীমিত ক্ৰয় ক্ষমতা তথা আনুষংগিক কাৰণৰ বাবে অসমৰ বজাৰত দৈনিক ব্রয়লাৰৰ বিশুদ্ধ মাংস বিক্ৰী হয় মাত্ৰ ২০৬টন মানুহে। অৰ্থাৎ ৯ বজাৰ হিচাপে অসমত মুঠ জীৱন্ত কুকুৰাৰ ওজন হিচাপে দৈনিক চাহিদা আছে প্ৰায় ৩৫০-৪০০টন। বৰ্তমান সময়ত প্ৰয়োজনীয় সেই পৰিমাণৰ ব্রয়লাৰ কুকুৰা উ ৯পাদন হৈ আছে। এক কথাত ক'বলৈ গ'লে অসমত প্ৰয়োজনীয় ব্রয়লাৰ কুকুৰাৰ মাংস অসমতেই উ ৯পাদল হৈ আছে অৰ্থাৎ ব্রয়লাৰ উৎপাদনত অসম এতিয়া স্বারলগ্নী। তথাপি দৈনিক যথেষ্টসংখ্যক ব্রয়লাৰ কুকুৰা অসমলৈ আমদানি হোৱা দেখা যায়। বহু লোকে অভিযোগ কৰে যে বাহিৰৰপৰা হোৱা এই আমদানিৰ বাবেই অসমৰ ব্রয়লাৰ কুকুৰাৰ বজাৰখন অস্থিৰ হয়। আনহাতে প্ৰশাসনৰ দৃষ্টিত অসমত চাহিদা অনুপাতে যোগান কম হোৱা বাবেহে বাহিৰৰপৰা এই ব্রয়লাৰ কুকুৰাখনি আনিব লগা হয়। এইখনিতে উল্লেখ কৰিব পাৰি যে অসমে ব্রয়লাৰ কুকুৰা কেৱল অসমৰ বাবেই নহয় আন আন চুবুৰীয়া বাজ্যকেইখনকো যোগান ধৰিব লগা হয়। যি পৰিমাণৰ কুকুৰা অসমে চুবুৰীয়া বাজ্যকেইখনলৈ ৰপ্তানি কৰে ঠিক সিমান পৰিমাণৰ বা কিছু বেছি বিক্ষিপ্তভাৱে পশ্চিমবংগৰদৰে বাজ্যৰপৰা আমদানি হয়। কিন্তু সেয়া চাহিদাৰ বাবে নহয়, উ ৯সৰ মূল্যৰ তাৰতম্যৰ বাবেহে।

কণীৰ বজাৰখন

উল্লেখ কৰি অহা হৈছে যে যোৱা শতিকাৰ নকৈৰ দশকটোলৈকে অসমত ব্রয়লাৰ পালন অতি সীমিত আছিল যদিও কণী পৰা কুকুৰা বা লেয়াৰ কুকুৰা বহু পৰিমাণত পালন কৰা হৈছিল। সঙ্গলদৈ,

তিনিচুকীয়া আৰু যোৰহাটত কেইথনমান ব্যৱসায়িক লেয়াৰ পাম আছিল। কিন্তু কিমান উন্নত জাতৰ কুকুৰা তেতিয়া অসমত পোহা হৈছিল তাৰ কোনো সঠিক বজাৰ পৰিসংখ্যা পোৱা নাযায়। অসংগঠিত পশুপালন ব্যৱস্থাৰ হেতুকে সেইসময়ৰ কণীৰ চাহিদা আৰু যোগান সম্পর্কেও পাৰিসাংখ্যিক তথ্য যোগাৰ কৰা দুৰুহ। সেই তথ্যবোৰ আজিৰ পৰিপ্ৰেক্ষিতত বহু পৰিমাণে যুগ্মত কৰা সম্ভৱ হৈ উঠিছে। বজাৰ পৰিসংখ্যা অনুযায়ী অসমলৈ দৈনিক প্ৰায় ৬০লাখৰো অধিক কণী বাহিৰৰপৰা আমদানি হয়। ইয়াৰ বাবে ৰাজ্যখনে প্ৰায় ৭০০কোটি টকা বছৰি বাহিৰলৈ উনিয়াই দিব লগা হয়। সুখৰ কথা যে ইতিমধ্যে কেইবাখনো পাম ৰাজ্যখনত গড় লৈ উঠিছে আৰু বহসংখ্যক লোকে লেয়াৰ পাম কৰাৰ বাবে যো-যা চলাই আছে। অসমৰ্থিত যদিও বজাৰৰ তথ্য অনুসৰি বৰ্তমান অসমত প্ৰায় ১৫০০ লেয়াৰ কুকুৰা পালন কৰিব পৰা ক্ষমতাৰ আধুনিক পাম গড় লৈ উঠিছে। অৱশ্যে সকলোবোৰ পাম সম্পূৰ্ণ উৎপাদনক্ষম হোৱালৈ আৰু কিছুদিন বাট চাব লাগিব। সংগ্ৰহ কৰা তথ্য অনুসৰি এতিয়ালৈকে এই পামসমূহে দৈনিক প্ৰায় ৮লাখ কণী বজাৰত যোগান ধৰিব পাৰিছে। তথাপি কণীৰ ক্ষেত্ৰত স্বারলঞ্চী হ'বলৈ আমাক আৰু সময় লাগিব। সুখৰ কথা যে বৰ্তমানৰ চৰকাৰে কণী উৎপাদনৰ বিষয়টোক অগ্ৰাধিকাৰ দি অহা ৫বেছৰৰ ভিতৰত ৰাজ্যখনক স্বারলঞ্চী কৰি তোলাৰ লক্ষ্য বাঞ্ছি লৈছে।

কুকুৰা পালনৰ জৰিয়তে নিয়োগ সৃষ্টি

কুকুৰা পালন ব্যৱসায়ত বিভিন্ন দিশ জড়িত হৈ আছে। অসমৰ কুকুৰা পালনেৰে সমৃদ্ধ জিলাকেইথনত সাধাৰণভাৱে চলোৱা এক সমীক্ষা অনুসৰি ২০০৬চনমানত অসমত প্ৰায় ১৯০০০ সৰু সৰু কুকুৰা পালক আছিল। তেওঁলোকে নিজৰ নিকটবৰ্তী দানা আৰু পোৱালী যোগান ধৰোঁতা ব্যৱসায়ীসকলৰপৰা দানা আৰু পোৱালী ক্ৰয় কৰি পাম কৰিছিল। বিক্ৰীৰ বাবে প্ৰায় নিজা ব্যৱস্থা কৰিছিল। ব্যৱসায়ীসকলৰ বেছিভাগৰেই গুৱাহাটীস্থিত কোনো পোৱালী উৎপাদনকাৰী প্ৰতিষ্ঠান বা হেছাৰী আৰু দানাৰ পাইকাৰী ব্যৱসায়ীৰ সৈতে যোগাযোগ আছিল। এইদৰে সম্পূৰ্ণ শৃংখলটোত প্ৰায় ২০-২২হাজাৰ পৰিয়াল প্ৰত্যক্ষ্যভাৱে জড়িত হৈ থকাৰ বিপৰীতে আন বহসংখ্যক পৰোক্ষভাৱে জড়িত হৈ নিযুক্ত হৈছিল। ২০০৬চনত বিভিন্ন কোম্পানীসমূহে চুক্তিভিত্তিক পাম কৰিবলৈ আৰম্ভ কৰাৰ লগে লগে ছবিখন সলনি হয়। লাহে লাহে ডাঙৰ পামঘৰ তৈয়াৰ কৰি একেখন পামতে বেছি কুকুৰা উৎপাদনৰ ব্যৱস্থা হয়। চুক্তিভিত্তিক পাম ব্যৱস্থাত পালকজনে যিহেতু দানা আৰু পোৱালীৰ বাবে ধন বিনিয়োগ কৰিব লগা নহয় গতিকে সক্ষমসকলে কোম্পানীৰ সৈতে চুক্তি কৰি ডাঙৰ পামৰ মাধ্যমেৰে উৎপাদন আৰম্ভ কৰিলৈ। কালক্রমত সৰু লৰু পামবোৰ নোহোৱা হৈ পৰিল। ২০০৬চনৰ তুলনাত ২০২২চনত ৱয়লাৰ কুকুৰাৰ উৎপাদন প্ৰায় ৮গুণলৈ বৃদ্ধি পালে যদিও অৱশ্যে নিয়োগৰ সুবিধা প্ৰায় একেই থাকিল। অৱশ্যে এই ব্যৱসায়ত তেতিয়াৰপৰা শিক্ষিত লোকৰ প্ৰৱেশ বাঢ়িল। এক আনুমানিক হিচাপমতে বৰ্তমান অসমত প্ৰায় ১১০০০ ৱয়লাৰ পালকে কোম্পানীসমূহৰ সৈতে চুক্তিবদ্ধ হৈ ৱয়লাৰ পাম কৰি থকাৰ বিপৰীতে আন প্ৰায় ১৫০০ শুল্ক পালকে লেয়াৰকে আদি কৰি আন আন পক্ষী পালনৰ সৈতে জড়িত হৈছে। হেছাৰীৰপৰা আৰম্ভ কৰি কুকুৰা কাটি বিক্ৰী কৰালৈকে প্ৰত্যক্ষ্যভাৱে এই ব্যৱসায়ৰ সৈতে আন প্ৰায় ১০০০০ লোক জড়িত। অৱশ্যে পৰোক্ষভাৱে আন কেইবাহজাৰ লোক এই ব্যৱসায়ৰ সৈতে সাঙ্গোৰ খাই আছে। অতি সুখৰ কথাটো হৈছে কুকুৰা পালনৰ ক্ষেত্ৰখনে বিশুদ্ধ কৃষিকাৰ্য্যকো সহায় কৰিছে। থাদ্যৰ বাবে প্ৰয়োজন হোৱা প্ৰায় ৮০% মাকে ৰাজ্যখনতেই উৎপাদন হোৱাটো শুভ লক্ষণ। প্ৰত্যক্ষ আৰু পৰোক্ষভাৱে কুকুৰা পালনে অসমৰ একলাখৰো অধিক লোকক নিয়োগৰ সুবিধা কৰি দিচে।

বিশুদ্ধ কৃষি আৰু কৃষি অৰ্থনীতিৰ ওপৰত কুকুৰা পালনৰ প্ৰভাৱ

পশ্চালন আৰু কৃষি এটা আনটোৰ সৈতে পোলপটীয়াকৈ শুক্ত। বাণিজ্যিকৰণৰ জৰিয়তে বিজ্ঞানসম্ভাবনাত পশ্চালনৰ গুৰুত্ব বাঢ়িল, লগে লগে পালকসকলো পশ্চ পৰিপুষ্টিৰ প্রতি অধিক সচেতন হৈছে। সুষম আহাৰৰ প্রতি সচেতনতাই বিশেষ কৃষি প্ৰক্ৰিয়াকো এখোপ আগৱাই লৈ যোৱাত সহায়ক হৈছে। অসমৰ ৪৬৭কোটি কুকুৰাক সুষম আহাৰ দিবৰ বাবে কেইবাশটল উপাদান প্ৰয়োজন। এই উপাদানসমূহৰ সিংহভাগেই গোমধান আৰু চয়াবিনৰ থলিহৈ। সুখৰ বিষয় যে অসমত পশ্চথাদ্য আৰু কুকুৰাৰ দানাৰ বাবে প্ৰয়োজন হোৱা গোমধানৰ অন্ততঃ শতকৰা ৭০ভাগ ৰাজ্যখনতে উ ৯পাদিত। ইয়াৰদ্বাৰা ৰাজ্যখনৰ কৃষি অৰ্থনীতিয়ে এক নতুন মাত্ৰা লাভ কৰিছে। আশা কৰা যায় যে পশ্চালন নিৰ্ভৰ কৃষিখণ্ডও নিবন্ধুৱা সমস্যাৰ সমাধানত এক গুৰুত্বপূৰ্ণ ভূমিকা পালন কৰিব।

অতি সুখৰ কথা যে চৰকাৰে কণী উ ৯পাদনৰ বিষয়টো গুৰুত্বসহকাৰে লৈছে। কণী উ ৯পাদনক উৎসাহিত কৰিবলৈ পুঁজিৰ আৱণ্টন দিয়া বুলি জানিব পৰা হৈছে। ই ৰাজ্যখনলৈ আশাৰ বতৰা কঢ়িয়াই আনিছে। চৰকাৰৰ উদ্দেশ্য সফল কৰিবলৈ পালকসকলে কম থৰছত সুষম থাদ্য পোৱাটো অত্যন্ত জৰুৰী। সেয়ে এই দিশটোৰ প্রতিও চৰকাৰ তথা কৃষি বিভাগ সচেতন হওক।

অৰ্থ যোগানৰ দিশত বেংকসুহৰ কৰণীয় যথেষ্ট আছে। বেংকসুহে ঋণ প্ৰদান প্ৰক্ৰিয়াক স্বচ্ছ আৰু শিখিল কৰা উচিত। বহসময়ত উপযুক্ত প্ৰাৰ্থীয়ে ঋণ পাৰ নোৱাৰা বাবে পামসমূহ গঢ় লৈ উঠিব নোৱাৰে। গতিকে ৰাজ্যখনৰ পৰিস্থিতিৰ লগত থাপ খোৱাকৈ বেংকসমূহে নিয়মসমূহ প্ৰস্তুত কৰা আৱশ্যক।

আমাৰ কৰণীয়

কুকুৰা পালন ব্যৱসায়টো অত্যন্ত সংবেদী। এই ব্যৱসায়ৰ এফালে স্বনিয়োজিত পালকসকল আৰু আনটো ফালে গ্ৰাহক সমাজ। পালকসকলে সৰ্বাধিক মূলাফা আশা কৰাৰ বিপৰীতে গ্ৰাহকে সদায় কম মূল্যত উপলক্ষ হোৱাটো বিচাৰে। আনহাতে বজাৰখন সুচল হোৱাৰ স্বার্থত এচাম মধ্যভোগীও জড়িত হৈ আছে। তেওঁলোকেও মূলাফা লাভৰ আশাতেই ব্যৱসায়ত বিনিয়োগ কৰে। কিন্তু কেতিয়াৰা কোনো এক পক্ষৰ বল বাঢ়ি গ'লেই বজাৰখন অস্থিৰ হৈ পৰে। সেয়া যাতে নহয় তাৰ বাবে সকলো সচেষ্ট হোৱা উচিত।

পালকসকলক উদগণি দি ব্যৱসায়টোৰ জৰিয়তে নিয়োগৰ সুবিধা বঢ়াবৰ বাবে চৰকাৰৰো দায়িত্ব আছে। বিভাগীয়ভাৱে পালকসকলক দিহা পৰামৰ্শ দিয়া, পঞ্জীয়নৰ স্বাস্থ্যসম্পৰ্কীয় দিহা পৰামৰ্শ দিয়া, প্ৰয়োজনীয় থাদ্য উ ৯পাদনৰ সহজ সুবিধা কৰি দিয়া আৰু কৃষি বিভাগৰ জৰিয়তে দানা প্ৰস্তুত কৰাৰ কাৰণে প্ৰয়োজনীয় উপাদানসমূহ উ ৯পাদন কৰি পালকসকলক সুলভ মূল্যত দানা তৈয়াৰ কৰিব পৰা ব্যৱস্থা কৰি দিয়াটো এক কৰ্তব্য হিচাপে লোৱা উচিত।

সামৰণিতঃ

অসম বা আমাৰ চুবুৰীয়া ৰাজ্যকেইখন প্ৰায় সম্পূৰ্ণই আমিশাহাৰী লোকৰ বসতি। তেনেষ্টলত ইয়াত কণী আৰু মাংসৰ চাহিদা সদায়ে আছে। বাকী ৰাজ্যকেইখনৰ মধ্যস্থলত অৱস্থিত হোৱা বাবে অসম কিছু পৰিমাণে আনকেইখন ৰাজ্যতকৈ সুবিধাজনক স্থিতিত আছে। আজিৰ তাৰিখত অসমত বজাৰ চাহিদা অনুসৰি ৱয়লাৰ মাংসৰ উ ৯পাদন পৰ্যাপ্ত যদিও সময়ৰ লগে লগে চাহিদাও বৃদ্ধি পাৰ। বিশেষভাৱে কোভিদৰ পিছৰপৰা পৰ্যটন উদ্যোগটোৱে দ্রুত গতিত বিকাশ লাভ কৰা দেখা গৈছে। পৰ্যটন উদ্যোগৰ বিকাশৰ লগে লগে কণী আকৰু ৱয়লাৰ মাংসৰ চাহিদা সমানুপাতিক হাৰত বৃদ্ধিত সহায় কৰিব। তদুপৰি মানুহৰ স্বাস্থ্য সচেতনতাৰ বাবেও কণী আৰু মাংস দুয়োবিধৰে চাহিদা বৃদ্ধি পাৰ ধৰিছে। তেনে পৰিপ্ৰেক্ষিতত উদ্যোগটোক সবল কৰি তোলাত সকলোৱে দায়িত্বসহকাৰে আগবঢ়া উচিত।

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Avitech Nutrition participates at the 9th Kolkata International Poultry Fair 2023



Avitech Nutrition participated at the 9th KIPF Exhibition held between 9th - 11th February 2023 at the Science City in Kolkata. The exhibition is largest of its kind in the eastern part of India, catering to a sizeable section of the Indian, Bangladeshi, and Nepalese poultry industries.

Avitech showcased the products of its new division - PhyGeno which offers plant-based solutions such as Avitriol (plant based bioactive Vitamin D3), Sapodo (plant-based ammonia binder, PhyCholine (plantbased Choline), GenoLiv (plant based

Hepatostimulant) and Green C (plantbased Vitamin C). The exhibition evoked a strong response in terms of participation and footfall as it was being held after a gap of 3 years duration.

For further technical or trade related enquiries contact

Avitech Nutrition

GP-37, HSIIDC Udyog Vihar, Sector-18,
Gurgaon-122015, Haryana (India)
E-mail: info@avitechnutrition.com
Website: www.avitechnutrition.com



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Avitech Nutrition participates in 16th PDFA International Dairy & Agri Expo 2023



Avitech Nutrition participated at the PDFA Exhibition held from 3rd- 5th February 2023 at the Cattle Fair Grounds in Jagraon in Ludhiana, Punjab. The exhibition enjoys prime position in the country for the dairy industry comprising farmers, milk producers, milk processing units., veterinarians, consultants, dairy feed millers, animal nutritional feed companies etc.

Avitech Nutrition showcased products from its new PhyGeno division such as Avitriol – a plant based bioactive Vitamin D3. The visitors expressed keen interest in other established products on

displays such as Avilyte WS Dairy (electrolyte), Avilact (rumen alkalizer), Avsorb Forte (toxin binder), Nutriox (antioxidant) and Performins Dairy CMZ (organic mineral glycinate).

For further technical or trade related enquiries contact

Avitech Nutrition

GP-37, HSIIDC, Udyog Vihar, Sector-18, Gurgaon-122015, Haryana (India)
E-mail: info@avitechnutrition.com
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PhyGeno at IPPE, Atlanta, USA in January 2023

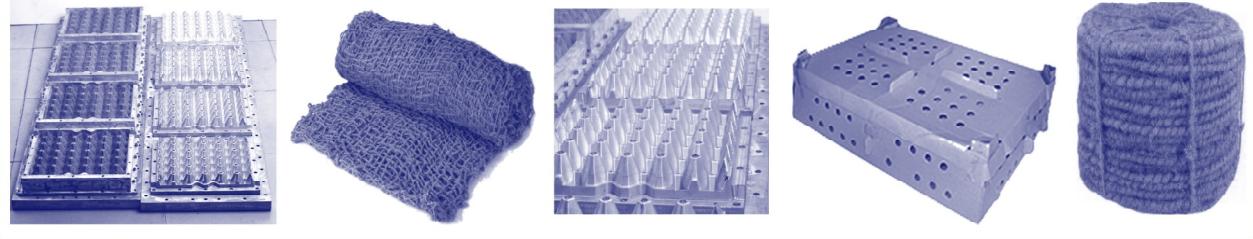
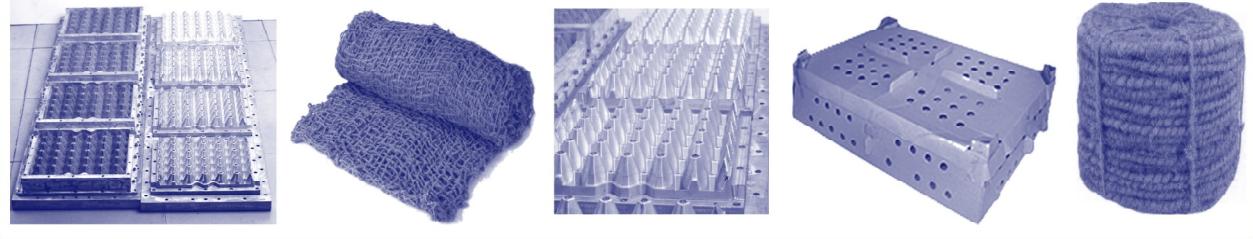


PhyGeno exhibited at the IPPE (International Production and Processing Expo) in Atlanta, Georgia, USA between 24th- 26th January 2023. The IPPE is a collaboration of three shows – International Feed Expo, International Meat Expo and International Poultry Expo which represents the entire chain of protein production and processing. It is the largest trade show for the industry in the Americas. The PhyGeno booth received a lot of interest for its phytoproducts (plant based feed additive) range of products from visitors from North America, South America, Africa and Europe.

For further technical or trade related enquiries contact

Avitech Nutrition

GP-37, HSIIDC, Udyog Vihar, Sector-18, Gurgaon-122015, Haryana (India)
E-mail: info@avitechnutrition.com
Website: www.avitechnutrition.com

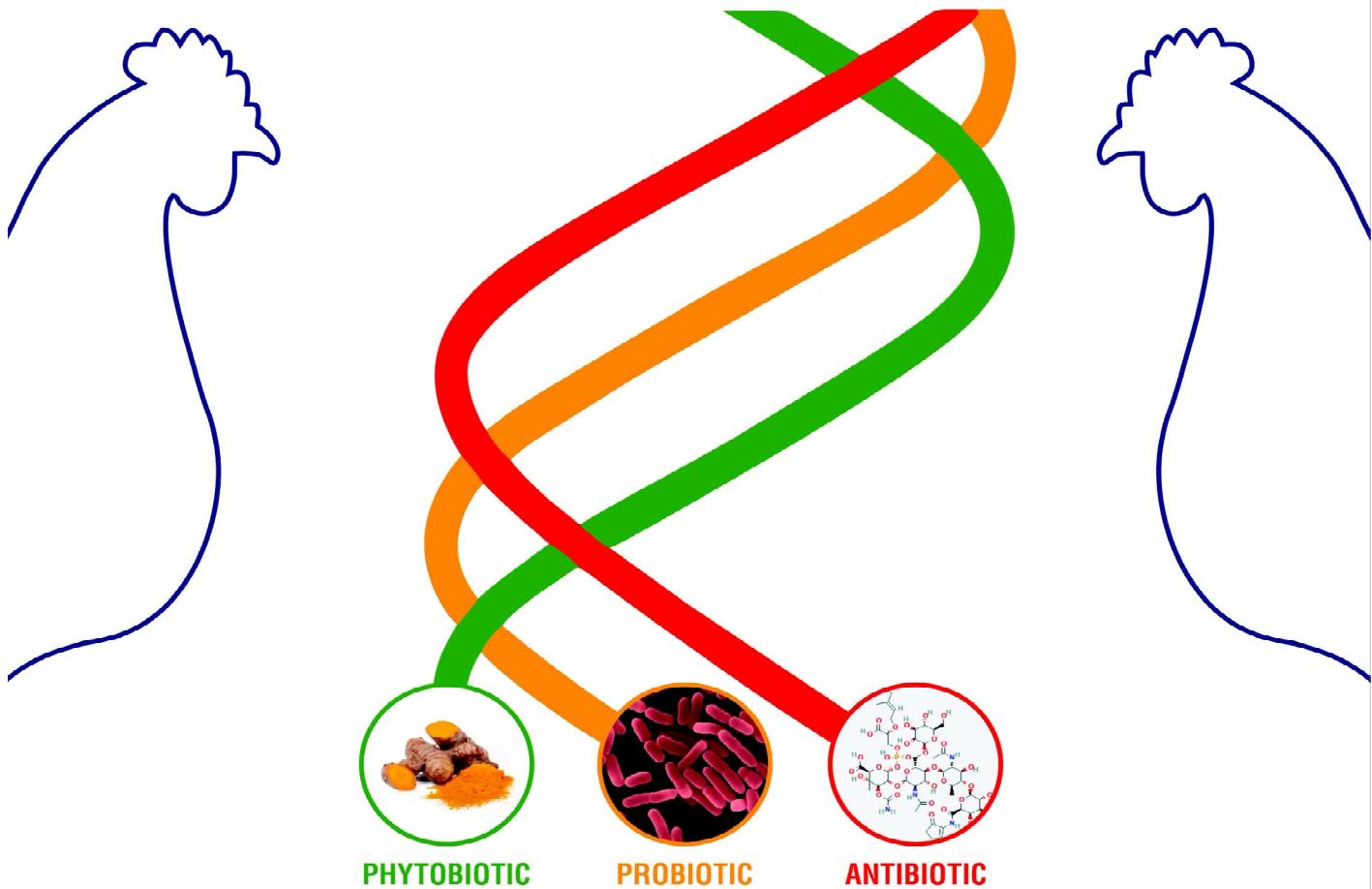
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BROILER LIFTING RATES FOR THE MONTH OF JANUARY 2023

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	118	118	118	113	113	105	110	113	115	117	117	117	117	117	117	117	117	117	107	107	102	102	102	99	99	99	99	99	99	92		
Karimnagar	118	118	118	113	113	105	110	113	115	117	117	117	117	117	117	117	117	117	107	107	102	102	102	99	99	99	99	99	99	92		
Warangal	118	118	118	113	113	105	110	113	115	117	117	117	117	117	117	117	117	117	107	107	102	102	102	99	99	99	99	99	99	92		
Mahaboobnagar	118	118	118	113	113	105	110	113	115	117	117	117	117	117	117	117	117	117	107	107	102	102	102	99	99	99	99	99	99	92		
Kurnool	118	118	118	113	113	105	110	113	115	117	117	117	117	117	117	117	117	117	107	107	102	102	102	99	99	99	99	99	99	92		
Vizag	116	116	110	107	107	103	105	105	107	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	107	107	105	105	105	105	
Godavari	121	121	121	116	116	112	115	115	117	119	119	119	119	119	119	119	119	119	114	114	114	114	114	114	114	114	110	110	106	106	106	101
Vijayawada	121	121	121	116	116	112	115	115	117	119	119	119	119	119	119	119	119	119	114	114	114	114	114	114	114	114	110	110	106	106	106	101
Guntur	124	124	121	116	116	116	116	116	118	120	120	120	120	120	120	120	120	120	115	115	115	113	108	108	108	104	104	104	104	101		
Namakkal	114	114	109	109	104	106	106	108	108	102	102	102	102	102	102	102	102	102	88	91	93	95	95	85	85	85	87	90	92	92		

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- B. Other Ades-50%
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- 2 - Aspirin
- 3 - Chromium
- 4 - Betaine
- 5 - Energiser
- 6 - Electrolyte-SDHP, DSHP, Ca Gluconate, Mg sulphate, Ca hypo phosphate, Ca Lactate etc
- 7 - Minerals
- 8 - Immune boosters

■ Product Pack :

500 Gm Pouch

■ Pack/Carton Size :

500 Gm * 35

■ USP :

- ④ Unique & Leading formulation since last 20+ yrs
- ④ Work better for **Stress and Stroke** (Hot, Cold & Other Stress)
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- ④ With Special Technology **Vit C coated with Energiser** to prolong Vit C degradation & insta energy source
- ④ **Special Value added agents** helps to protect from stroke in peak heat after 2/3 pm.
- ④ **Balanced Electrolyte and Osmoregulation.**
- ④ **Achieving Hormonal Balance** to combat stress
- ④ **Quick Relief** to birds
- ④ **Effective** than individual uses of Vit.C & other concern supplements etc.
- ④ **Addition** of of essential amino acids will help to maintain body weight in stress
- ④ **Value for money**

■ Dose :

WATER - 15 gm/ till 1kg B.Wt for 1000 birds & then after 1 gm/ 100 gm B.Wt

FEED - 200 gm/MT

■ Mode of Administration :

Water - Give total calculated dose (as per flock size) in morning drinking water (before 1 hour start of heat) as drinker/vaccine dose and complete medicated water in 1-2 hrs. Only concentrate dosing. Do not give total calculated dose through maximum water or diluted form



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- ₹ Unmatched Technical Services

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Our Chicks Practically Pays for Itself by 20th Week

Name of the Farm	State	Week hit 90% Production
JRC P F	Tamil Nadu	23
Loganathan P F	Tamil Nadu	
Periyathambi P F	Tamil Nadu	
Nanda P F	Karnataka	
Mujawar P F	Maharashtra	
Divya P F	Tamil Nadu	24
Gobinath P F	Tamil Nadu	
SRG P F	Telangana	
Imran Layer	Bihar	
Amba P F	Maharashtra	
Shivraj Metkar P F	Maharashtra	
Revathi P F	Tamil Nadu	25

Name of the Farm	State	Week hit 90% Production
Bala Krishna P F	Telangana	25
BNR P F	Telangana	
Sree Poultries	Andhra Pradesh	
Sri Kanaka Durga P F	Andhra Pradesh	
Asifa Layer	Bihar	
Brajesh	Bihar	
Umesh Yadav	Bihar	
Rubiya Hitech Poultries	Karnataka	
Bala Krishna P F	Telangana	26
G Vasanth Rao P F	Telangana	
JSR P F	Telangana	
Pravallika P F	Telangana	

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Maharashtra**

Mr. Santosh Patil



**Divya Poultry Farm,
Tamil Nadu**

Mr. Vivek Kaliannan

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- ⭐ Peak Production : **94%**
- ⭐ Weeks Above 90% : **38**
- ⭐ Hen House Eggs : **346**
- ⭐ Cumulative Feed Per Egg : **126 g**
- ⭐ Feed Per Day (Laying Period) : **102 g**
- ⭐ % Achievement of Standard H.H Eggs : **94%**
- ⭐ Feed Cost Per Egg Upto 79 Weeks @ Rs. 26/KG : **Rs. 3.28/-**

- ⭐ Flock Age : **38 Weeks**
- ⭐ Peak Production : **93%**
- ⭐ Weeks Above 90% : **12 (Still continuing)**
- ⭐ Hen House Eggs : **104**
- ⭐ Cumulative Feed Per Egg : **120 g**
- ⭐ Feed Per Day (Laying Period) : **89 g**
- ⭐ % Achievement of Standard H.H Eggs : **90%**
- ⭐ Feed Cost Per Egg Upto 38 Weeks @ Rs. 28/KG : **Rs. 3.36/-**

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② E-mail : contact@srinivasa.co
③ Phone : +91 40 23633500 / 501, +91 91000 21340
④ www.srinivasa.co | Follow us on

27/02/2023

PRESS RELEASE

IAICC Hyderabad Chapter was inaugurated on 13-February- 2023



IAICC: Indian American International Chamber of Commerce was founded in 1990 in Washington DC, with the core purpose of promoting and fostering economic development of the United States of America, Republic of India together with the rest of the world for the benefit of all.

Towards the above purpose, IAICC provides a sustainable platform and leadership forum for entrepreneurs, professionals, businesses and governments in the United States, and India to



interact, exchange and promote economic development and improve relationship between U.S., India, and rest of the world.

As a part of their growth strategy, IAICC recognised Hyderabad's importance and IAICC Hyderabad Chapter was inaugurated on 13-February- 2023.

Mr. Suresh Rayudu Chitturi, VC & MD of Srinivasa Farms Private Limited has been chosen as the first chairman of IAICC Hyderabad Chapter. Mr. Rayudu already worked as CII Chairman - Combined AP and as also Chairman, International Egg Commission. His global outlook and industry exposure will benefit this IAICC Hyderabad chapter in fulfilling it's mission





The inaugural function was graced by:

1. Sri Jayesh Ranjan, IAS Principal Secretary, ITE&C, Government of Telangana
2. Mr. K V Kumar, Executive Chairman, IAICC
3. Mr. Vagish Dixit, Chairman of CII, Telangana

Mr Suresh Rayudu was announced as Chairman, IAICC Hyderabad Chapter during the inaugural function held at Hotel Marigold, Hyderabad, which was attended by prominent business & industry personalities

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NATIONAL EGG CO-ORDINATION COMMITTEE

DAILY / MONTHLY EGG PRICES DECLARED BY NECC AND PREVAILING PRICES AT VARIOUS PRODUCTION CENTRES (PC) AND CONSUMPTION CENTERS (CC) FEBRUARY 2023

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	Average	
NECC SUGGESTED EGG PRICES																														
Ahmedabad	475	480	483	483	460	462	465	465	445	445	435	440	442	445	445	445	445	445	445	445	448	450	450	435	435	435	435	450.29		
Ajmer	445	445	430	412	412	412	402	402	375	370	372	390	395	395	385	385	395	395	395	395	380	380	380	385	397	400	397	400	397.64	
Bawali	435	420	415	402	402	402	402	402	381	381	381	381	386	391	391	391	391	391	391	403	378	378	378	378	382	392	395	394		
Bengaluru (CC)	465	465	465	465	465	465	465	465	445	445	445	445	450	450	450	450	450	450	450	450	450	440	440	440	440	440	440	440	451.25	
Brahmapur (OD)	462	465	465	460	460	460	460	460	439	439	439	429	434	437	441	436	436	436	436	436	436	423	423	423	423	423	423	423	434	440.86
Chennai (CC)	480	480	480	480	480	480	480	480	455	455	455	455	465	465	465	465	465	465	465	465	465	465	465	465	465	465	465	468.39		
Chittoor	473	473	473	473	473	473	473	473	448	448	448	448	448	448	448	448	448	448	448	458	458	458	458	458	458	458	458	461.39		
Delhi (CC)	445	454	454	435	421	421	421	421	421	421	421	400	400	395	398	405	410	410	410	410	410	421	421	421	421	400	400	400	415	415.07
E.Godavari	440	445	445	445	445	445	445	445	445	445	445	415	415	415	408	411	414	409	409	409	409	409	409	409	409	409	409	410	418.46	
Hospet	425	425	425	425	425	425	425	425	405	405	405	405	405	405	405	410	410	410	410	410	410	410	400	400	400	400	400	411.25		
Hyderabad	423	426	426	410	412	415	415	415	390	390	380	380	383	386	389	389	389	389	389	392	395	395	385	385	385	370	375	380	385	394.79
Jabalpur	453	453	453	440	430	415	415	415	421	421	410	417	420	420	405	405	407	407	407	407	407	407	407	407	407	407	412	412	418.07	
Kolkata (WB)	505	507	507	507	507	507	507	507	490	490	490	490	490	490	490	475	475	475	475	475	468	460	460	460	460	460	460	465	470	480.82
Ludhiana	426	436	436	421	416	401	401	401	391	381	381	381	381	381	388	388	392	392	392	392	392	405	405	386	379	379	383	393	397.68	
Mumbai (CC)	478	483	486	486	470	475	475	475	450	450	440	440	443	446	449	449	449	449	449	449	449	452	455	455	445	445	445	445	456.96	
Mysuru	465	465	465	465	465	465	465	465	448	448	448	448	448	448	448	453	453	453	453	453	453	453	453	453	453	453	453	453	453	453.11
Namakkal	460	460	460	460	460	460	460	460	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	445.71	
Pune	500	500	500	490	480	480	480	480	465	465	450	450	455	455	455	455	455	455	455	455	457	459	459	454	449	449	449	449	465.32	
Raipur	455	460	460	450	450	445	445	445	420	415	420	420	425	425	415	410	410	410	410	410	410	410	405	405	405	405	405	407	412	424.79
Surat	490	495	500	500	480	480	485	485	465	465	465	465	450	450	455	455	455	455	455	455	455	455	440	440	440	440	440	440	440	462.32
Vijayawada	440	445	445	445	445	445	445	445	415	415	415	415	408	411	414	409	409	409	409	409	409	409	409	409	409	409	409	409	418.46	
Vizag	480	460	460	460	460	460	460	460	440	440	440	440	440	440	440	420	420	420	420	420	420	420	400	400	400	400	400	405	410	434.82
W.Godavari	440	445	445	445	445	445	445	445	415	415	415	415	408	411	414	409	409	409	409	409	409	409	409	409	409	409	409	409	418.46	
Warangal	425	428	428	412	414	417	417	417	392	382	382	382	385	388	391	391	391	391	391	391	391	391	397	387	387	387	387	387	387	396.79
Prevailing Prices																														
Allahabad (CC)	500	500	490	480	476	467	462	452	448	443	429	429	433	443	443	443	443	443	443	443	448	448	448	448	448	448	448	451.39		
Bhopal	475	475	475	460	440	440	425	425	405	410	410	425	425	425	425	410	410	415	415	415	415	405	405	405	405	405	405	405	425.18	
Indore (CC)	470	470	460	440	440	435	425	420	420	410	410	425	425	420	420	410	410	405	405	405	405	400	400	400	400	400	400	400	420	423.75
Kanpur (CC)	452	462	462	448	433	433	419	419	419	405	405	405	405	467	467	467	467	467	467	414	414	414	424	424	424	424	424	424	423.79	
Lucknow (CC)	513	513	500	500	490	480	480	480	467	467	467	467	467	467	467	467	467	467	467	467	433	433	433	433	433	433	433	433	461.14	
Muzaffarpur (CC)	487	490	490	470	460	460	460	460	440	440	440	440	440	440	440	440	440	440	440	440	450	450	450	450	450	450	450	450	456.14	
Nagpur	450	460	460	440	440	445	445	440	440	440	440	440	440	440	440	415	415	415	415	415	415	415	415	415	415	415	415	415	415	422.14
Patna	487	490	490	470	460	460	460	460	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	440	456.14	
Ranchi (CC)	486	500	486	486	476	476	467	467	467	467	467	467	467	467	467	467	467	467	467	467	467	467	467	467	467	467	467	467	460.93	
Varanasi (CC)	490	497	497	483	467	467	457	457	457	457	457	457	457	457	457	457	457	457	457	457	463	463	463	463	463	463	463	463	463	456.82

Managemental Factors Affecting Hatching of Chicken Eggs

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Introduction: At the time a fertile egg is laid, there is already a small embryo floating on the yolk. The vitality of this embryo must be preserved during storage until the point in time when the incubation process starts. To achieve this, the eggs are handled carefully and temperature fluctuations avoided as much as possible under practical conditions (Barten, 2007). Beside this common practice, specific management procedures may help to minimize the loss of hatchability during extended egg storage. Optimum hatchability and chick quality can only be achieved when the egg is held under ideal conditions between laying and setting in the incubator. Once the egg is laid, its hatching potential can be only maintained, but not improved.

The following factors are of major importance for the production of hatching eggs that produce high quality chicks:

A. The genetic make up

The genetic makeup of the parent stock is very important. The parent stock should be vigorous. Here again rearing plays an important part. Sexing errors need to be eliminated as chicks from false crossings do not possess the predicted characteristics.

B. The housing of the flock

The parent stock flock needs to be housed in well ventilated houses with correct indoor temperatures, litter in good condition (dry, not dusty, not crusty, without moulds), a well adjusted lighting program, sufficient feeder and watering space per bird. Ventilation is the most efficient method to reduce the amount of micro organisms in the air, which may contaminate the hatching egg. A correct control of the fans-eliminates draught, maintains an ambient temperature and supplies sufficient fresh air in the house. At the onset of lay the depth of litter should not be too deep as this may result in many floor eggs. Instead of wood shavings coarse sand may be used. If drinkers stand or hang above the litter wet spots may be found, in which rotting bacteria may develop. Concrete floors are essential for a good disinfection and the prevention of repeating worm infestations.

C. Flock health and applied vaccination program

Never vaccinate against Infectious Bronchitis (IB) during the laying period. The importance using only hatching eggs from healthy disease free parent stock will be clear in one realizes that a number of poultry diseases are egg transmitted to the offspring. Use only PPLO and *Salmonella pullorum* free parent stock. It is well to remember that the temperature and the humidity of the incubator create perfect conditions for the development of micro-organisms which are the causative agents of many poultry diseases. Also the incubator is an ideal place for multiplication and distribution of diseases which are on or inside the hatching eggs (Brooder's pneumonia & Omphalitis). Some anti-coccidiostats and antibiotics may be harmful to the hatching result if applied during the laying period.

D. Feed and water

At the onset of egg production, special attention should be paid to the vitamin and trace element contents of the ration as well as to a proper balance in calcium allowances. Thin shelled eggs lower the hatching result. During stress periods give extra vitamins. Unbalanced feed and diseases may cause enteritis, whereby the absorption of the nutritional compounds decreases, which results in poor hatching eggs, lower hatchability and weak day old chicks. Drinkers and feeders need to be cleaned regularly to prevent the growth of moulds and the development of other micro-organisms. Pure – non ferrous – drinking water should be provided to obtain a good production and good hatching results.

E. Male to female ratio

As production starts at least 8 males per 100 hens should be present. Ten males per 100 females represent the utmost limit. An excess as well as a shortage of males will cause fertility problems in the flock.

F. Age of the flock

It is wrong to expect good hatching results of first quality chicks from birds of 24 weeks or less. One should not collect hatching eggs from light breeds before 25 weeks

of age. The poor hatching results at the onset of egg production is probably due to the relatively small yolks. Best hatching results are obtained from eggs collected from birds between the 8 and 13 months of age.

G. Flock performance

Generally, there exists a positive correlation between production and hatchability. Any factor bringing about a drop in production may affect hatchability as well.

H. Egg-size

In general large eggs do not hatch well. The acceptable weight of hatching eggs ranges from 50 to 70 grams. Neither to large nor too small eggs is used for hatching.

I. Shell quality

In selecting hatching egg, the requirements regarding shell quality and egg shape will be higher for layers than for broilers. Thin shelled eggs tend to crack more easily with the consequent risk of contaminating other eggs and they should, therefore, not be used as eggs for hatching. At peak production, during periods of extreme temperatures and at the end of the production period, special attention should be given to a proper balance in calcium allowances (supplementary oyster shell).

J. Nesting arrangements

With individual nest boxes, 1 nest per 5 hens should be provided and a satisfactory layer of clean nesting material should be available. The nests, if not automatic or semi automatic, should have clean litter. Broken eggs and dirty litter must be removed promptly since their contents must be considered as a potential hotbed of parasitic micro-organisms. To prevent roll-away nests getting dirty take care that bottom of the nest has a good slope and is cleaned regularly.

K. Gathering eggs

Frequent egg collections are determined by the season of the year, climatic conditions and the type of nests. At the moment an egg is laid it has a temperature of 41°C (105°F) which is the body temperature of the hen. After an egg has been laid this temperature should decrease gradually till 27°C (80°F) within approximately 6 hours. At this temperature the embryonic development slows almost to a standstill. If hatching eggs are kept at temperature above 27°C the blastodisc development continues and when cooled down this overdevelopment blastoderm may later on die. Cooling down too quickly is not good. In this case the blastodisc development is delayed which may result in a weak blastoderm, which may die too. Those hatching eggs having a chance of gradual cooling-down get strong blastodisc which may well stand storage and transport. From the foregoing it is obvious

that frequent collections of hatching eggs is a must to obtain high quality hatching eggs.

L. The storage of hatching eggs

For the storage of hatching eggs one needs a good egg storage room. This room should have two compartments, one for cleaning, grading of eggs and storage of packing material and the other for the storage of hatching eggs. The latter needs to be fitted with a cooling and heating system and should be well insulated to maintain a constant temperature and humidity. For each square meter one may store 22 boxes (each of 360 eggs = 7920 eggs). In general it is recommended to store hatching eggs at a temperature of 18°C. However one needs to distinguish according to the length of the period that the eggs are stored. The optimum temperature for eggs which are stored during 3 to 4 days is probably 18°C. For a period from 4 up to 7 days the optimum temperature should be 16°C.

If the storage is for more than 7 days the temperature needs to be 15-16°C. When the temperature is lower, dew on the eggs can occur. During storage loss of moisture from the egg takes place due to water evaporation. The correct relative humidity is 72%. Storing conditions however must never reach the dew-point when condensation on the shell surface would provide favourable conditions for microbial growth. It is absolutely necessary to maintain a constant temperature, otherwise the relative humidity will fluctuate too. The ventilation needs to be restricted to a minimum. If a cooling system is not present, during the night fresh cool air may be let in, while during the hot periods of the day the egg storage room should be kept locked. During the transportation of hatching eggs avoid shocks in order to prevent cracks. At least twice a week (better daily) the eggs need to be taken from the egg supply farms and transported to the hatchery if an egg storage room is not available on the farm.

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WELTEC BIOPOWER and GTS extend service partnership for UK and Ireland Biological service for WELTEC biogas plants comes from Vechta, Germany



WELTEC BIOPOWER has extended the successful cooperation with its service partner, Gordons Technical Service Ltd (GTS) from Northern Ireland, until the end of 2026. GTS Managing Director Trevor Gordon (left) and Service manager at WELTEC BIOPOWER Rüdiger Ötken (right).

2023 WELTEC BIOPOWER and GTS extend service partnership for UK and Ireland Biological service for WELTEC biogas plants comes from Vechta, Germany. WELTEC BIOPOWER has extended the successful cooperation with its service partner, Gordons Technical Service Ltd (GTS) from Northern Ireland, until the end of 2026. The German biogas plant manufacturer's cooperation with GTS has been in place since 2017 and applies to WELTEC customers from Great Britain and the Republic of Ireland. Both companies have many years of experience in the region. WELTEC

BIOPOWER had built one of the first biogas plants in England in 2006 and is one of the pioneers of biogas plant construction there.

GTS Managing Director Trevor Gordon also has expertise in the field and has, for example, been successfully responsible for servicing WELTEC's Ballyrashane Creamery plant. The plant processes dairy waste, energy crops and cattle slurry. Since Irish dairy cooperative Lakeland Dairies acquired Ballyrashane in 2019, GTS has been involved significantly in repairs, new installations and commissioning upgrades to increase the plant's performance. „The support of Trevor and the GTS team is very important to us – especially their assistance with continuous improvements,“ emphasizes Ballyrashane Creamery's Environmental Manager, David Hughes.

GTS offers a wide range of services, from fixing minor breakdowns of stuck valves to replacing



The operators of WELTEC plants in the UK and Ireland, are in direct contact with the biology team in Vechta: Dr. Katharina Tabke (left) and Wiebke Dammann (right), both biology team.

roofs, mixers, and servicing the MULTIMix liquid input system. In addition, there are regular maintenance and remote monitoring services. This also includes necessary modifications to the plant control system, which are carried out on site together with WELTEC specialists. Ultimately, the service ensures efficient operation for a high energy yield. „We value enormously at GTS that the team can be at any WELTEC plant in the region within twelve hours if necessary,“ says the service manager at WELTEC BIOPOWER, Rüdiger Ötken.

Another success factor is the stable biological digestion process. The operators of WELTEC plants in the UK and Ireland, are in direct contact with the biology team in Vechta for this purpose. The service includes monthly process monitoring and regular laboratory analyses of the biological parameters as well as individual trouble-shooting. For this purpose, digester samples have to be examined and assessed by the biological service. This enables economical operation. In addition, the optimization of the substrate mix through the assessment of feed materials and feed changes – even during the planning phase of a plant. The service package is rounded off by fermentation tests when new substrates are used, the preparation of biological start-up plans during commissioning, and biological training on the plants.

Also on the basis of these services, WELTEC BIOPOWER has succeeded in helping to build up the biogas industry in the UK and Ireland. Because only with the help of a technically well-engineered and biologically stable production process, operating costs are reduced and the profitability of biogas production is secured.

Company Portrait

The WELTEC Group from Vechta, Germany, has developed into a globally leading specialist for the construction and operation of biogas and biomethane plants since it was founded back in

2001. The Group designs, plans and sets up energy plants, operates them on a permanent or temporary basis, provides 24/7 service and delivers sustainable usage concepts for output flows, thereby covering the entire biogas value chain.

The establishment of individual, technically mature solutions up to a plant size of 10 MW is one of the strengths of WELTEC BIOPOWER. The high proportion of custom-developed components is a key success factor. Moreover, the use of stainless-steel technologies ensures flexible substrate input, quick and inexpensive assembly and a consistently high quality standard, regardless of the location. Following the commissioning, WELTEC's mechanical and biological service plays a significant role in ensuring the plant efficiency.

The company also boasts a wealth of experience in the field of biogas generation and utilisation. The company's nine decentralised plants generate 96 million standard m³ of biogas a year. A portion is processed to biomethane and made available to energy suppliers and petrol station operators via the public gas network. Additionally, at 16 locations in Germany – e.g. in the field of horticulture, housing construction and healthcare as well as communities – the biomethane is used for generating heat within the framework of WELTEC energy contracting.

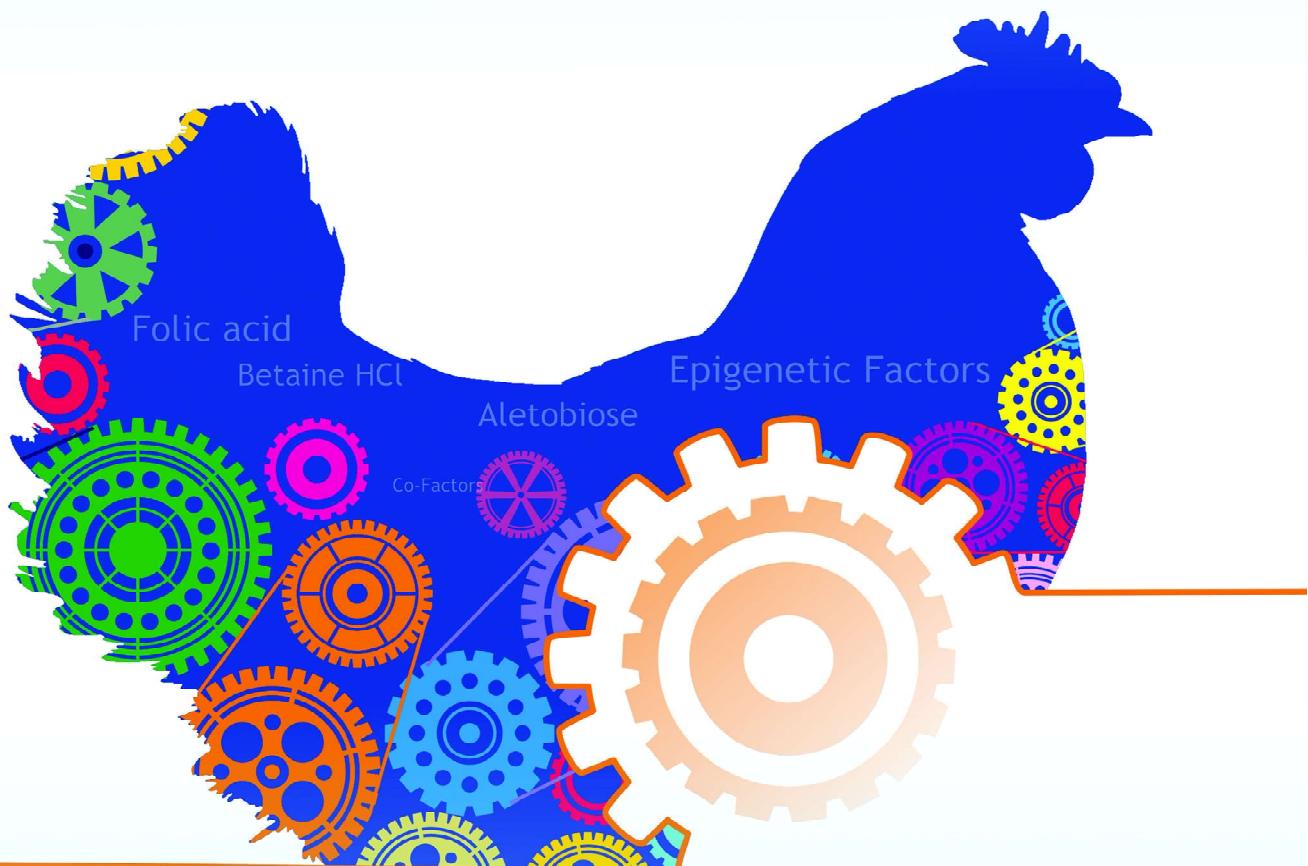
The biogas specialist is well aware of the importance of customer and investor proximity. Accordingly, the Group's sales and service network spans the entire globe. The range of customers includes businesses from industries such as agriculture, food, waste and wastewater. So far, the 120 employees of the WELTEC Group have implemented more than 350 energy plants in 25 countries on five continents. All in all, the biogas specialist ensures annual savings of around 530,000 tons of CO_{2eq}.



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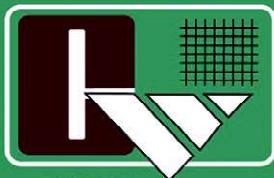
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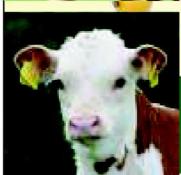
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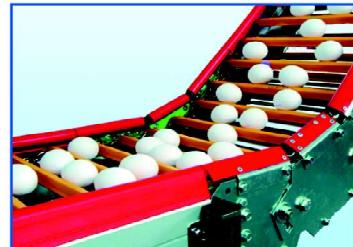
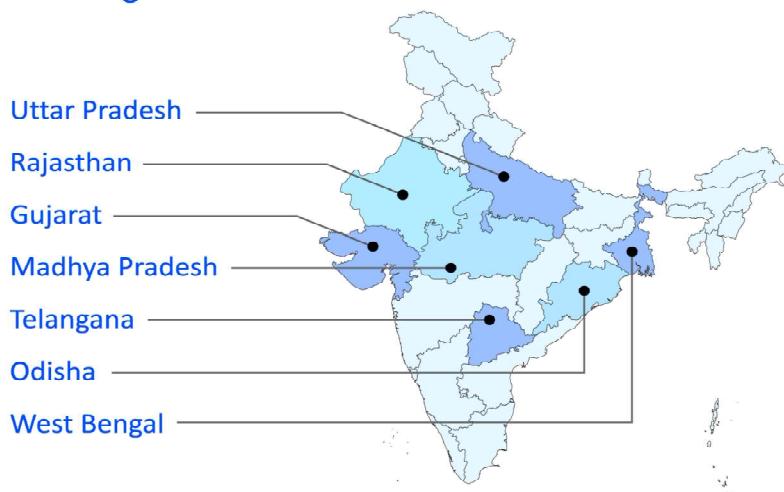
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