

# POULTRYLINE



Readership — Poultry Wide

VOLUME - 23

ISSUE - 3

ANNUAL SUBSCRIPTION RS. 500/-

MARCH 2023

Rs. 50/-

## Overcome HEAT STRESS



### Himalaya Wellness Company

Makali, Bengaluru 562 162, India

[www.himalayawellness.com](http://www.himalayawellness.com)

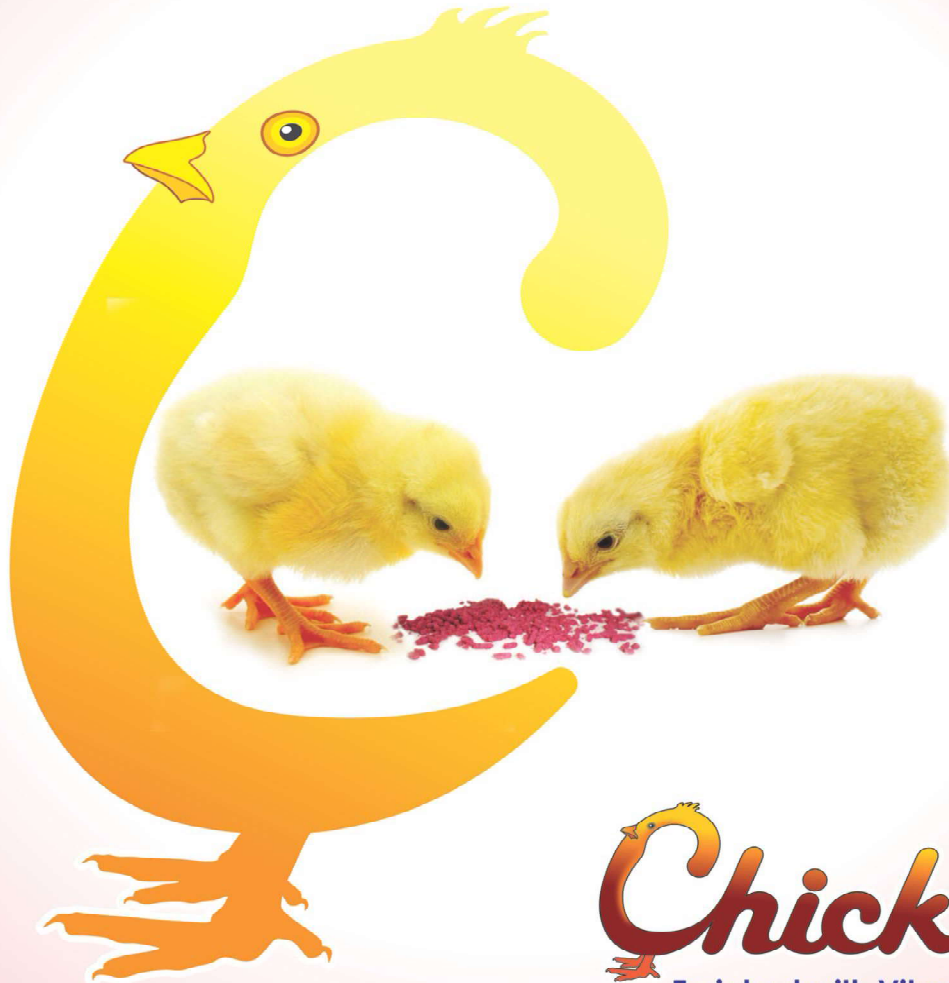
E-mail: [write.to.us@himalayawellness.com](mailto:write.to.us@himalayawellness.com)

### A Natural Alternative to Vitamin-C

- Controls stress
- Maintains immunity

Can be used in feed & drinking water

Excellent start for  
**Chicks**



**Chickline**<sup>™</sup>  
Enriched with Vitamins & Minerals

*Prevents dehydration and starvation stress during transit and during prolonged chicks holding*



For further information please contact :

**VENKY'S (INDIA) LIMITED**  
ANIMAL HEALTH PRODUCTS DIVISION  
An ISO 9001 Certified Company



"Venkateshwara House", S.No.: 114/A/2, Pune - Sinhadgad Road, Pune - 411 030 (India)  
Tel : 020 - 24251803 Fax : +91-20-24251060 / 24251077  
www.venkys.com  
E-mail : ahp@venkys.com

Leading Feed Additives Manufacturer with Innovation

# Halquinol®

Chlorohydroxyquinoline

98%, 60%, 12.5%



AGP's, ANTI MYCOPLASMA and INJECTABLES

**CHLORNEX® 15%**

Truly Broad Spectrum Feed Antimicrobial In Need  
CHLORTETRACYCLINE HCL

**AvilaDian™ 100**

100g/kg Avilamycin

**Nutrimulin+**

Blend of Tiamulin Hydrogen Fumarate and CTC

**Tyloplus® 25%**

A Revolutionary 3rd Generation Macrolide Antibiotic  
TYLVALOSIN TARTRATE

**Tyloplus®**

Tylosin Injection IP (Vet) 20%

Overcome Challenges and Problems with

**nutrimycin® 80**

Bambermycin/ Moenomycin/ Flavophospholipol - 80mg/gm

**EnRex®**

Enramycin 8% Granules

**Nutrimulin 10% / 80%**

Tiamulin Hydrogen Fumarate 10% / 80%

**Nutrikacin**

Amikacin Sulphate I.P.



ANTICOCCIDIALS

**NBAN**

8% Nicarbazin + 8% Narasin in a Granular Premix

**N Carb**

80g/kg monensin + 80g/kg nicarbazin

**max**

7.5g/kg Maduramycin Ammonium 80g/kg Nicarbazin

**max-DS**

15g/kg Maduramycin Ammonium 160g/kg Nicarbazin

**NutriDol™ 25%**

Highly Effective in the Prevention of Coccidiosis  
CLOPIDOL

**ROBIDIAN™ 10%**

Preferred Choice for Cleanup  
ROBENIDINE HCL

**NutriQuinate™**

60g/kg decoquinate

**Diclox**

Revolutionary CLEAN UP anticoccidial

**NutriSin-200**

200g/kg Monensin Sodium

**NutriSTAT™ 12%**

120g/kg Salinomycin Sodium

**AMPROLIUM-K**  
ORAL POWDER I.P.

SEARCH OF  
Best Non AGP

**HALQUINOL®**  
CHLOROXYQUINOLINE

ENDS HERE

From ONE of the WORLD'S  
LARGEST MANUFACTURER

{KCPL}

**nutridian®**  
ANIMAL HEALTH

Leading Innovation Through Technology  
ISO 9001:2015 certified company  
and cGMP certified company

**NUTRIDIAN ANIMAL HEALTH**

A unit of Kanad Chemicals Pvt. Ltd.

12A, Regency Park A, Eden Woods, Pokhran Road No 2, Thane (W) - 400 610.

Please contact us at : Customer Care No.: 0251-2611525

Email : info@nutridian.in • Website : www.nutridian.in • www.kanadchem.com



**KCPL**

Manufacturer & Exporter  
SINCE 1971



**LOOSING  
PROFITABILITY  
DUE TO  
LOOSE ?  
DROPPING??**



**Micro Animal Health Care**  
(A MICRO LABS GROUP ENTITY)



*Use*  
**FURALAY  
200**



**Salmonellosis**



Prevention & treatment  
of **Salmonellosis**



Prevention & treatment  
of loose droppings



Controls subclinical  
infections & subsequent  
production loss



For more information contact us...

+91-80-41640071 | vetadmin@microlabs.in



## VALUE CONSULTANTS

### *Contact for:*

- ✓ **Advisory Services**
- ✓ **Training programs**
- ✓ **Transfer of Technology**
- ✓ **Investment Opportunities**
- ✓ **Senior level Appointments**
- ✓ **Innovative technologies into India**
- ✓ **International Sourcing of Amino Acids,  
Feed Additives, Specialty Products**

**Selvan Kannan**

 **+91 98480 46244**

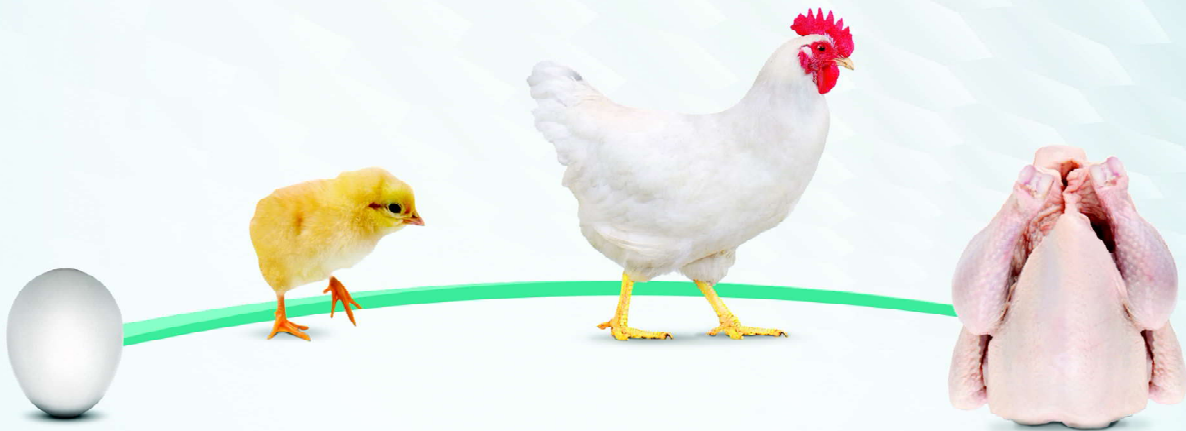
Email: [selvan@valueconsultants.co](mailto:selvan@valueconsultants.co), [Business@valueconsultants.co](mailto:Business@valueconsultants.co)  
Website: [www.valueconsultants.co](http://www.valueconsultants.co)

301, Siva Sai Apartments, Road #9, West Marredpally,  
Secunderabad - 500 026. Telangana. INDIA



Now Available  
in India

A LIFETIME OF IMMUNITY.



FROM HATCH

TO HARVEST

One single vaccine dose of VAXXITEK® HVT+IBD provides lifelong immunity<sup>1</sup> which leads to healthy birds, better performance and operational profits<sup>2</sup>. Contact your local Boehringer Ingelheim local representative for more information.

VAXXITEK® is a registered trademark of Boehringer Ingelheim group in United States of America and elsewhere.

1 & 2 Data on file.

**Boehringer Ingelheim India Pvt. Ltd.**  
Unit No. 202 and part of Unit no. 201, 2nd Floor, Godrej 2, Pirojsha Nagar  
Vikhroli (E), Mumbai 400079 | Tél.: (+91) 22 71456477



# POULTRY LINE

## పావులైన్

Editor : **B. SHIV SHANKAR**  
 Associate Editor : **B. KALYAN KUMAR**  
 Sub Editor : **R. SHAILESH NAATH**  
 Sr. Technical Editor : **Dr. M.A. MUJEEB ATHER**  
 Technical Editor : **Dr. MANOJ SHUKLA**

### TECHNICAL EDITORIAL BOARD

Dr. P.K. SHUKLA, Jt. Commissioner Poultry, G.O.I., New Delhi.  
 Dr. J.L. VEGAD, Phoenix Group, Jabalpur.  
 Dr. V. RAMASUBBA REDDY, Retd. Professor, Agri. Uni. Hyd.  
 Prof. G. DEVEGOWDA, M.V.Sc., Ph.D., (USA), B'lore.  
 Dr. D. CHANDRASEKARAN, Prof&Head, Vet.Col.& Res.Ins. Nammakal.  
 Dr. A.U. QIDWAI, Dy. Director, Directorate of A.H., Badshahbag, Lucknow  
 Prof. DEVAREDDY NARAHARI, M.V.Sc., Ph.D.Chennai.  
 Dr. V. KRISHNA RAO, Poultry Consultant, Hyderabad.  
 Dr. S.V. RAMA RAO, Scientist RJNR, Hyderabad.  
 Dr. A.K. PANDA, Scientist, PDP, RJNR, Hyderabad.  
 DR PANKAJ DEKA, AAU, Khanapara, Guwahati  
 DR MIHIR SARMA, AAU, Khanapara, Guwahati  
 Dr. B.S. VENKATARAMI REDDY, Prof. & Head, Hebbal, B'lore.  
 Dr. SUJIT KULKARNI, Sales Director, Biomin Singapore Pte Ltd.  
 Dr. JYOTI PALOD, Professor, C.V.A.Sc., Pantnagar.  
 Dr. RAMDAS S. KAMBALE, SBU Head & Chief - AHD - Chembond Chemicals  
 Dr. S. NANDI, B.V.Sc. & A.H, M.V.Sc., Ph.D., IVRI, Izatnagar, U.P.  
 Dr. D. SAPCOTA, M.V.Sc. (APAU) Ph.D. (IVRI) Guwahati.  
 Dr. B.K. SWAIN, M.V.Sc., Ph.D., Ela, Goa.  
 Dr. NIRANJAN KALITA, M.V.Sc., Ph.D, Professor, Guwahati.  
 DR. S. K. KHURANA, Associate Prof., COVAS, Palampur (HP)  
 Dr S K MUKHOPADHAYAY, Asso. Prof.(Vety Pathology) WBUAFS, Kolkata.  
 Dr SUBHA GANGULY, Scientist, AICRP-PHT, Kolkata Centre.  
 Dr LOKESH GUPTA, Tech Mgr-Poultry, Alltech India.  
 DR VIJAY SWAMI, M.V.Sc., A.H., Country Manager, SunHY Biology Co. Ltd.  
 DR ATUL BHAGWANSINGH RAJPUT, DGM, Sales, Optima Lifescience

B. Shiv Shankar - Managing Partner  
 B. Kishore Kumar - Media Executive  
 B. Shailajaa - Circulation Manager  
 J. Upender Rao - Marketing Manager South Telangana  
 Sathyendranath - Marketing Manager North Telangana  
 Hari Prasad - Head, Designing Department  
 P.N. Nithin - Incharge - Photography  
 K. Raghuramaraju - Publication Consultant (09440231211)

### CONTENTS

1. Editorial ..... 9
2. RNI Form IV ..... 10
3. 9th Edition of Kolkata International ..... 11-13
4. WBPF Kolkata awarded Dr. Pankaj Deka ..... 14
5. New Dynamic Leadership Team at CLFMA ... 15-16
6. VETY, AAU Honoured Dr Niranjana Kalita ..... 17
7. ABTL ..... 27-32
8. Rossari participated in the 9th KIPF ..... 37-38
9. Bentoli PR ..... 41
10. GLOCREST ..... 43-45
11. Assam PR ..... 49-53
12. Avitech PR ..... 55-57
13. Broiler Rates ..... 58
14. IAICC Hyderabad Chapter ..... 63-64
15. Egg Rates ..... 65
16. Managemental Factors Affecting .....  
- S. K. Joshi ..... 66-67
17. WELTEC BIOPOWER ..... 68-69

**Poultry Line may not necessarily  
 subscribe to the views expressed in  
 the Articles published herein.**

### TEJASVI PUBLICATIONS

2-1-444/16, 1st Floor, O.U.Road, Nallakunta, Hyd. - 500 044.  
 Ph: 040-2761 0027, Cell : 98493 68003, 63096 77047  
 www.tezasvipublications.com  
 E-mail : tezasvipoultryline@gmail.com  
 tejasvi\_poultryline@rediffmail.com

## INDEX OF ADVERTISEMENTS

Particulars	Page No.	Particulars	Page No.
Anand Animal Health Pvt. Ltd.	61	MSD Animal Health	Title Cover III
ABTL	26	Microlab	4
Alltech	33	Nutridian Animal Health	3
Avitech Nutrition	54	Omega Group	74
ATA Packaging	55	Optima Life Sciences Pvt. Ltd.	70
Bentoli AgriNutrition India Pvt. Ltd.	40	Poultry consultancy services	13
Boehringer Ingelheim India Pvt. Ltd.	6	Provet Pharma Pvt Ltd.	59
Bhu Tox	20	RR Veterinary Health Care Pvt. Ltd.	72
Chromiate-C	34	Regen Bio-Corp	22-23
DSM Nutritional Products India Pvt Ltd.	35	ROSH-C+	60
Eco-Mix	8	Rossari Biotech Limited	36
Exotic Bio Solutions Pvt. Ltd.	71	Sai Krishna Plastic Industries	73
EggMaster Agro Products	46	Shri Laxmi Ganapathi Agencies	56
EggMaster Poultry Breeders	47	Sri Lakshmi Packaging Company	57
Glocrest Pharmaceutical Pvt. Ltd.	42	Srinivasa Farms Private Limited	62
Hipra India Pvt. Ltd.	25	SS Associates	45
Himalaya Wellness Company	78 & Title Cover I	Uttara Impex Pvt. Ltd.	19
India Poultry Expo 2023 : Nashik	77	Value Consultancy	5
Indian Herbs Specialities	24	VHPL	Title Cover II & IV
Itpsa	75	Zeus Biotech Limited	48
Jain Irrigation	18	Zoetis India Limited	21
Karamsar	64	Zenex	39
Lubing India Pvt. Ltd.	76		



### CUT SHORT YOUR FEED COST

# Eco-Mix

LEAST COST FEED FORMULATION SOFTWARE FOR  
POULTRY, DAIRY AND ANY KIND OF LIVESTOCK



## LOGIC SOFT SOLUTIONS

Flat No. 101, H.No. 1-1-565, Raghavendra Apts., New Bakaram,  
Musheerabad, Hyderabad - 500.020. (A.P.) INDIA  
E-mail: [contact@logicsoftsolutions.com](mailto:contact@logicsoftsolutions.com) [www.logicsoftsolutions.com](http://www.logicsoftsolutions.com)

**Y.SRINIVAS**  
Cell : +91-9849039200



*From the Editor's Desk.....* 



## Think it over!

Indians have a meteoric rise in the World Stage today. Though India is among the world's 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.

1. Place of publication : Hyderabad
2. Periodicity of its publication : Monthly
3. Printer's Name : Karshak Art Printers  
Nationality : Indian  
Address : Nallakunta, Hyderabad
4. Publisher's Name : B. Kalyan Kumar  
Nationality : Indian  
Address : Nallakunta, Hyderabad
5. Editor's Name : B. Shiv Shankar  
Nationality : Indian  
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**



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

### **9<sup>th</sup>.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.

### **8<sup>th</sup> 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.

### **9<sup>th</sup> 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),Swamy 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

(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.

### **10<sup>th</sup> February**

The special attraction of the third day of the fair(10<sup>th</sup>.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) “Phytogenics: Plant Energy for a Sustainable Future” beautifully presented by Natural Remedis Dr. Chandan Chatterjee.
- (4) Dr. Pushparaj Chowdhury of Boehringer 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 Nizeria 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+

### 11<sup>th</sup>.February

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

10<sup>th</sup>.KIPF will be held on 7<sup>th</sup>.8<sup>th</sup>.9<sup>th</sup>.Feb'24

## Free Lance Poultry Consultant

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



### His areas of expertise include:

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

He can be Contacted at:- **Dr. Manoj Shukla**

A-1,Gaytri Nagar,Phase-II, P.O.Shankar Nagar,Raipur, Chhattisgarh-492007

Mob.No : 09644233397, 07746013700, Res. 0771-4270230

Email : [drmanu69@gmail.com](mailto:drmanu69@gmail.com)

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 stake holders 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 Pasuparthi, 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. Narender Reddy : Natural Remedies Pvt. Ltd.
  20. Dr. Anup Kalra : Ayurved Limited
  21. Dr. Vijay Makhija : Intervet India Pvt. Ltd.
  22. Mr. Jaison John : U. S. Soybean Export Council, Inc.



**CLFMA Managing Committee 2022-2024**



## **Directorate of Research (VETY), Assam Agricultural University Honoured Dr Nirranjan Kalita**

Directorate of Research (Vety); Assam Agricultural University, Khanapara has honoured Dr Nirranjan 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.



# Livestock and Poultry Cooling System "For healthy livestock & Herd"



## POULTRY CLIMATE CONTROL FOGGING / MISTING SYSTEM BENEFITS

- Misting / Fogger provide heat stress relief for all categories of poultry.
- Mortality is dramatically reduced.
- Stress-free broilers continue to eat and grow.
- Layers produce more eggs. Breeders are more active and produce higher quality eggs.
- Poultry misting lowers heat stress, which has many positive benefits
- Prevent catastrophic mortality
- Produce healthy eggs and meat from chicken's

### JAIN FOGGERS



Jain Turbo Fog



Jain Modular Sprinkler



Jain Super Fogger



Jain Single Way Fogger



Jain Green Mist

### JAIN AUTOMATION CONTROLLERS



IrriCare



Spirit - Pro



**Jain Irrigation Systems Ltd.**

Small Ideas. Big Revolutions.®

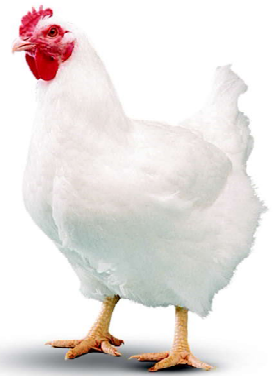
E-mail: [jainhyderabad@jains.com](mailto:jainhyderabad@jains.com)

**Head Office:** Jain Plastic Park, P. O. Box 72,  
Jalgaon - 425 001, India. Tel: +91 257 225 8011;  
Toll Free: 1800 599 2000; E-mail: [jisl@jains.com](mailto:jisl@jains.com);  
website: [www.jains.com](http://www.jains.com).

**Offices:** Ahmedabad: 079-26421704; Assam: 0376-2341030; Bangalore: 080-41321087; Baroda: 0265-2356727; Belgaum: 0831- 2356727; Bhubaneswar: 0674 - 2563010; Burhanpur: 07325 - 242081; Chandigarh: 0172-2600901; Chennai: 044-24721109; Coimbatore: 0422- 4357318; Dehradun: 0135-2669865; Hyderabad: 040-27612593, 9440797824; Indore: 0731-4261430; Jaipur: 0141-2203515, 09414055432; Lucknow: 0522-4021067; Mumbai: 022-22620011; New Delhi: 011-26691569; Ranchi: 07260090437; Pune: 020-25434872; Patana: 0612-2218114; Raipur: 0771-6535987; Thane: 022-25443976; Vadodara: 0265-2356727; Vijayawada: 9440797880.



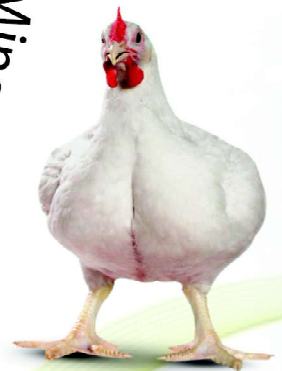
# UT GlysoMin **GOLD**



Better Availability Better Performance With Glycinated Trace Minerals



25 Kg Bag



## UTTARA IMPEX PVT. LTD.

Feed Supplement Division, Venkateshwara House, Pune.

For trade Enquiry Contact : North India – Mr. Hariom Singh Chauhan / +919552526901,  
East India – Mr. Kunal Goswami - / +918888858839, T.N – Mr. Michaelsamy - / +918778408835,  
Maharashtra – Swapnil Ballal - / +919689948713, Telangana/ Andhra Pradesh  
Orissa – Mr. Shankar Reddy - / +918008802148

Collaboration with :  **Pancosma**  
makes sense

 **B-TRAXIM** 



**Bhuvana**  
NutriBio Sciences

ISO, GMP & HACCP Certified Company

***Bhuvana's Mission Statement :***  
***Science Should Convert***  
***To Applied Science***  
***With Commercial Viability***  
***& Poultry Producers First***

Solutions through Water

***Beatz-Se Powder***

*Power to birds*

*India's Most Trusted  
Immunomodulator (Vit.E+Se+Others)*

***BPower GLH***

*Next Gen Performance Booster*

*Multifunctional Multitonic Unique  
Formulation for Growth & Defence*

**BhuTox**

Complete Solution for Toxins & Moulds

**OreMix LB**

Scientific, Rich & Economical formulation  
of Organic & Inorganic Trace Minerals


Solutions through Feed

**Bhuvana NutriBio Sciences**

E.7, 2nd Floor, Above Mahavir Motors, Opp. Gate No.1,  
Market Yard, Gultekadi, Pune. 411037, India.

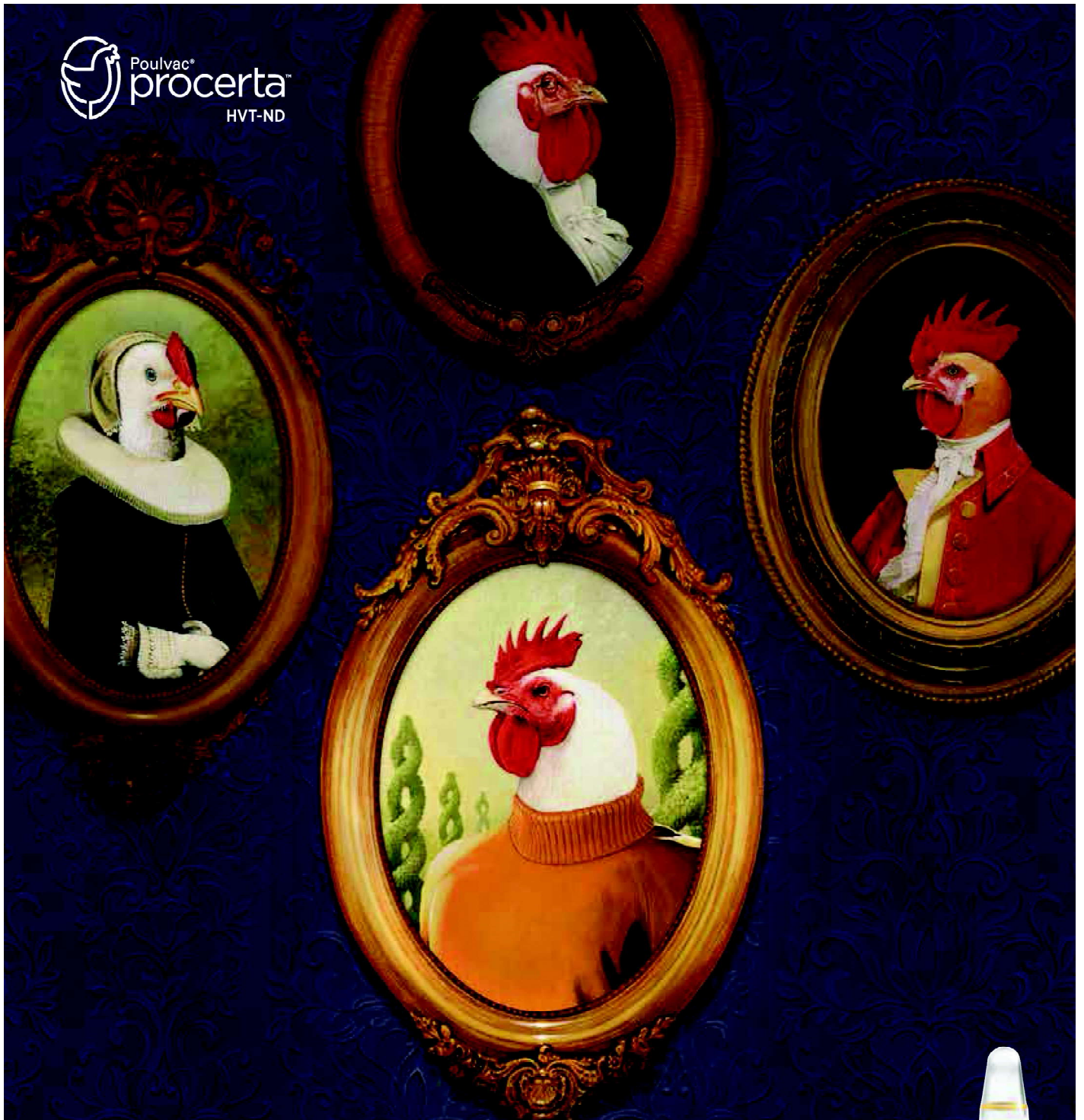
 bhuvanaseservices@gmail.com

 services@bhuvanans.com

 9850979652 | 9396686500



[www.bhuvanans.com](http://www.bhuvanans.com)



## MEET THE NEWEST MEMBER OF THE ZOETIS POULTRY LINEAGE

### Introducing Poulvac® Procerta™ HVT-ND.

The latest HVT-ND vector designed to protect your flock against Marek's disease and Newcastle disease.

When immune response is **high**, **trust** and **confidence** are too. Delivered via the Inovoject® System, an Embrex® Biodevice from Zoetis, this new vector offers competitive onset of immunity against Newcastle disease<sup>1</sup>. For details and data please visit Poulvac® Procerta™ com.

<sup>1</sup> Data on file, Study Report No. BB15R-US-1B-A46, Zoetis Inc. All trademarks are the property of Zoetis Services LLC or a related company or a licensor unless otherwise noted. © 2020 Zoetis Services LLC. All rights reserved.

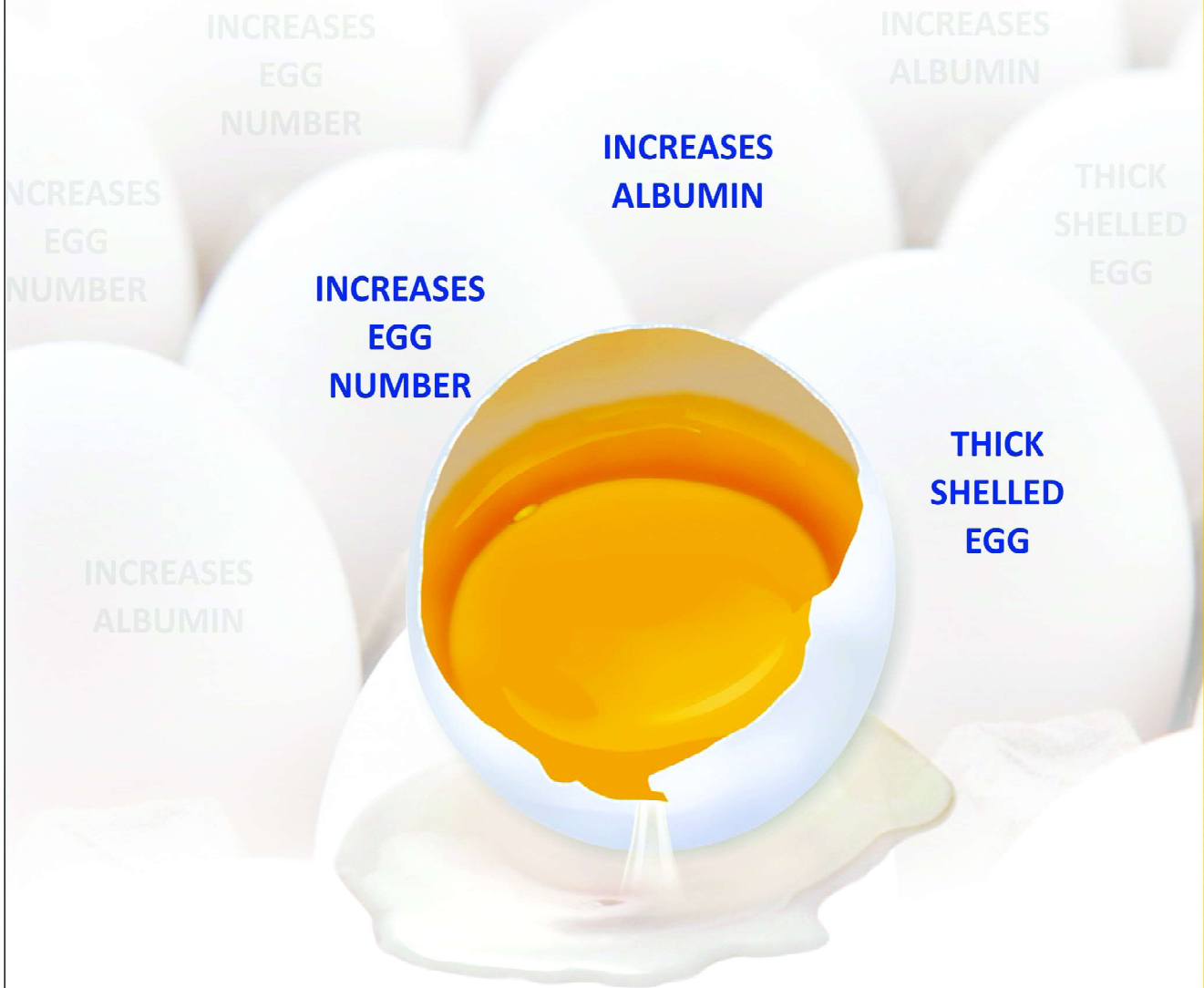
**ZOETIS INDIA LTD** : 31, 3<sup>RD</sup> FLOOR | KALPATRU SYNERGY | OPP. GRAND HYATT, SANTACRUZ (EAST), MUMBAI- 400 055;  
OFFICE: 022 66513800; FAX: 022 266513950 | VISIT US: ZOETIS.COM





# Laygrow

The Egg Production Augmenter



we are there when you need the most

## OPTIMIZED EGG PRODUCTION

*Regenerating solutions for your changing needs...*

**Regen Biocorps AHI (P) Ltd.**

3rd Floor, D&E 301, Ananta Trendz, Near Narayan Garden Society  
Gotri, Vadodara – 390 021. Gujarat (India)

Website: [www.regenbiocorps.com](http://www.regenbiocorps.com)

An ISO 9001 : 2008 Certified Co.

# Immon & CRDX-IR

Protect your Birds from  
Respiratory Viral Infection and Immunosuppression



## Immon

A multi-nutrient formula to improve Innate and Adaptive Immunity even during diseases.

## CRDX-IR

A dual acting respiratory stress reliever works at very low dose.

To know more about Total Prevention Program. Write to: [query@regenbiocorps.com](mailto:query@regenbiocorps.com)



*Regenerating solutions for your changing needs...*

**Regen Biocorps AHI (P) Ltd.**

3rd Floor, D&E 301, Ananta Trendz, Near Narayan Garden  
Gotri, Vadodara – 390 021. Gujarat (India)

Website: [www.regenbiocorps.com](http://www.regenbiocorps.com)

An ISO 9001 : 2008 Certified Co.

We are there when you need the most

**INDIAN HERBS ROBUST AND COMPLETE RANGE OF PRODUCTS FOR POTENTIATING ANTIOXIDANT DEFENSE, STRESS TOLERANCE AND IMMUNOCOMPETENCE IN BIRDS**

**HeatBeat**

Power-packed with natural heat stable vit. C, organic chromium complex and mint

*Replenishing & Revitalizing Formula*

**ELECTRO-C**

Water soluble concentrate power-packed with electrolytes, natural vitamin C & energy

**HERBAL C**

Natural heat stable vitamin C and universal anti-oxidant

*With Triple Advantage*

**OSMO C**

Natural, heat stable vitamin C with betaine and Phyto-antioxidants

**Heat stability**  
Naturally conjugated phytoconstituents remains highly heat stable at pelletization (upto 130°C)

**Universal antioxidant**  
Antioxidant activity in both lipid and is aqueous phase and is higher than synthetic coated vitamin C

**Adaptogen**  
Helps attaining adaptive homeostasis

**Outstanding bioavailability**  
Provides self replicating, sustained bio-activity and gets fully absorbed in biological system



Heat and oxidative stress

Cellular oxidation

Free radical generation

Cell death and mortality

Immuno-suppression

Increase respiration, alkalosis and compensatory HCO<sub>3</sub> loss

**Extreme heat stress adversely affects production, performance and farm profitability**

Modern high performing poultry birds face difficulties in coping with heat and other stressors resulting into thermo-intolerance, reduced feed intake, poor growth, FCR, poor shell quality, reduced egg production, hatchability, increased morbidity and mortality. There is a need to strengthen antioxidant defense of birds by supplementing potential antioxidant.

**INDIAN HERBS SPECIALITIES Pvt. Ltd.**

C-215, 2nd Floor, Elante Offices, Plot No. 178-178A, Industrial & Business Park  
Phase - 1, CHANDIGARH (U.T.) - 160002, Ph. No. 0172 - 5011470, 4181014, +91 9023247217  
E-mail : ihsp@indianherbs.org, Website: www.indianherbs.org



# EVALON<sup>®</sup>

With HIPRAMUNE<sup>®</sup> T

Live attenuated vaccine  
against avian coccidiosis

---

## A LIFETIME OF IMMUNITY

---

Powered by  
**SMART**  
VACCINATION



The Reference  
in Prevention  
for Animal Health

**HIPRA INDIA**  
#209, 2nd Floor Platinum Square (next to Hyatt Regency Hotel), Vascon Engineers Ltd., S.  
No. 30/3A, Viman Nagar Pune 411014, Maharashtra India  
Tel.: (+91) 20 6768 2300 · Fax: (+91) 20 6768 2302 · india@hipra.com · www.hipra.com



**IF GUT HEALTH  
IS YOUR  
CONCERN!**

**ADD**

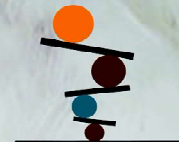
**3 MORE  
FEATHERS  
TO YOUR BIRD**



**INTEGRITY**



**PROTECTION**



**BALANCE**

**CosBac™**  
Total Gut Health Solution

**Multi-Species | Prebiotic Mix**

+91 20 2729 1020 / 21

info@abtl.in

www.abtlenzymes.com

**ABTL**

## GLIMPSE FROM THE 9<sup>TH</sup> KOLKATA INTERNATIONAL POULTRY FAIR 2023



# ABTL

## EVERLASTING MEMORIES FROM 9<sup>TH</sup> KOLKATA INTERNATIONAL POULTRY FAIR 2023



# ABTL

## EVERLASTING MEMORIES FROM 9<sup>TH</sup> 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.



ABTL

Indications are extremely positive, only persuasive efforts can drive the social structure favourably towards poultry industry. States like J&K, Uttarakhand, Chhattisgarh, Telangana, Orissa, 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 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.

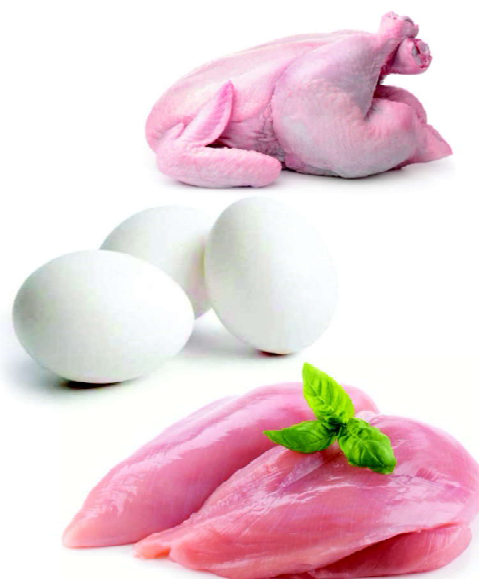
The challenging points are, how do we motivate and educate the transition with much categorized response.

#### 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.



**ABTL**



**Advanced Bio-Agro Tech Limited (ABTL)**

**Corporate Office:**

No. 201, 2<sup>nd</sup> Floor, S.N.6/1/1,  
Deron Hills, Baner Road,  
Pune 411045 (India)

✉ info@abtl.in

☎ +91 20 2729 1020 / 21

🌐 www.abtlenzymes.com

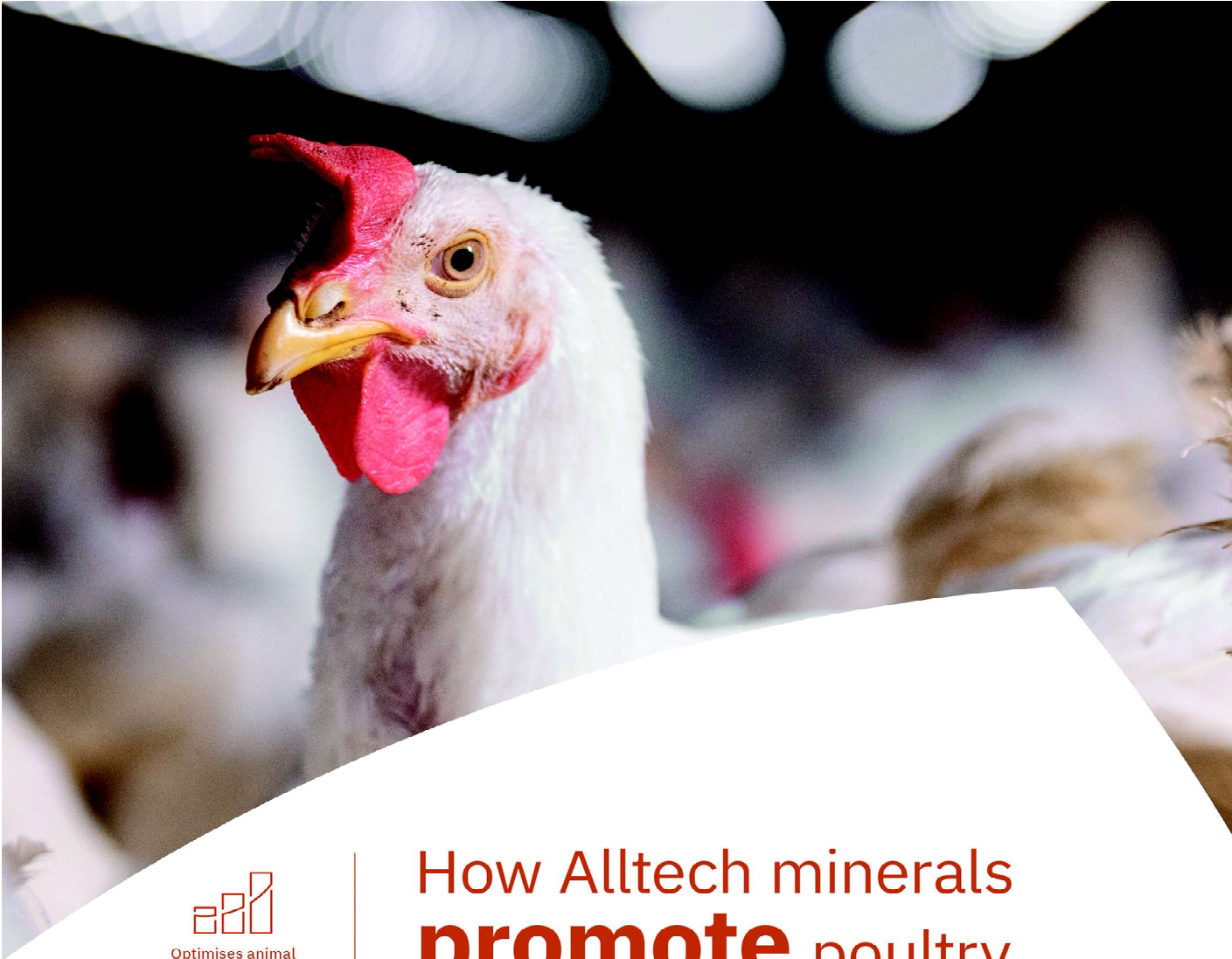
CIN: U24100MH2004PLC149464

**Registered Office:**

5<sup>th</sup> Floor Sun Magnetica,  
LIC Service Road, Louiswadi,  
Thane (W) 400604 (India)







Optimises animal performance



Supports animal immunity



Optimize weight gain and feather quality



Contribute to the nutritional value of meat



Improve egg shell quality and bone formation

## How Alltech minerals **promote** poultry efficiency

The Alltech Mineral Management program has proven that **Bioplex®** trace minerals can be included at significantly lower levels than inorganic trace mineral sources while simultaneously promoting animal performance, optimizing mineral utilization and reducing environmental impact. We call this innovation **Total Replacement Technology™ (TRT)**.

Alltech Biotechnology Pvt. Ltd.,  
No.3, 6th Cross, HAL-II Stage, Kodihalli,  
Off: Old Airport Road, Bangalore – 560 038



**PATENTED**

# CHROMIATE-C

## CHROMIUM PROPIONATE

(US Patent No: 9,663,438)

## With Vitamin C And Black Cumin Powder



### Stress Buster 365 days

#### Features & Benefits :

- **First in class unique formulation** in India
- **Chromium content 4000 mg** of propionate per kg & 800 mg as per inclusion dose
- **Coated Vitamin C content 125000 mg** per kg & 25000 mg as per inclusion dose
- **Vitamin C** supplementation complements chromium uptake & stress management
- Added **Black Cumin** seed powder support as immunity booster
- Using **Zeolyte** as a best carrier instead of calcium carbonate
- Chromiate C is Next level **Stress Reliever for all season**
- **Optimum RBV** value (Relative Biological Value) helps for good bioavailability
- **Support** Ovary regeneration and brain development (CNS)
- **Maintaining Appropriate levels of Chromiate C** in feed (800 ppm) shows significant growth in performances
- Original Product Pack from USA Manufacturing unit.
- **Value to money**

#### Guaranteed Analysis:

Chromium Propionate 4000 mg per kg  
Coated Vitamin C 1,25,000 mg per kg

#### Ingredients:

Chromium Propionate, Coated Vitamin C, Black Cumin Powder and Zeolyte

#### Feeding Directions:

**Poultry** : 200 grams per ton of feed  
**Dairy** : 300 grams per ton of feed  
Each dose (200 grams) of Chromiate provides 800 mg of Chromium Propionate and 25,000 mg of Coated Vitamin C.

#### Packing:

25 Kg Bag



Manufactured By:

**NuTech Biosciences, Inc.**  
537, Fitch Street, Oneida, New York, USA  
13421315-505-6500  
www.nutechbiosciences.com



Marketed By:

**Bhavana NutriBio Sciences**  
E.7, 2nd Floor, Above Mahavir Motors,  
Opp. Gate No.1, Market Yard,  
Gultekadi, Pune. 411037, India.  
[www.bhuvanans.com](http://www.bhuvanans.com)  
bhuvananservices@gmail.com  
services@bhuvanans.com  
+91 8975590191 (Service Manager)

Contact Us :- Dr Santosh Ire : 9850979652 & Dr Manoj Sarma : 9396686500

# ProAct 360™

A complete perspective. Perfected for Progress.

What if a new perspective on protease could change your poultry business for the better?

## High Nutritional & Health Performance

Improving protein digestibility and gastrointestinal integrity



## Sustainable Business contribution

Improved performance for lower environmental impact and better animal welfare



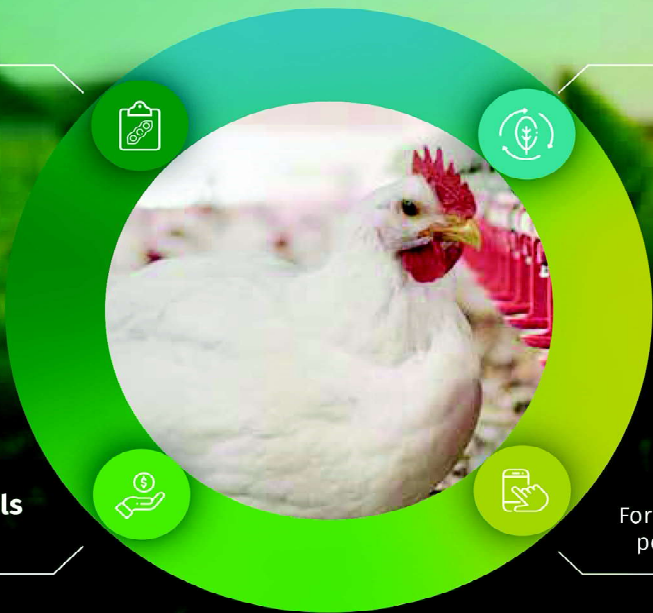
## New Commercial models

Affordable inclusion costs and improved ROI



## End-to-end digital services

For maximum convenience and peace of mind through better decision making



A product that goes beyond the parameters of protease, ProAct 360™ provides a complete solution with the potential to grow your business further. Proven to increase protein digestibility and gastrointestinal integrity in broilers, ProAct 360™ promotes better animal health and supports more sustainable production. A catalyst for positive change, this results in reduced feed costs and increased return on investment. For longer term planning, we provide interconnected digital services that allow you to reach your targets by supporting better decision-making.

A 360 degree perspective like never before. ProAct 360™ is the new market-standard in Feed Protease Technology.

Discover all product benefits online or speak to your DSM Sales Representative.

*If not us, who? If not now, when?*  
**WE MAKE IT POSSIBLE**

## ANIMAL NUTRITION AND HEALTH

ESSENTIAL PRODUCTS

PERFORMANCE SOLUTIONS + BIOMIN®

PRECISION SERVICES



Uncover the true potential of your feed . . .

# MAXIZYME EX

Multi-enzyme Formulation Enriched with Probiotics



## Maximizing Nutrition with flexible feed formulation



Thermal & Gastric  
stability



Enhanced gut integrity  
& health



Standardized optimum  
CP & ME replacement



Improved performance  
& economics



Maximizes fiber  
hydrolysis & nutrition



Improved carcass  
yield



### ROSSARI BIOTECH LIMITED

(An ISO 9001:2015 & 14001:2015 Certified Company)  
201 A - B, 2nd Floor, Akruti Corporate Park, L.B.S Marg, Next to GE Gardens,  
Kanjurmarg (W) Mumbai - 400078, India.

+91 22 6123 3800

info@rossari.com

www.rossari.com



## **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.

One of India's top producers of enzymes and specialty chemicals, Rossari Biotech Limited has expanded our animal health and nutrition sector globally. In the B2B and B2C animal nutrition industries, Rossari -AHN is recognized as one of the reliable and innovative manufacturers of feed additives due to our key competencies in the production of enzymes, probiotics, and organic acids

Regards,

**Dr. Shambhavi**

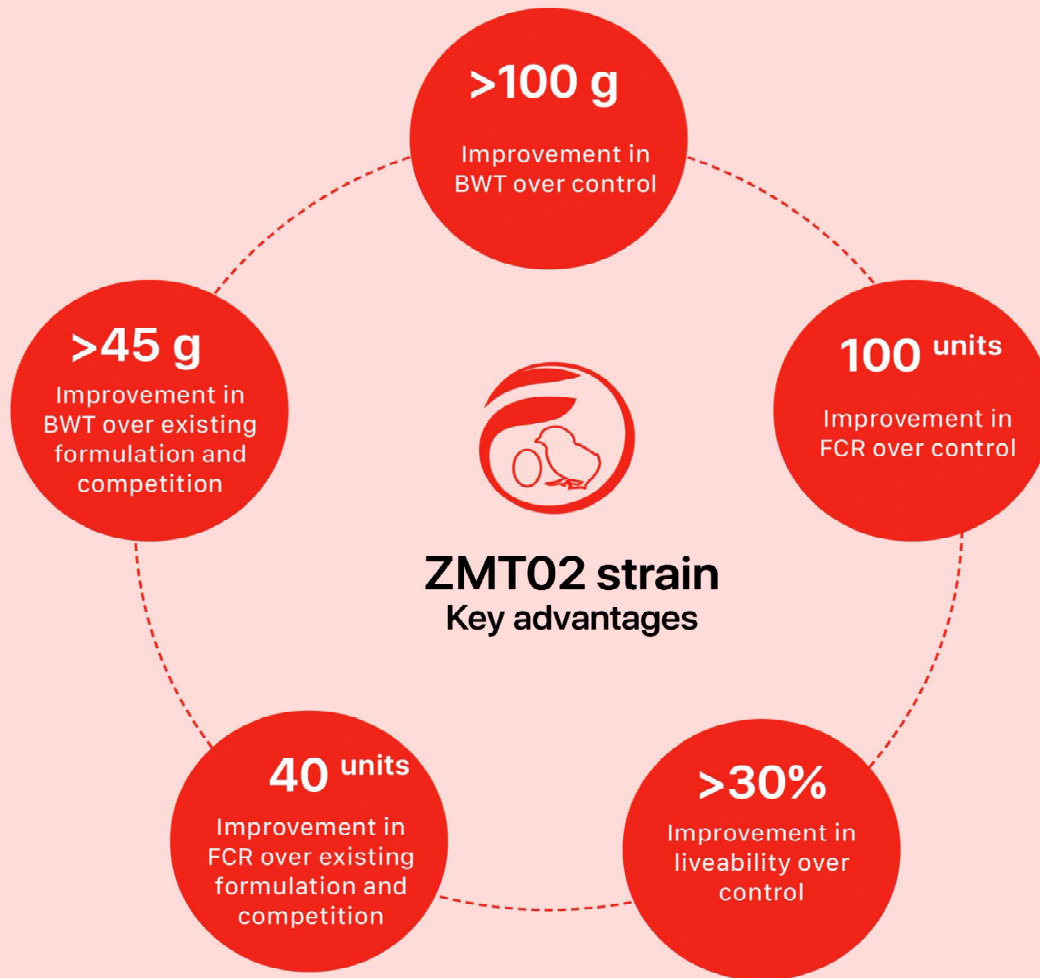
Email id - [shambhavi.mishra@rossari.com](mailto:shambhavi.mishra@rossari.com)

Contact no. - +91 8591927978





## The powerful probiotic strain screened and isolated from the chicken gut



THE KEY TO TOTAL GUT INTEGRITY™  
**Improval BFS**

**Improval MS**

## The key to total gut integrity

Zenex AH was formerly Zydus AH

# AMONEX<sup>®</sup>

The Broad-Spectrum and Long Acting Mold Inhibitor for Poultry Feeds



## Benefits

- Inhibits a wide range of molds
- Prolongs shelf-life of feeds and grains
- Preserves nutritional quality of feeds and grains
- Minimizes the risk of mycotoxin production in feeds and grains during storage
- Increases flexibility in moisture management of feeds and grains



Amonex<sup>®</sup> Dry | Amonex<sup>®</sup> Active Liquid



Bentoli Inc.,  
Elgin, Texas, USA  
India Customer Care: +91 7397785002  
Email: askthefeedoctor@bentoli.com  
www.bentoli.com

Visit us at:





IS PROUD TO PRESENT  
**BENTOLI**  
**AGRINUTRITION INDIA**  
 AS ONE OF THE  
 TOP 10  
**ANIMAL HEALTH**  
**COMPANIES**  
 2022



# WE ARE HIRING

www.bentoli.com | hr-india@bentoli.com

Would you like to grow professionally! Then Bentoli® would be your preferred platform to boost your career. We, Bentolians, are looking for young, dynamic, and smart persons for selling animal feed additives.

**POSITION :** National Sales Manager  
**LOCATION :** Mumbai, India  
**QUALIFICATION & EXPERIENCE :** Graduate in any discipline preferably with Major in Bio-Science, Veterinary Degree will be of added advantage. MBA is must.

## REPSONSIBILITIES:

- Lead and motivate nationwide sales team members to achieve sales budget.
- Develop and execute strategies to drive business in new and existing markets.
- Network with potential and existing customers, business partners in an effort to promote all the products.
- Negotiate and close agreements with large customers.
- Monitor and analyze performance metrics and suggest improvements.
- Presentation skill is a must.
- Prepare monthly, quarterly and annual sales forecasts.
- Perform research and identify new potential customers and new market opportunities.
- Write and submit a monthly Sales report indicating sales volume results, margins, and expenses as compared to budget and the previous year.
- Determine and manage specific marketing activities, including trade shows, print advertising and collateral advertising materials.
- Continually generate new customers in targeted markets to assure the stability and growth of the company's sales efforts.
- Staff the Sales Department with sufficient highly effective and professional associates according to approved budgets and plans.
- Travel with each sales associate to visit customers at least 50% of the time.
- Assist the Sales team with all collection efforts for accounts receivable.
- Ensure Customer Service Satisfaction in the aspect of company sales goals and plans.
- Assure that all sales advertising and marketing expenses are completed as budgeted professionally.

## QUALITIES FOR THE POSITION:

- Have experience in handling team.
- A minimum requirement is ten years' worth of experience. Having at least five years of team handling experience.
- Must be organized, analytical and detail-oriented.
- Good verbal and written communication skills; ability to relate and interact with a variety of audiences.
- Skilled at planning budget, managing the performance of personnel using the Performance Management System.
- Negotiating skills to create the most profitable deals.
- Strong managerial abilities to guide people across multiple geographies.

## About Bentoli®

Bentoli® is dedicated in providing our customers with the highest quality products, services and consultative solutions that will tangibly improve their operational and financial performance.

We manufacture preservatives, processing and nutritional additives for aqua and animal feeds. We employ a comprehensive and methodical approach that enables us to develop optimal solutions that help feed manufacturers and farmers in the areas of preservation and processing and nutrition.

Bentoli® works closely with feed manufacturers and livestock operators to thoroughly understand their specific needs. Through a "Total Quality Model", we use a consultative, collaborative approach to identify problems, develop solutions and continuously monitor performance to achieve desired results for our customers.

Bentoli® maintains development and manufacturing facilities in the United States and Asia, serving our customer through an extensive network of sales offices and valued distributor partners throughout the globe.

# Ensured Protection from Coccidiosis with Advanced Formulae

## CocciCare CocciCare-L CocciCare-M

Monensin + Nicarbazin + Vitamin K 3 + Curcumin extract

Lasalocid Sodium + Vitamin K 3 + Curcumin extract

Maduramicin + Nicarbazin + Vitamin K 3 + Curcumin extract



# Feedacid

Acidifier, Mould Inhibitor & Antifungal Poultry Feed Additive

The Best Combination of Organic & Inorganic Acids, Allicin, Shatavari & Thymol



**GLOCREST**  
Pharmaceutical Pvt. Ltd

Off.: 2018, Solus Hiranandani Business Park,  
Hiranandani Estate, Thane (W) - 400 607.  
Maharashtra, India.

www.glocrestpharma.com  
+91 22-46007565  
info@glocrestpharma.com

## Curcuminates - the new innovation in the organic trace mineral schelatioclubbed with Glycinates by

# Chelomix



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

### Glycinates:

Smallest complex with highest mineral content - trace elements are essential nutrients required by all animals. They supply for a variety of important physiological functions. However, when Glycinates are being clubbed with Curcumin extract as an

additional chelation, minerals become completely bioavailable.

The Indian spice turmeric (*Curcuma Longa*) is used in food processing, fabric dyeing and cosmetics, and has also been used as a medical herb in Ayurvedic medicine for centuries. **Yellow pigment curcumin (abbreviated as curH), the major component of curcuminoids isolated from turmeric powder, is known to have a broad spectrum of medicinal benefits.**

Using these forms of highly bioavailable curcumin now enable a broad spectrum of appropriate studies to be conducted. This review discusses the formulations designed to enhance bioavailability, metabolism of curcumin, relationships between solubility and particle size relative to bioavailability.

It has excellent role in controlling Coccidiosis with curcumin extract alone in chicken and when clubbed with ionophores and chemical combination, it can ensure 100% protection from Coccidiosis. **'One of the natural compounds is curcumin, the extract from herbal plant *Curcuma longa*, known for its antioxidant & antimicrobial properties which may be an effective in reducing coccidia infection in poultry'**

Curcumin improved nutrient metabolism by enhancing the production of bile acids and activity of gastric enzymes to accelerate digestion and absorption. Furthermore, it has been shown that curcumin has the potential



**Dr Kiran Balikai**  
Technical Manager  
Krishna Farm

to destroy sporozoites of *E. tenella* and reduce the oocyst shedding and gut lesions. Curcumin is also proven to be protective to maintain gut integrity by boosting humoral immunity of the host.

Among different herbs and supplements, turmeric (*Curcuma longa* L.), which contains bioactive secondary metabolites as curcuminoids, has been successfully used as a suitable feed supplement for poultry. It induces a wide range of positive actions in birds, namely: 1. improvement of several hematological and biochemical indicators, 2. increase of antibody titers after vaccination (e.g., against Newcastle disease), 3. diminishment of heat stress by different mechanisms, 4. prevention from harmful effects of aflatoxins consumed together with diet, 5. increase of antioxidant activity of several organs (e.g., spleen), 6. decrease in some potentially pathogenic bacteria counts, i.e. *Escherichia coli*, in the ileal content of the farmed laying hens.

### Chelomix

**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.

## Control of Early Chick Mortality & Stress Management during summer with GROXX



**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 GROXX**

<b>COMPOSITION :</b>	
<b>Each Kg contains</b>	
Vitamin A	30,00,000 IU
Vitamin D3	6,00,000 IU
Vitamin E	1,200 IU
Vitamin C	5,00,000 IU
Vitamin K3	1.2 g
Vitamin B2	1 g
Vitamin B3	14 g
Vitamin B5	4 g
Vitamin B6	600 mg
Vitamin B12	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 <sup>9</sup> CFU
Saccharomyces boulardii	10 x 10 <sup>9</sup> CFU
Bacillus subtilis	10 x 10 <sup>9</sup> 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 **GROXX** with above composition

**GROXX** is complete product to address all the stress factors and help to control early chick mortality. During summer it could be a 'Ramban' solution. PI 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 nut shell, **GROXX** 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*



**S.S. Associates**

**SHR PACKAGING**



**D.No.1-2-405, Gaganmahal, Domalguda, Hyderabad - 500029**

**Cell: 78931 40260**



**EggMaster**  
100% Farm Fresh



## WHY CHOOSE US

### ○ HEALTHY & HYGIENE

We produce eggs in its most higenic way and meet international safety norms.

### ○ AT YOUR FINGER TIPS

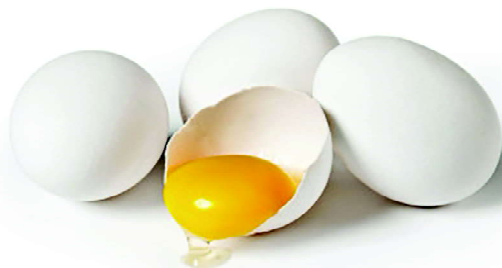
It is easily available in the market. You can buy it from your nearby grocery and super market

### ○ WITH THE BEST QUALITY

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

## OUR PRODUCTS

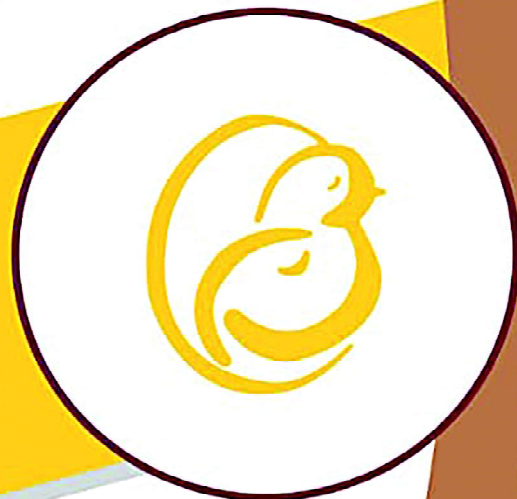
- White Egg
- Brown Egg
- Country Egg
- Duck Egg
- Quail eggs



## EggMaster Agro Products

Regd. Office : 16/A, Dr. Biresh Guha Street  
Park Circus, Kolkata 700 017  
West Bengal, India.

+91 98 315 07808  
+91 98 310 42545  
[www.eggmaster.in](http://www.eggmaster.in)



**High Quality Cobb 430Y  
Broiler Hatching Eggs**

Contact...

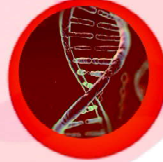
**9831042545**

**EggMaster Poultry Breeders**

Regd Office: No 17/C, 16-2-229 Jamuna Tower,  
Malakpet, Hyderabad - 500036, Telangana,  
Email : [eggmasterbreeders@gmail.com](mailto:eggmasterbreeders@gmail.com)



Biotechnology for Animal Health™



## Rediscovering the power of nature

Visit us @



**VIV ASIA**

March 08 - 10 2023, Thailand.  
Stall # 3763, Hall 2.



INTERNATIONAL  
POULTRY SHOW  
& SEMINAR 2023  
BANGLADESH **iccb**

March 16 - 18 2023, Bangladesh.  
Stall # 2 MP, Hall 1.

[www.zeusbiotech.com](http://www.zeusbiotech.com)





# অসমত পোল্ট্ৰী বা বাণিজ্যপক্ষী পালন ব্যৱসায়

ড° মৃদুল কুমাৰ বৰা

পৰামৰ্শদাতা

সাই বিজয়লক্ষ্মী এণ্টাৰপ্ৰাইজ

গুৱাহাটী

৯৮৬৪৮২৪৭০০

হাঁহ-কুকুৰা পালন অসমীয়া চহা জীৱনৰ এক অবিচ্ছেদ্য অংগ। পৰম্পৰাগতভাৱেই অসমৰ সকলো শ্ৰেণীৰ লোকেই ঠাঁহ 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 ভ্ৰমণ বিলাস বাঢ়ি আহিল আৰু সমান্তৰালকৈ মাছ-মাংসৰ চাহিদাও বাঢ়িব ধৰিলে। এটা সময়ত ইয়াৰ সম্পূৰ্ণ বাণিজ্যিকৰণ হ'ল। আজি অসমৰ চুকে কোণে ব্ৰয়লাৰ কুকুৰাৰ পাম এক সুলভ আৰু পৰিচিত দৃশ্য। প্ৰায় আশীৰ দশকৰপৰাই অসমত ব্যৱসায়িকভাৱে ব্ৰয়লাৰ কুকুৰা পালন আৰম্ভ হৈছিল যদিও ই প্ৰসাৰ লাভ কৰে প্ৰায় ১৯৯৫-৯৬চন মানৰপৰাহে। তাৰ পিছৰ এটা দশক অসমত ব্যক্তিগত উদ্যোগত অসংগঠিত ৰূপতেই এই ব্যৱসায়ৰ অভাৱনীয় উত্তৰণ ঘটে। ২০০৬ চনত ব্ৰয়লাৰ 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 ব্ৰয়লাৰ পালন ব্যৱসায় কোম্পানীৰ হাতত। আজিও ইয়াৰ জৰিয়তে অসমৰ প্ৰায় একলাখ শিক্ষিত নিবনুৱাই সংস্থাপন পাইছে। দেশৰ অৰ্থনীতিত আৰু কৰ্মসংস্থাপনৰ দিশত খেতিৰ পিছতে কুকুৰা পালনেই সৰ্বাধিক অৰিহণা যোগায়। কিন্তু বিভিন্ন সময়ত বিভিন্ন কাৰণত ইয়াত বাধা আহি পৰে, কেতিয়াবা সমাজৰ ফালৰপৰা যদি কেতিয়াবা আকৌ কিছুমান অপপ্ৰচাৰৰ বাবে।

## কুকুৰা পালন আৰু অসম

অসমৰ বাবে ব্ৰয়লাৰ পালনৰ বুৰঞ্জী বহুত পুৰণি নহয়। প্ৰায় ১৯৯০-৯১ চনলৈকে অসমত অতি কম সংখ্যক ব্ৰয়লাৰ 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 প্ৰতিসপ্তাহত অসমত ২০০০০ মান পোৱালী বিক্ৰী হৈছিল। গুৱাহাটীৰপৰাই সমগ্ৰ অসমলৈ কুকুৰা পোৱালী যোগান ধৰা হৈছিল। 'আৰামবাগ হেচ্ছাৰী প্ৰাঃ লিঃ' নামৰ কোম্পানীটো এইক্ষেত্ৰত অগ্ৰণী আছিল। অসমৰ প্ৰথমখন থলুৱা ব্ৰয়লাৰ প্ৰজনন পাম গঢ়ি তুলিছিল 'মানস হেচ্ছাৰী' 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। খানাপাৰাত গঢ়ি তোলা হৈছিল কেন্দ্ৰীয় কুকুৰা পোৱালী পালন পাম (CCR Farm)। কিন্তু ব্ৰয়লাৰ পালনৰ বাবে তেনে কোনো

চৰকাৰী উদ্যোগ নাছিল। ১৯৯৬ চনত দিল্লীত অনুষ্ঠিত World Poultry Congressৰ প্ৰভাৱ কিছু পৰিমাণে অসমতো পৰিল। সেই অনুস্থানলৈ পোল্ট্ৰী ব্যৱসায়ৰ সৈতে জড়িত বহুকেইজন ব্যৱসায়ীৰ লগতে বহুকেইজন পশুচিকিৎসা বিজ্ঞানৰ ছাত্ৰ অসমৰপৰাও গৈছিল। সেই অনুস্থানে অসমৰ অংশগ্ৰহণকাৰীসকলৰ মনত উৎসাহ বঢ়াই তোলে। ব্যৱসায়ীসকলে অসমলৈ আহি ন-উদ্যমেৰে লাগি পৰে। বহুকেইজন অসমীয়া পশুচিকিৎসা স্নাতকে বিভিন্ন কোম্পানীত নিয়োগৰ সুবিধাও লাভ কৰে। পৰবৰ্তী পৰ্যায়ত তেওঁলোকৰ বহুকেইজনে চাকৰি ত্যাগ কৰি আহি নিজৰ অভিজ্ঞতাখিনি বাস্তৱ ব্যৱসায়ত লগাবলৈ তৎপৰ হয়। তাৰ ফলশ্ৰুতিতেই প্ৰায় ২০০০ চনলৈ কণী উৎপাদনৰ লগতে ব্ৰয়লাৰ পালনো অসমৰ বহুলোকৰ বাবে স্বনিয়োজনৰ ক্ষেত্ৰ হৈ পৰে। সেই সময়ত ৬৭ %ৰাজসাহায্যযুক্ত প্ৰধানমন্ত্ৰী ৰোজগাৰ যোজনাৰ সহজলভ্য ঋণৰ ব্যৱস্থাইও সবু সবু পামবোৰ গঢ়ি উঠাত ষষ্ঠে সহায় কৰিছিল।

### অসমত ব্ৰয়লাৰ পালন

অসমত ব্ৰয়লাৰ পালন আজিৰদৰে ইমান সহজ নাছিল। ব্ৰয়লাৰ পালন উদ্যোগটোৰ আজিৰ অৱস্থা পাবলৈ বহুতো সবু সবু পালকৰ ঘাম বাহিৰ হৈছিল। সেইসময়ত মানুহে কুকুৰাৰ ইমান ছুড়ি ৭ ওজন প্ৰাপ্তিক সন্দেহৰ চকুৰে চাইছিল। বহুতে ব্ৰয়লাৰ মাংস খাবলৈ ঘিণ কৰিছিল। কিছুমানে ব্ৰয়লাৰ মানেই শগুণ আৰু কুকুৰাৰ সংকৰ বুলি ভাবিছিল। আনহে নালাগে আজিৰ তাৰিখতো বহু লোকে ব্ৰয়লাৰ কুকুৰা শগুণ আৰু কুকুৰাৰ সংকৰণৰ ফল বুলিয়েই ভাবে। মানুহে ৫০টা ব্ৰয়লাৰ কুকুৰা পুহিলেও ডাঙৰ পাম থকা বুলি জাহিৰ কৰিছিল। আনহাতে সেই কুকুৰাবোৰ দুমাহ বয়সত বিক্ৰীযোগ্য হোৱাৰ পিছৰপৰা বিক্ৰী কৰি শেষ কৰালৈকে প্ৰায় এমাহ পৰ্যন্ত লাগিছিল। কেতিয়াবা শেষৰ কুকুৰাবোৰৰ ওজন ৫-৬ কিলোগ্ৰাম হৈছিলগৈ। চলিত শতিকাৰ প্ৰথম দশকৰ প্ৰথমভাগৰপৰাই অৱশ্যে ব্ৰয়লাৰ পালনে এক সুকীয়া গতি লাভ কৰে। তেতিয়ালৈ অসমত প্ৰতিমাহে প্ৰায় ৪লাখ ব্ৰয়লাৰ 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 সক্ষম হয়। পিছলৈ অমৃত ব্ৰীদাৰ্চ আৰু সুগুণা ফুদচ নামৰ কোম্পানী দুটাই চুক্তিভিত্তিক (Contract Broiler Farming) পাম ব্যৱস্থাটো অধিক স্বৰ্দ্ধান্তিত কৰি তোলে। ২০০৬চনৰ আশে পাশে অসমত প্ৰায় ১২-১৬লাখ ব্ৰয়লাৰ কুকুৰা প্ৰতিমাহে পালন কৰা হৈছিল। ২০১৬ চনলৈ এই সংখ্যা প্ৰায় ১৬লাখ প্ৰতি সপ্তাহলৈ বৃদ্ধি পায় অৰ্থাৎ ৭ ব্ৰয়লাৰ উৎপাদন তেতিয়ালৈ প্ৰায় ২০০৬চনৰ তুলনাত ৪গুণ হয়। এইখিনি সময়ত নামনি অসমৰ ব্ৰয়লাৰ উৎপাদনৰ ৮০% ই আহিবলৈ ধৰে চুক্তিভিত্তিক পামৰপৰা। ২০১৭চনত অমৃত ব্ৰীদাৰ্চ নামৰ কোম্পানীটো দেউলীয়া হোৱা বাবে বন্ধ হৈ যায়। তাৰ পিছতেই আন বহুকেইটা কোম্পানী অসমত পাম কৰিবলৈ আহে। ফলশ্ৰুতিত অসমত ব্ৰয়লাৰ উৎপাদনে এক অনন্য মাত্ৰা লাভ কৰে। ২০তম পশুপক্ষীগণনা অনুসৰি অসমত প্ৰায় ৪৬৭লাখ হাঁহ, কুকুৰা বা অন্যান্য পোহনীয়া চৰাই আছে যাৰ সিংহভাগেই নিশ্চয় ব্ৰয়লাৰ কুকুৰা। ২০২০ চনলৈ অসমত অভিলেখ সংখ্যক ব্ৰয়লাৰ পালন হ'বলৈ ধৰে। বজাৰৰ তথ্য অনুসৰি (আমদানিকৃত পোৱালী ফুটোৱা কণীৰ হিচাপ অনুসৰি) ২০২০চনত প্ৰতি সপ্তাহত প্ৰায় ২৫-২৭লাখ ব্ৰয়লাৰ পালন কৰা হৈছিল। যদি পালিবলৈ লোৱা পোৱালীবোৰৰ ১০ % মৰে আৰু জীৱিত কুকুৰাৰ ওজনৰ বিপৰীতে ৬৭% মাংস উৎপাদন হয় তেন্তে অসমত বছৰি ১৫০ হাজাৰ টন চাল নথকা বিশুদ্ধ মাংস উৎপাদন কৰে অৰ্থাৎ দৈনিক ৪০০টন পৰ্যন্ত ব্ৰয়লাৰ মাংস অসমে উৎপাদন কৰে।

### অসমত ব্ৰয়লাৰ ব্যৱসায়ৰ উত্তৰণ

অসমৰ বাবে ব্ৰয়লাৰ পালনৰ ধাৰণাটো যে তুলনামূলকভাবে নতুন তাক আগতেই উল্লেখ কৰা হৈছে। স্বাভাৱিকতেই সাধাৰণ মানুহৰ মনত স্থায়ীভাবে খিতাপি লওঁতে ই সময় ল'ব। আজিও বহুতে বিভিন্ন কাৰণত ব্ৰয়লাৰ কুকুৰাতকৈ খলুৱা কুকুৰাৰ মাংস খোৱা স্বাস্থ্যৰ পক্ষে উপকাৰী বুলি এক ধাৰণা বান্ধি লৈ ফুৰিছে। যিয়েই কি নহওক খলুৱা কুকুৰা বা ব্ৰয়লাৰ দুয়োবিধ মাংসই শৰীৰৰ বাবে প্ৰয়োজনীয় প্ৰোটিনকণ যোগান ধৰিব পাৰে। চুক্তিভিত্তিক পামৰ জৰিয়তে কুকুৰা উৎপাদন 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 সৃষ্টি হ'ল। তেওঁলোকে আকৌ ব্ৰয়লাৰ বিক্ৰীৰ বাবে গাঁৱে-ভূঞে সবু সবু কিছু খুচুৰা বিক্ৰেতাক ব্ৰয়লাৰ বিক্ৰীৰ বাবে উৎসাহিত কৰিব আৰম্ভ কৰিলে। এইদৰে আজি অসমৰ প্ৰতিখন ঠাইতে ব্ৰয়লাৰ 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 ব্ৰয়লাৰ 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 খাব লাগে। সেই হিচাপত অসমত দৈনিক মাংসৰ প্ৰয়োজন হয় প্ৰায় ১০৫৪টন। এই মাংসখিনিৰ সিংহভাগ বৰ্তমান ব্ৰয়লাৰৰ দ্বাৰাই যোগান ধৰা হয় যদিও এক বৃহৎ অংশ আহে গাহৰি, হাঁহ, খলুৱা কুকুৰা, ভেড়া, ছাগলী, গৰু, ম'হ আৰু অতি সামান্য পৰিমাণে আন জন্তু বা চৰাইৰপৰা। অৱশ্যে সকলো মাংস মিলিও ভাৰতীয় চিকিৎসা গৱেষণা পৰিষদৰ অনুমোদিত পৰিমাণ স্পৰ্শ কৰিব পৰা নাই। গাহৰি আৰু ব্ৰয়লাৰ মাংসৰ দাম আন সকলো মাংসতকৈ কম আৰু সহজলভ্য হোৱা বাবে এই দুবিধ মাংসৰেই বজাৰ চাহিদা সৰ্বাধিক। অৱশ্যে ইয়াৰ ভিতৰত বিভিন্ন কাৰণত গাহৰি মাংস বহুতৰ বাবে অস্পৃশ্য (?) হোৱা বাবে ব্ৰয়লাৰ মাংসই এক সুকীয়া স্থান লৈছে। যদি অনুমোদিত পৰিমাণৰ মাংসৰ ৫০ %ও ব্ৰয়লাৰৰপৰা আহে তেন্তে আমাক দৈনিক প্ৰায় ৫২৭টন ব্ৰয়লাৰ মাংসৰ প্ৰয়োজন হয়। কিন্তু সীমিত ক্ৰয় ক্ষমতা তথা আনুষংগিক কাৰণৰ বাবে অসমৰ বজাৰত দৈনিক ব্ৰয়লাৰৰ বিশুদ্ধ মাংস বিক্ৰী হয় মাত্ৰ ২০৬টন মানহে। অৰ্থাৎ বজাৰ হিচাপে অসমত মুঠ জীৱন্ত কুকুৰাৰ ওজন হিচাপে দৈনিক চাহিদা আছে প্ৰায় ৩৫০-৪০০টন। বৰ্তমান সময়ত প্ৰয়োজনীয় সেই পৰিমাণৰ ব্ৰয়লাৰ কুকুৰা উৎপাদন হৈ আছে। এক কথাত ক'বলৈ গ'লে অসমত প্ৰয়োজনীয় ব্ৰয়লাৰ কুকুৰাৰ মাংস অসমতেই উৎপাদন হৈ আছে অৰ্থাৎ ব্ৰয়লাৰ উৎপাদনত অসম এতিয়া স্বাৱলম্বী। তথাপি দৈনিক যথেষ্টসংখ্যক ব্ৰয়লাৰ কুকুৰা অসমলৈ আমদানি হোৱা দেখা যায়। বহু লোকে অভিযোগ কৰে যে বাহিৰৰপৰা হোৱা এই আমদানিৰ বাবেই অসমৰ ব্ৰয়লাৰ কুকুৰাৰ বজাৰখন অস্থিৰ হয়। আনহাতে প্ৰশাসনৰ দৃষ্টিত অসমত চাহিদা অনুপাতে যোগান কম হোৱা বাবেহে বাহিৰৰপৰা এই ব্ৰয়লাৰ কুকুৰাখিনি আনিব লগা হয়। এইখিনিতে উল্লেখ কৰিব পাৰি যে অসমে ব্ৰয়লাৰ কুকুৰা কেৱল অসমৰ বাবেই নহয় আন আন চুবুৰীয়া ৰাজ্যকেইখনকো যোগান ধৰিব লগা হয়। যি পৰিমাণৰ কুকুৰা অসমে চুবুৰীয়া ৰাজ্যকেইখনলৈ ৰপ্তানি কৰে ঠিক সিমান পৰিমাণৰ বা কিছু বেছি বিক্ষিপ্তভাৱে পশ্চিমবংগদৰে ৰাজ্যৰপৰা আমদানি হয়। কিন্তু সেয়া চাহিদাৰ বাবে নহয়, উৎসৰ মূল্যৰ তাৰতম্যৰ বাবেহে।

### কনীৰ বজাৰখন

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

তিনিচুকীয়া আৰু যোৰহাটত কেইখনমান 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 কনীৰ চাহিদা আৰু যোগান সম্পৰ্কেও পাৰিসাংখ্যিক তথ্য যোগাৰ কৰা দুৰূহ। সেই তথ্যবোৰ আজিৰ পৰিপ্ৰেক্ষিতত বহু পৰিমাণে যুগুত কৰা সম্ভৱ হৈ উঠিছে। বজাৰ পৰিসংখ্যা অনুযায়ী অসমলৈ দৈনিক প্ৰায় ৬০লাখৰো অধিক কনী বাহিৰৰপৰা আমদানি হয়। ইয়াৰ বাবে ৰাজ্যখনে প্ৰায় ৭০০কোটি টকা বছৰি বাহিৰলৈ উলিয়াই দিব লগা হয়। সুখৰ কথা যে ইতিমধ্যে কেইবাখনো পাম ৰাজ্যখনত গঢ় লৈ উঠিছে আৰু বহুসংখ্যক লোকে লেয়াৰ পাম কৰাৰ বাবে যো-যা চলাই আছে। অসমস্থিত যদিও বজাৰৰ তথ্য অনুসৰি বৰ্তমান অসমত প্ৰায় ১৫লাখ লেয়াৰ কুকুৰা পালন কৰিব পৰা ক্ষমতাৰ আধুনিক পাম গঢ় লৈ উঠিছে। অৱশ্যে সকলোবোৰ পাম সম্পূৰ্ণ উৎপাদনক্ষম হোৱালৈ আৰু কিছুদিন বাট চাব লাগিব। সংগ্ৰহ কৰা তথ্য অনুসৰি এতিয়ালৈকে এই পামসমূহে দৈনিক প্ৰায় ৮লাখ কনী বজাৰত যোগান ধৰিব পাৰিছে। তথাপি কনীৰ ক্ষেত্ৰত স্বাৱলম্বী হ'বলৈ আমাক আৰু সময় লাগিব। সুখৰ কথা যে বৰ্তমানৰ চৰকাৰে কনী উৎপাদনৰ বিষয়টোক অগ্ৰাধিকাৰ দি অহা ৫বছৰৰ ভিতৰত ৰাজ্যখনক স্বাৱলম্বী কৰি তোলাৰ লক্ষ্য বান্ধি লৈছে।

### কুকুৰা পালনৰ জৰিয়তে নিয়োগ সৃষ্টি

কুকুৰা পালন ব্যৱসায়ত বিভিন্ন দিশ জড়িত হৈ আছে। অসমৰ কুকুৰা পালনেৰে সমৃদ্ধ জিলাকেইখনত 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 প্ৰায়ে নিজা ব্যৱস্থা কৰিছিল। ব্যৱসায়ীসকলৰ বেছিভাগৰেই গুৱাহাটীস্থিত কোনো পোৱালী উৎপাদনকাৰী প্ৰতিস্থান বা হেচ্ছাৰী আৰু দানাৰ পাইকাৰী ব্যৱসায়ীৰ সৈতে যোগাযোগ আছিল। এইদৰে সম্পূৰ্ণ শৃংখলটোত প্ৰায় ২০-২২হাজাৰ পৰিয়াল প্ৰত্যক্ষভাৱে জড়িত হৈ থকাৰ বিপৰীতে আন বহুসংখ্যক 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 ডাঙৰ পামৰ মাধ্যমেৰে উৎপাদন আৰম্ভ কৰিলে। কালক্ৰমত সৰু লৰু পামবোৰ নোহোৱা হৈ পৰিল। ২০০৬চনৰ তুলনাত ২০২২চনত ব্ৰয়লাৰ 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 ব্ৰয়লাৰ পালকে কোম্পানীসমূহৰ সৈতে চুক্তিবদ্ধ হৈ ব্ৰয়লাৰ পাম কৰি থকাৰ বিপৰীতে আন প্ৰায় ১৫০০ ক্ষুদ্ৰ পালকে লেয়াৰকে আদি কৰি আন আন পক্ষী পালনৰ সৈতে জড়িত হৈছে। হেচ্ছাৰীৰপৰা আৰম্ভ কৰি কুকুৰা কাটি বিক্ৰী কৰালৈকে প্ৰত্যক্ষভাৱে এই ব্যৱসায়ৰ সৈতে আন প্ৰায় ১০০০০ লোক জড়িত। অৱশ্যে পৰোক্ষভাৱে আন কেইবাহাজাৰ লোক এই ব্যৱসায়ৰ সৈতে সাঙোৰ খাই আছে। অতি সুখৰ কথাটো হৈছে কুকুৰা পালনৰ ক্ষেত্ৰখনে বিশুদ্ধ কৃষিকাৰ্য্যকো সহায় কৰিছে। খাদ্যৰ বাবে প্ৰয়োজন হোৱা উপাদানসমূহ কৃষিক্ষেত্ৰৰপৰাই আহে। আজি কুকুৰাৰ দানা প্ৰস্তুত কৰিবৰ বাবে প্ৰয়োজন হোৱা প্ৰায় ৮০% মাকৈ ৰাজ্যখনতেই উৎপাদন হোৱাটো শুভ লক্ষণ। প্ৰত্যক্ষ আৰু পৰোক্ষভাৱে কুকুৰা পালনে অসমৰ একলাখৰো অধিক লোকক নিয়োগৰ সুবিধা কৰি দিছে।

**বিশুদ্ধ কৃষি আৰু কৃষি অৰ্থনীতিৰ ওপৰত কুকুৰা পালনৰ প্ৰভাৱ**

পশুপালন আৰু কৃষি এটা আনটোৰ সৈতে পোনপটীয়াকৈ যুক্ত। বাণিজ্যিকৰণৰ জৰিয়তে বিজ্ঞানসন্মত পশুপালনৰ গুৰুত্ব বাঢ়িল, লগে লগে পালকসকলো পশু পৰিপুষ্টিৰ প্ৰতি অধিক সচেতন হৈছে। সুস্বাদু আহাৰৰ প্ৰতি সচেতনতাই বিশুদ্ধ কৃষি প্ৰক্ৰিয়াকো এখোপ আগুৱাই লৈ যোৱাত সহায়ক হৈছে। অসমৰ ৪৬৭কোটি কুকুৰাক সুস্বাদু আহাৰ দিবৰ বাবে কেইবাশতন উপাদান প্ৰয়োজন। এই উপাদানসমূহৰ সিংহভাগেই গোমধান আৰু চয়াবিনৰ খলিহে। সুখৰ বিষয় যে অসমত পশুখাদ্য আৰু কুকুৰাৰ দানাৰ বাবে প্ৰয়োজন হোৱা গোমধানৰ অন্ততঃ শতকৰা ৭০ভাগ ৰাজ্যখনতে উৎপাদিত। ইয়াৰদ্বাৰা ৰাজ্যখনৰ কৃষি অৰ্থনীতিয়ে এক নতুন মাত্ৰা লাভ কৰিছে। আশা কৰা যায় যে পশুপালন নিৰ্ভৰ কৃষিখণ্ডইও নিবনুৱা সমস্যাৰ সমাধানত এক গুৰুত্বপূৰ্ণ ভূমিকা পালন কৰিব।

অতি সুখৰ কথা যে চৰকাৰে কণী উৎপাদনৰ বিষয়টো গুৰুত্বসহকাৰে লৈছে। কণী উৎপাদনক উৎসাহিত কৰিবলৈ পুঁজিৰ আৱণ্টন দিয়া বুলি জানিব পৰা হৈছে। ই ৰাজ্যখনলৈ আশাৰ বতৰা কঢ়িয়াই আনিছে। চৰকাৰৰ উদ্দেশ্য সফল কৰিবলৈ পালকসকলে কম খৰছত সুস্বাদু খাদ্য পোৱাটো অত্যন্ত জৰুৰী। সেয়ে এই দিশটোৰ প্ৰতিও চৰকাৰ তথা কৃষি বিভাগ সচেতন হওক।

অৰ্থ শোগানৰ দিশত বেংকসূহৰ কৰণীয় যথেষ্ট আছে। বেংকসূহে ঋণ প্ৰদান প্ৰক্ৰিয়াক স্বচ্ছ আৰু শিথিল কৰা উচিত। বহুসময়ত উপযুক্ত প্ৰাৰ্থীয়ে ঋণ পাব নোৱাৰা বাবে পামসমূহ গঢ় লৈ উঠিব নোৱাৰে। গতিকে ৰাজ্যখনৰ পৰিস্থিতিৰ লগত খাপ 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 মুনাফা আশা কৰাৰ বিপৰীতে গ্ৰাহকে সদায় কম মূল্যত উপলব্ধ হোৱাটো বিচাৰে। আনহাতে বজাৰখন সুচল হোৱাৰ স্বার্থত এচাম মধ্যভোগীও জড়িত হৈ আছে। তেওঁলোকেও মুনাফা লাভৰ আশাতেই ব্যৱসায়ত বিনিয়োগ কৰে। কিন্তু কেতিয়াবা কোনো এক পক্ষৰ বল বাঢ়ি গ'লেই বজাৰখন অস্থিৰ হৈ পৰে। সেয়া যাতে নহয় তাৰ বাবে সকলো সচেতন হোৱা উচিত।

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

### সামৰণিতঃ

অসম বা আমাৰ চুবুৰীয়া ৰাজ্যকেইখন প্ৰায় সম্পূৰ্ণই আমিষাহাৰী লোকৰ বসতি। তেনেস্থলত 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 ব্ৰয়লাৰ মাংসৰ উৎপাদন পৰ্যাপ্ত যদিও সময়ৰ লগে লগে চাহিদাও বৃদ্ধি পাব। বিশেষভাৱে কোভিডৰ পিছৰপৰা পৰ্যটন উদ্যোগটোৱে দ্ৰুত গতিত বিকাশ লাভ কৰা দেখা গৈছে। পৰ্যটন উদ্যোগৰ বিকাশৰ লগে লগে কণী আৰু ব্ৰয়লাৰ মাংসৰ চাহিদা সমানুপাতিক হাৰত বৃদ্ধিত সহায় কৰিব। তদুপৰি মানুহৰ স্বাস্থ্য সচেতনতাৰ বাবেও কণী আৰু মাংস দুয়োবিধৰে চাহিদা বৃদ্ধি পাব ধৰিছে। তেনে পৰিপ্ৰেক্ষিতত উদ্যোগটোক সবল কৰি তোলাত সকলোৱে দায়িত্বসহকাৰে আগবঢ়া উচিত।

# PERFORMINS

High Performance  
Metal Glycinates

**COPPER**  
24%<sup>METAL</sup><sub>CONTENT</sub>

**IRON**  
21%<sup>METAL</sup><sub>CONTENT</sub>

**ZINC**  
26%<sup>METAL</sup><sub>CONTENT</sub>

**MANGANESE**  
21%<sup>METAL</sup><sub>CONTENT</sub>

**INDIVIDUAL METAL GLYCINATES**  
AVAILABLE IN 25 KG HDPE PACKS



**Avitech**<sup>®</sup>  
Knowledge | Nutrition | Innovation

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



Avitech Nutrition participated at the 9th KIPF Exhibition held between 9<sup>th</sup> - 11<sup>th</sup> 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 (plant based Choline), GenoLiv (plant based

Hepatostimulant) and Green C (plant based 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.

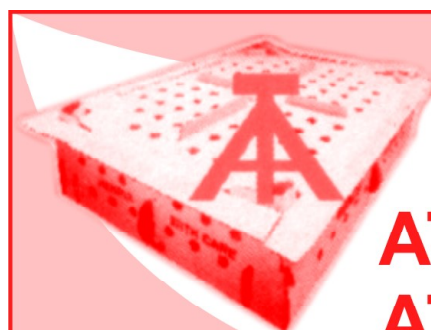
For further technical or trade related enquiries contact

### Avitech Nutrition

GP-37, HSIIDC Udyog Vihar, Sector-18,  
Gurgaon-122015, Haryana (India)

E-mail: [info@avitechnutrition.com](mailto:info@avitechnutrition.com)

Website: [www.avitechnutrition.com](http://www.avitechnutrition.com)



**Mohd. Tareq Irfan**

Mob. No. +91 950 5659670

+91 738 6503377

Tel : 040-64555376

## ATA Packing Products ATA Imports & Exports

Works : Survey No. 283/1, Anupuram, Jedimetla, Phase III, Hyderabad - 500 004.

Business Center : First Floor, Siraj Residency, 36-1 Defence Colony, Sainikpuri, Sec'bad - 094.

Email: [atapackingproducts@gmail.com](mailto:atapackingproducts@gmail.com), [ataimportsexports@gmail.com](mailto:ataimportsexports@gmail.com)

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



Avitech Nutrition participated at the PDFA Exhibition held from 3<sup>rd</sup>- 5<sup>th</sup> 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 glycinates).

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](mailto:info@avitechnutrition.com)

Website: [www.avitechnutrition.com](http://www.avitechnutrition.com)

## SHRI LAXMI GANAPATHI AGENCIES



**We undertake to purchase and sell the Growers and Layers on commission basis.**

We also supply growers of all kinds of breeds ranging from 5th to 20th weeks

**Available on all seasons**

*Contact us for purchasing / selling the poultry farms*

**Shri Laxmi Ganapathi Agencies**

Attili, West Godavari District – 534 134, (A.P).

**(M): 9666939299 and 9849195410**



## PhyGenoat IPPE, Atlanta, USA in January 2023



PhyGeno exhibited at the IPPE (International Production and Processing Expo) in Atlanta, Georgia, USA between 24<sup>th</sup>- 26<sup>th</sup> 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 phyto-genic (plant based feed additive) range of prod-

ucts 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)

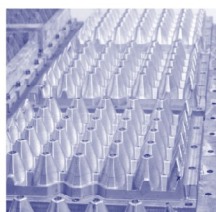
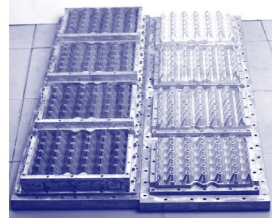
E-mail: [info@avitechnutrition.com](mailto:info@avitechnutrition.com)

Website: [www.avitechnutrition.com](http://www.avitechnutrition.com)



### S.S. PACKAGINGS

**Mfrs.:**  
**Corrugated Boxes,  
Cores Pulp trays, Coir**



**Contact : T. Subramanyam  
Managing Partner**

H.No. 5-011/6, Ramireddy Nagar,  
IDA, Jeedimetla, Hyderabad-500 055.  
Email: [slpc.2002@gmail.com](mailto:slpc.2002@gmail.com)

**Cell: 98660 75805 Fac. : 040-23095996**



### SRI LAKSHMI PACKAGING COMPANY

**Mfrs.:**  
**Corrugated Chick Boxes &  
Hatching Egg Box  
Paper Pulp trays, Coconut Coir**

**Contact : P. Someswara Rao  
Managing Partner**

Plot No. S-15 to S-18, Rami Reddy Nagar,  
IDA, Jeedimetla, Hyderabad-500 055.  
Email: [slpc.2002@gmail.com](mailto:slpc.2002@gmail.com)

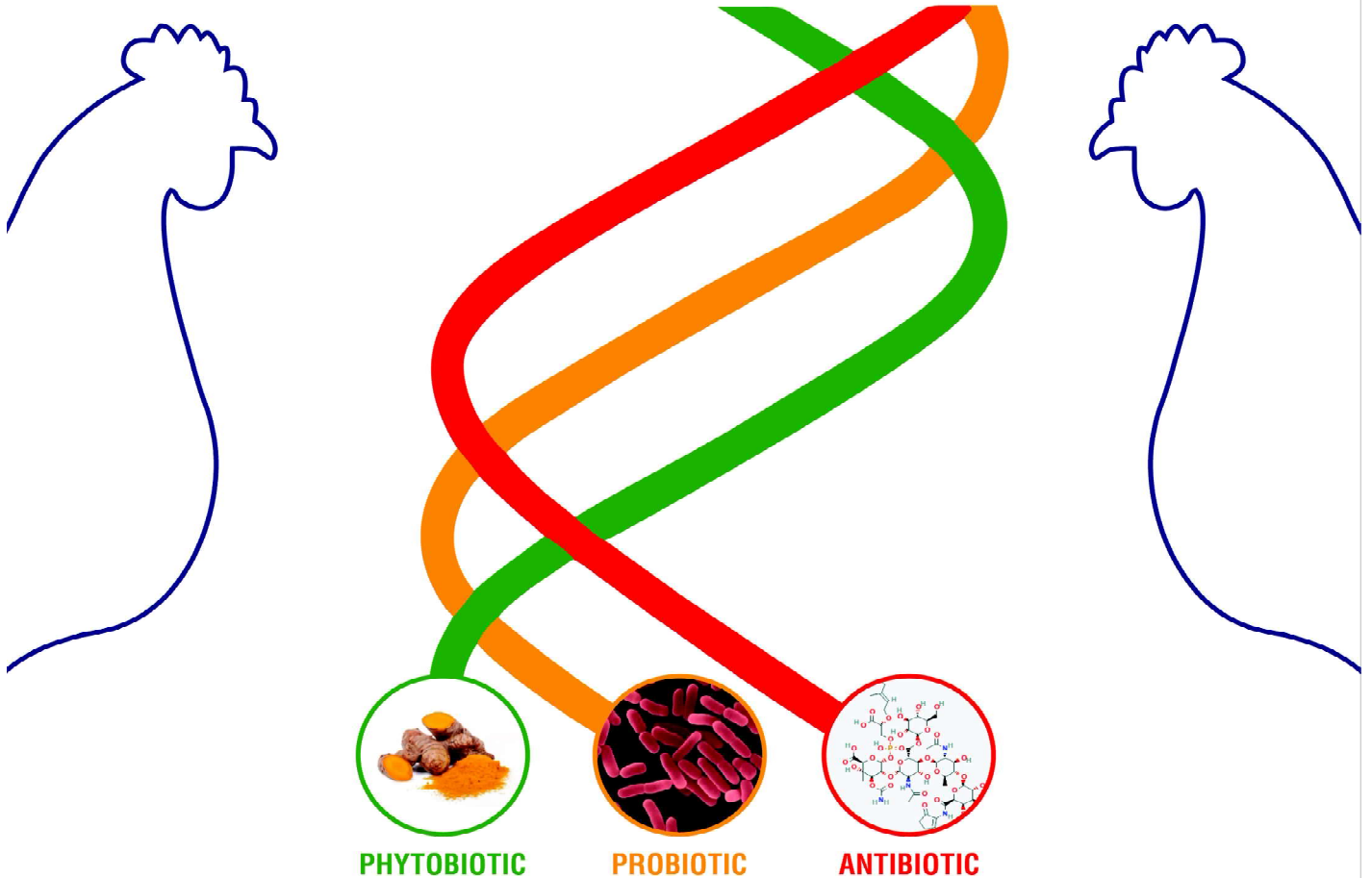
**Cell: 98491 09478 Fac. : 040-20005996**

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

# BAMBERCIN® PLUS

The Novel & Potent **TRIBIOTIC**



PHYTOBIOTIC

PROBIOTIC

ANTIBIOTIC

The 1<sup>st</sup> of its kind & Synergistic **3 in 1** Feed Premix for Poultry  
for

- Healthy birds
- Optimal gut microflora
- Reduction in FCR
- Better immunity & disease resistance
- Wholesome meat & eggs
- Improvement in profits

**Provet Pharma Private Limited**

No. 9, 1<sup>st</sup> Floor, Chakrapani Street, 2<sup>nd</sup> Lane, Narasingapuram Extension,  
Maduvankarai, Guindy, CHENNAI - 600 032. INDIA  
Telefax: +91 44 2244 2124 / 27 | E-mail: info@provet.in



[www.provet.in](http://www.provet.in)

Facebook: provetppl | Twitter: provetppl | LinkedIn: provetppl

# ROSH-C +



*Next Generation Stress & Stroke Reliever*

**“Rosh C+” is Unique blend of 26 Crucial Ingredients**

■ **Composition :**

- A. Synthetic Coated Vit C-50%
- B. Other Ades-50%
- 1 - Heat regulator
- 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 :**

- ⊙ **Unique & Leading** formulation since last 20+ yrs
- ⊙ Work better for **Stress and Stroke** ( Hot, Cold & Other Stress )
- ⊙ Power pack blend of **Vit.C 50% and 26+** Ingredient mainly **Heat Regulator, Aspirin, Chromium, Betaine, Minerals, Immune Booster** etc.
- ⊙ With Special Technology **Vit C coated with Energiser** to prolong Vit C degradation & insta energy source
- ⊙ **Special Value added agents** helps to protect from stroke in peak heat after 2/3 pm.
- ⊙ **Balanced Electrolyte and Osmoregulation.**
- ⊙ **Achieving Hormonal Balance** to combat stress
- ⊙ **Quick Relief** to birds
- ⊙ **Effective** than individual uses of Vit.C & other concern supplements etc.
- ⊙ **Addition** of of essential amino acids will help to maintain body weight in stress
- ⊙ **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



Manufactured By :

**ROSH PHARMA**

S.No. 159, Phursungi,  
Tal. Haveli, Dist. Pune, India.



Marketed By:

- 📍 **Bhavana NutriBio Sciences**  
E.7, 2nd Floor, Above Mahavir Motors,  
Opp. Gate No.1, Market Yard,  
Gultekadi, Pune. 411037, India.
- 🌐 [www.bhuvanans.com](http://www.bhuvanans.com)
- ✉ [bhuvananservices@gmail.com](mailto:bhuvananservices@gmail.com)
- ✉ [services@bhuvanans.com](mailto:services@bhuvanans.com)
- ☎ **+91 8975590191** (Service Manager)

Contact Us :- Dr Santosh Ire : 9850979652 & Dr Manoj Sarma : 9396686500



## Your partner in Animal Health

In a globalising world with a growing population, the demand for food is rapidly increasing. It is a challenge for our customers to produce enough food in a safe, healthy, animal-friendly, and sustainable manner. Healthy livestock makes an important contribution to achieving this. We support the livestock business worldwide with our products and services. The combination of diagnostics and animal health expertise is what makes Royal GD unique. It enables us to help you improve animal health by making sure you provide reliable results to your customers with, for example, our diagnostics and PTS.

ROYAL GD IS AHEAD IN ANIMAL HEALTH  
WITH INNOVATIVE PRODUCTS AND SERVICES

Our National Distributor for India:



**Anand Animal Health Pvt. Ltd.**

No. 53, 6th Cross, Nanjappa Garden, Babusapalya, Kalayan Nagar, Bangalore - 560 043, India.

Phone: +91 2692 264025 / 9426061922

E-mail: [anandanimalhealth@gmail.com](mailto:anandanimalhealth@gmail.com), [science@anandanimalhealth.com](mailto:science@anandanimalhealth.com)

Web : [www.anandanimalhealth.com](http://www.anandanimalhealth.com)



# World No.1 Layer Bird Now Ready to Rule India



- ₹ Local Breeding Program
- ₹ Lowest Feed Per Egg
- ₹ Maximum No. of Saleable Eggs
- ₹ Superior Livability
- ₹ Ability to Recover From Diseases
- ₹ Unmatched Technical Services

## Young Flock Performances

Our Chicks Practically Pays for Itself by 20<sup>th</sup> 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	24
• Mujawar P F	Maharashtra	
• Divya P F	Tamil Nadu	
• Gobinath P F	Tamil Nadu	
• SRG P F	Telangana	
• Imran Layer	Bihar	25
• Amba P F	Maharashtra	
• Shivraj Metkar P F	Maharashtra	
• Revathi P F	Tamil Nadu	

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

## ON THE PATH WAY TO MAKE

₹ 150-200 MORE PER BIRD With **Srinivasa Hy - Line**



**Vaibhav Poultry Farm,  
Maharashtra**  
Mr. Santosh Patil



**Divya Poultry Farm,  
Tamil Nadu**  
Mr. Vivek Kaliannan

- 🌟 Flock Age : 79 Weeks
- 🌟 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/-

**Srinivasa Farms™**  
Srinivasa Farms Private Limited  
(CIN : U01222TG1983PTC003979)

📍 Registered Office : Plot No. 82, Kavuri Hills, Phase II, Madhapur, Hyderabad - 500081, Telangana, India.  
✉ E-mail : contact@srinivasa.co  
☎ Phone : +91 40 23633500 / 501, +91 91000 21340  
🌐 www.srinivasa.co | Follow us on

27/02/2023

## PRESS RELEASE

# IAICC Hyderabad Chapter was inaugurated on 13-February- 2023



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

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





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



**Time to Time More, Healthy & Premium Quality Chicks**



**INSIDE SERIES**



**OUTSIDE SERIES**



**Digital Series**



**KARAMSAR POULTRY EQUIPMENTS™**

OFFICE : K-139, POCKET-K, SECTOR-5, DSIIDC INDUSTRIAL COMPLEX BAWANA, NEW DELHI-110039

email : [karamsarpoultryequipments@gmail.com](mailto:karamsarpoultryequipments@gmail.com) \* [tarankaramsar@gmail.com](mailto:tarankaramsar@gmail.com)

Website : [www.karamsar.in](http://www.karamsar.in) [karamsarequipments.com](http://karamsarequipments.com)



9910310001, 9999226259, 8888800076, 9910423173



INCUBATOR  
(CHICKMAN SERIES)



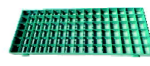
INCUBATOR  
(EGG HATCH SERIES)



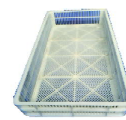
DEBEAKER



VACCINATOR



PLASTIC  
EGG SETTING TRAY



PLASTIC  
EGG HATCHER BASKET



DOUBLE WAFFER CAPSULE

**WE HAVE NO BRANCH**



**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	
<b>NECC SUGGESTED EGG PRICES</b>																														
Ahmedabad	475	480	483	483	460	462	465	465	445	445	445	435	440	442	445	445	445	445	445	448	450	450	435	435	435	435	435	435	435	450.29
Ajmer	445	445	430	412	412	412	412	402	402	375	370	372	390	395	395	395	385	385	400	403	395	380	380	380	380	380	385	397	400	397.64
Barwala	435	420	415	402	402	402	402	402	381	381	381	381	386	391	391	391	391	391	400	403	403	378	378	378	378	382	392	395	394	
Bengaluru (CC)	465	465	465	465	465	465	465	465	445	445	445	445	445	445	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	429	434	440.86
Chennai (CC)	480	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	465	468.39
Chittoor	473	473	473	473	473	473	473	473	473	448	448	448	448	448	458	458	458	458	458	458	458	458	458	458	458	458	458	458	461.39	
Delhi (CC)	445	454	454	435	421	421	421	421	421	400	400	395	398	405	410	410	410	410	410	421	421	421	400	400	400	400	403	415	415.07	
E.Godavari	440	445	445	445	445	445	445	445	415	415	415	415	408	411	414	409	409	409	409	409	409	400	400	400	400	400	405	410	418.46	
Hospet	425	425	425	425	425	425	425	425	405	405	405	405	405	405	410	410	410	410	410	410	410	400	400	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	392	395	395	385	385	385	370	375	380	385	394.79	
Jabalpur	453	453	453	440	430	415	415	421	421	421	410	417	420	420	420	405	405	407	407	407	407	407	407	407	407	407	412	412	418.07	
Kolkata (WB)	505	507	507	507	507	507	490	490	490	490	490	475	475	480	480	475	475	475	475	468	468	460	460	460	460	460	465	470	480.82	
Ludhiana	426	436	436	421	416	401	401	401	401	391	381	381	381	388	392	392	392	392	392	405	405	405	386	379	379	379	383	393	397.68	
Mumbai (CC)	478	483	486	486	470	470	475	475	475	450	450	440	440	440	443	446	449	449	449	452	455	455	445	445	445	445	445	445	456.96	
Mysuru	465	465	465	465	465	465	465	465	448	448	448	448	448	448	453	453	453	453	453	453	453	442	442	442	442	442	442	442	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	500	490	480	480	480	480	465	450	450	450	450	455	455	455	455	455	457	459	459	454	449	449	449	449	449	465.32	
Raipur	455	460	460	450	450	445	445	445	435	420	415	420	420	420	425	425	415	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	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	400	400	400	400	400	405	410	418.46	
Vizag	480	460	460	460	460	460	460	460	460	460	440	440	440	440	440	440	440	440	440	440	440	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	400	400	400	400	400	405	410	418.46	
Warangal	425	428	428	412	414	417	417	417	392	392	382	382	385	388	391	391	391	391	394	397	397	387	387	387	372	377	382	387	396.79	
<b>Prevailing Prices</b>																														
Allahabad (CC)	500	500	490	480	476	467	462	452	448	443	429	429	433	443	443	443	443	443	448	448	448	443	443	438	433	433	438	443	451.39	
Bhopal	475	475	475	460	440	440	440	425	425	425	405	410	410	425	425	425	410	410	415	415	415	415	415	405	405	405	405	410	425.18	
Indore (CC)	470	470	460	440	440	440	435	425	420	420	410	410	425	425	420	420	410	410	420	420	410	405	400	400	400	420	420	420	423.75	
Kanpur (CC)	452	462	462	448	433	433	433	419	419	419	405	405	414	414	414	414	414	424	424	424	424	424	424	405	405	414	424	433	423.79	
Luknow (CC)	513	513	500	500	490	480	480	467	467	467	457	450	433	433	433	433	433	433	450	450	450	450	450	450	450	450	460	470	461.14	
Muzaffarpur (CC)	487	490	490	470	460	460	460	460	440	440	440	440	445	450	458	458	453	450	460	460	460	460	440	440	440	440	443	448	456.14	
Nagpur	450	460	460	460	440	440	445	440	440	415	415	415	415	415	425	425	410	410	410	410	420	420	410	400	400	390	390	422.14		
Patna	487	490	490	470	460	460	460	460	440	440	440	445	450	458	458	453	450	450	460	460	460	460	440	440	440	440	443	448	456.14	
Ranchi (CC)	486	500	486	486	476	476	467	467	467	452	452	452	452	457	457	457	457	457	457	467	467	453	453	443	443	443	443	443	460.93	
Varanasi (CC)	490	497	497	483	483	467	457	457	457	450	433	433	440	450	450	450	450	450	457	463	463	447	440	440	440	440	443	447	457	456.82

# Managemental Factors Affecting Hatching of Chicken Eggs

S. K. Joshi<sup>1</sup>, S. Sathapathy<sup>2</sup>, P. K. Rath<sup>3</sup>, B. P. Mishra<sup>4</sup> and S. S. Biswal<sup>5</sup>

<sup>1</sup>Department of Livestock Production and Management, CVSc. & A.H., OUAT, Bhubaneswar-751003, Odisha

<sup>2</sup>Department of Anatomy and Histology, CVSc. & A.H., OUAT, Bhubaneswar-751003, Odisha

<sup>3</sup>Department of Veterinary Pathology, CVSc. & A.H., OUAT, Bhubaneswar-751003, Odisha

<sup>4</sup>Department of Livestock Products Technology, CVSc. & A.H., OUAT, Bhubaneswar-751003, Odisha

<sup>5</sup>Department of ARGO, CVSc. & A.H., OUAT, Bhubaneswar-751003, Odisha

\*Corresponding email ID: drprkrath78@gmail.com

**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 too 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.

### References

- **www.isapoultry.com (2010):** From egg to chicken. Pp. 7-12.
- Hatchery and hatching egg sanitation division of agricultural sciences university of California leaflet 2629.
- **R. Schulte-Druggelte, Cuxhaven, Germany (2011):** Recommendations for hatching egg handling and storage Lohman information Vol. 46 (1): Pp.55.
- **Barten, M. (2007):** Poor performance due to transportation. *World Poultry*. Vol. 23 No. 8:Pp.21.

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

More than 350 Biogas Plants  
in 25 Countries on 5 Continents



**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 m<sup>3</sup> 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.

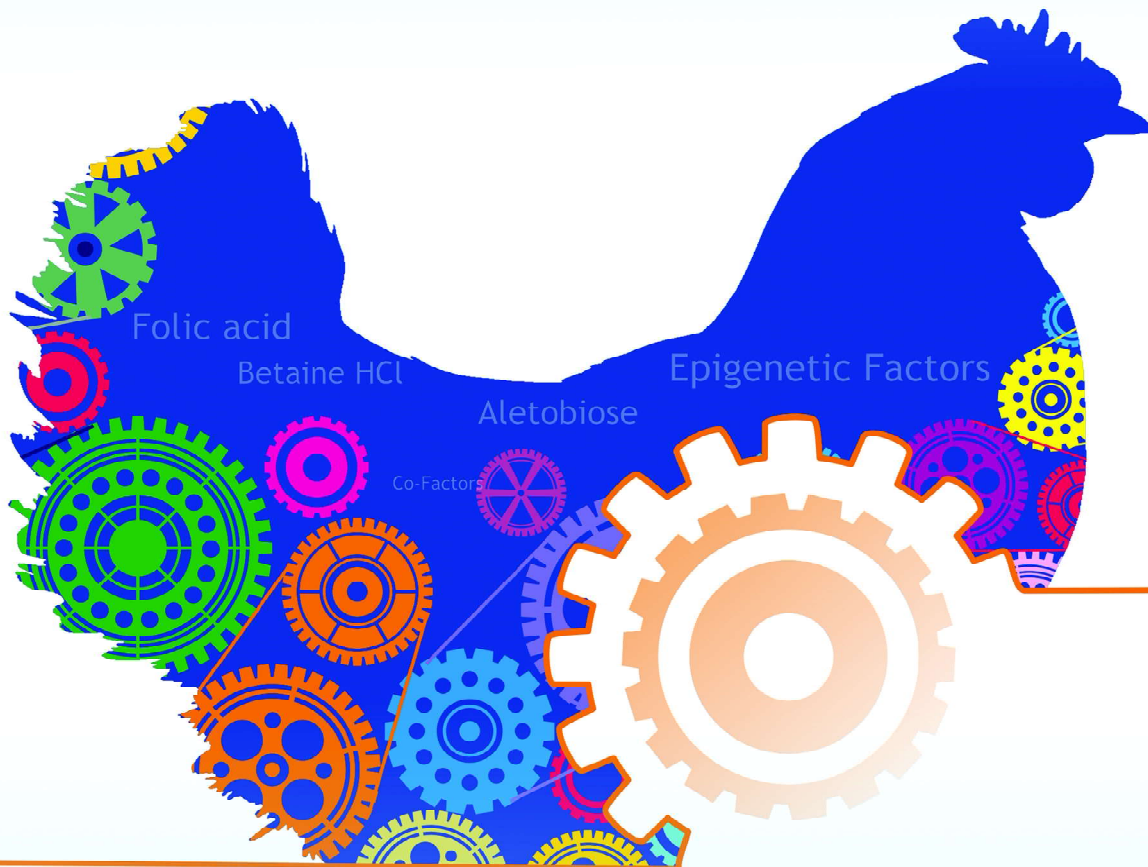
The biogas specialist is well aware of the importance of customer and investor proximity. Accordingly, the Group's sales and service network spans the entire globe. The range of customers includes businesses from industries such as agriculture, food, waste and wastewater. So far, the 120 employees of 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<sub>2eq</sub>.

Maximize the True Potential  
of **Betaine** with



# OptiBetaine

A value added Betaine with **99 % Methyl Donor Value (MDV)**



## OPTIMA LIFE SCIENCES PVT. LTD.

### CORPORATE OFFICE

PNO 47/2/2, BL 44,  
LIC Colony, Parvati,  
Pune - 411009, Maharashtra.  
Tel: 020-24420720  
info@optimalife.in | www.optimalife.in

### OPTIMA INTERNATIONAL BV

Binnenstraat 27 6674 BX, Herveld,  
the Netherlands  
Ph. +614193538  
[export@optimalife.in](mailto:export@optimalife.in)  
[www.optimalife.eu](http://www.optimalife.eu)

### OPTIMA GLOBAL FZ LLC

A1-608B, Building no. A1  
Al Hamra Industrial Zone-FZ, RAK  
United Arab Emirates  
info@optimalife.ae



THE OCEANS  
PROVIDE US  
UNLIMITED GIFTS  
IN THE FORM OF  
**SEAWEEDS**  
WE BRING THEM  
TO YOU  
IN

# BOT

## BIOMARK ORGANIC TRACEMIN

THE ONLY COMBINATION OF  
**GLYCINATE TRACE MINERALS**



**NUTRIENT RICH SEAWEEDS**  
FOR DESIRED GROWTH AND  
MAXIMUM PERFORMANCE.

Marketed By:



311, 3rd Floor,  
Ascot Center Co-op Soc.Ltd.,  
Sahar Road, Near Hilltone Hotel,  
Opp ITC Maratha Hotel,  
Andheri (East), Mumbai - 400099.  
Maharashtra, INDIA  
TEL.: (022) 28200426/27/28.  
E-mail: info@exoticbiosolutions.com  
www.exoticbiosolutions.com

Manufactured By:



**Exotic<sup>®</sup>**  
**MUSHROOMS**

Survey No - 556, Village Bhadane  
Saralgaon - Kinhavali Road,  
Tehsil - Murbad,  
Dist: Thane - 421 401.  
Maharashtra, INDIA  
Customer Care No: 8655068108



Manufacturing Unit  
is certified for  
leading Industry Standards



**BOT is the ONLY PRODUCT** made  
from Nutrient Rich Tropical  
Seaweeds and Glycine  
chelates.

**BOT is a natural source of Trace  
Minerals, Calcium, Potassium,  
Vitamins A, E & C,  
Anti-Oxidants, Anti-Microbials  
and many other nutrients.**

**This unique combination of  
Seaweeds and Glycine chelates  
results in maximum absorption  
of trace minerals in Birds**

**To meet the mineral  
requirements of your bird, use  
BOT regularly.**



# RR VETERINARY HEALTH CARE PVT. LTD.

An ISO 9001:2015 and ISO 22000:2005 Certified Company

4-122/1/1, Plot No. 115 & 123, Kuntloor Village, Abdullapurmet  
Mandal, R R Dist - 501 505, Telangana, INDIA.

Email: info@rrveterinary.in, www.rrveterinary.in, www.rrvhc.in

**15** YEARS OF  
UNBLEMISHED  
QUALITY  
SERVICE

**LARVEND™ Gold Plus**  
Natural clay solution

1 Ltr & 5Ltrs



**FLYXIL GOLD™ plus**

1 Ltr & 5Ltrs



**RR ELIMINATOR™**  
India's No.1 Rat Control Brand

10 kg, 20 kg Buckets,  
& Bait Stations



Bait Stations



**SPOTON™**

PROPOXUR 2% BAIT

1KG & 5KG



**TOXELIM-B GOLD PLUS™**  
"Unique & Complete Health Tonic"

1Ltr & 5Ltrs



**ANTIPROL™**

"The Only answer to Prolapse & Intussusception"

5Ltrs



For further details  
Please contact :

**Y. Ram Mohan Rao**  
Managing Director (Mob: +91 94904 10562)

**Dr. Sreekanth Devalraju**  
Manager (Mob: +91 94410 31794)



# SAI KRISHNA

## POULTRY EQUIPMENTS



Chick Feeder



Egg Tray



Chick Feed Tray



Chick Drinker



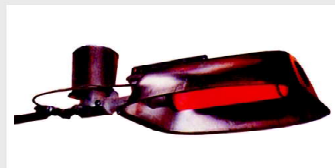
Drinker  
( Assemble Valve System )



Deluxe Drinker  
( Standard & Large )



Feeder



Gas Brooder



Chain Link Mesh



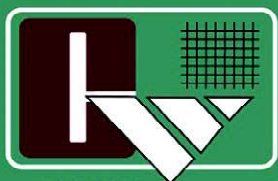
Jumbo Drinker



## SAI KRISHNA PLASTIC INDUSTRIES

Manufacturers of Plastic Poultry Equipments

Factory : Behind Petrol Bunk, Padmanagar, Karimnagar - 505002, Tel : 0878 - 6504508, Mobile : 98490 59508  
 Sales Depot : Plot No : 11, Road No:2, Opp : Nimanthran Function Hall, Mamatanagar Colony, Nagole, HYDERABAD - 68. (A.P),  
 Tel : 040 64610508, Mobile : 92466 59508, E-mail : info@saikrishnapoultry.com, Web : www.saikrishnapoultry.com



# Omega Group Mumbai, India

- Omega Weldedmesh Co. Pvt. Ltd. ■ Omega Farm Equipments  
Manilal & Co. ■ Vimal Agencies ■ Elite Wire Products  
Serving Poultry Industry since 1969.

**Poultry Cage Systems ■ For Commercial Layer ■ For Broiler Breeder ■ For Commercial Broiler**



**Cage Weldedmesh (Made out of High Quality 300 GSM Wire ONLY)**

■ Superior Welding Strength ■ Measurement accuracy ■ Resistance to Corrosion. ■ Customized Solutions



**G.I. Stand 'S' Frame**



**G.I. Stand 'A' Frame**



**M.S. Frame**



**G.I. Feeder**



**Feed Silo**



**PVC Feeder**  
100% Virgin Material



**Aluminum Feeder**



**Plumbing Unit**



**Nipple & PVC Pipe with Saddle**



**Water Channel**



**Chain Link**



**Side Mesh**



**Cage Mat**



**Egg Collection System**



**Auto Feed Trolley**



**Manure Collection**



**Cooling Pads & Fans**

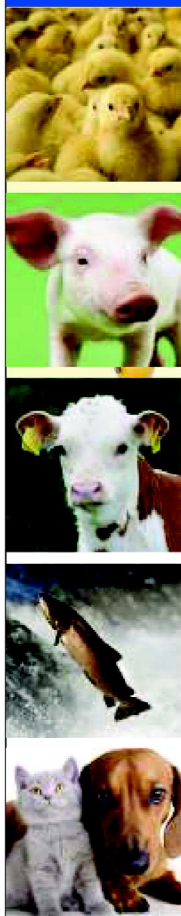
**Administration Office :** 209, Sant Tukaram Rd., Iron Market, Mumbai - 400009. India

**Tel.:** +91 22 23486977, +91 22 23483664, +91 9324032420, +91 9324032419, +91 9833670617, Fax: +91 22 23481592

**E-Mail :** response@omegaweldmesh.com ■ vimal.omega@gmail.com ■ vinit.omega@yahoo.co.in ■ www.omegaweldmesh.com

**Manufacturing Unit :** Plot No. 22, Village Dhansar, Taluka Palghar, Dist. Thane - 401 404, INDIA ■ **Tel.:** + 91 2525 240 995

Nutrition is a fascinating journey through the paths of research and innovation.



## The enzyme solution to improve diets with soya



### Why should you add Capsozyme SB-Plus

- Reduce cost of production.
- Increase 10% Metabolizable energy of soyabean meal.
- Increase 8% digestibility of amino acids of the soya.
- Significantly improves weight again feed conversion rate in all species production.
- Reduce distension in the large intestine and promotes growth of intestinal villi improving.

## Capsozyme SB-Plus

Enzyme

$\alpha$ -galactosidase and xylanase

The right enzyme for each Substrate

One product for each need

Natural & Synthetic Pigments

**Capsantal**

Acidulants

**Digestocap Lacticap**

Enzymes

**Capsozyme**

Fungicides

**Fungicap**

Antioxidants

**Capsoquin Oxicap**

Antimicrobials

**Salcap**

Flavour & Sweeteners

**Flavoral Sugarcap**

Specific supplements

**Capsomin Capsogenin**



Industrial Técnica Pecuaria, S.A.

7a planta , Barcelona  
SPAIN  
Contact : Dr.Sameer Sawant  
Mobile number: +91 9820282842



**WANTED  
DISTRIBUTORS**

**LUBING**

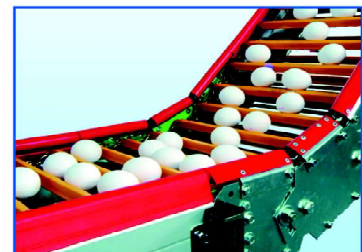
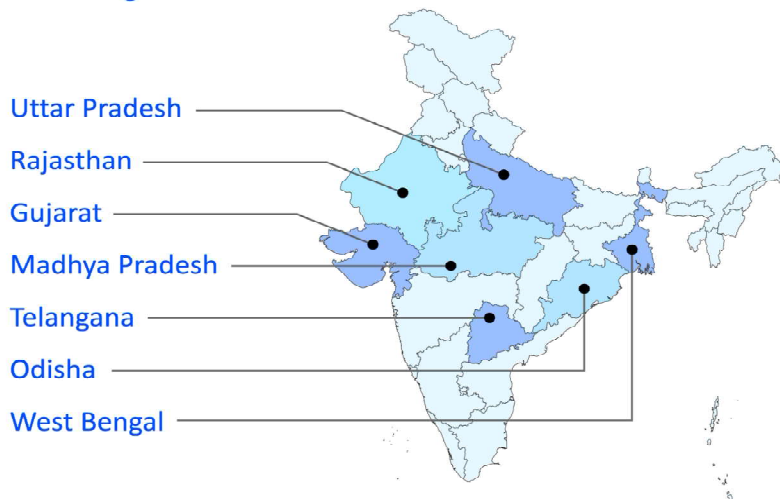


**THE ORIGINAL!**



Since 2001, Lubing India Pvt. Ltd. is most preferred brand for Nipple Drinking System for Broilers, Layers & Breeder farm.

To cater to its already established markets as well as to tap the areas with huge potential, **Lubing India is looking for financially sound distributors in following states:-**



- **Drinking System**  
For Chicks & layers In Cages
- **Top Climate System**
- **Conveyor System**  
For Egg Transportation

**LUBING INDIA PVT. LTD.**

Contact: +91 9975440407  
+91 7387007677

Email : sales1@lubingindia.com  
sales2@lubingindia.com  
URL : www.lubingindia.com

4<sup>th</sup> Expo in Nashik



# INDIA POULTRY EXPO 2023

(Opportunities for all)

A Joint venture of Tezasvi Events & People for Poultry



In collaboration with

## Western India Poultry Association, Nashik



**22<sup>nd</sup>**  
EDITION

Date

**25-26-27**  
**MARCH 2023**

Venue:

The Dome, Thakkar Estate,  
Lavate Nagar,  
Near City Centre Mall, Nashik.

Supported by:



## TEZASVI EVENTS

2-1-444/16, 1st Floor, O.U.Road, Nallakunta, Hyderabad - 500044.  
Cell: 9849368003, 9644233397 Email: tezasvievents@gmail.com

# Egg Breakage

...could impact your profit!



Optimal calcium absorption (Hadjod)

Endurance optimizer  
(Cr, Lasuna, Shatavari, Amalakki and Ashwagandha)

Improves fertility and hatchability

Improves egg production

Improves eggshell quality

**Himalaya Wellness Company**  
Makali, Bengaluru 562 162, India  
www.himalayawellness.com  
E-mail: write.to.us@himalayawellness.com



**innovax**<sup>®</sup>  
ND-IBD

# MORE POWER TO YOU

## **INNOVAX<sup>®</sup>-ND-IBD - PUTTING YOU IN CONTROL OF WELFARE & PRODUCTIVITY**

MSD Animal Health is helping to shape the future of the poultry industry through continuous innovation.

Innovations such as Innovax<sup>®</sup>-ND-IBD the world's first dual-construct HVT vaccine that offers 3-in-1 protection in a single injection - safeguarding your birds from infection challenges before they even leave the hatchery, without the risks of bursal atrophy or interference with infectious bronchitis vaccination and MDA levels.

To find out more please contact your local MSD Animal Health Innovator today.

**ALWAYS PRODUCING MORE**

 **MSD**  
Animal Health



# VH ND SHIELD

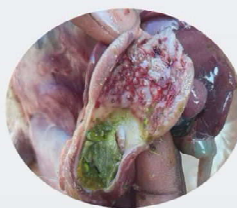
**Mucosal Immunity**  
(Live vaccine)







**Cellular Immunity**  
(Inactivated Vaccine)



## Early Protection in Broilers against Catastrophic Genotype XIII Newcastle Disease Virus



### Unique Qualities :

-  High Antigenicity - > 1000 HAU (Hemagglutination Virus Units)
-  Low volume - 0.1 ml / chick.
-  Fast and high immune response.
-  Live + Killed vaccines - provides both mucosal and cellular immunity.

**VENTRI BIOLOGICALS**  
(Vaccine Division of VHPL)

Venkatashwara House, S. No. 114/A/2, Pune-Sinhgad Road, Pune - 411 030. Tel. : +91-20-24251803 Fax : (020) 24251077, 24251060



Email: [ventri.biologicals@venkys.com](mailto:ventri.biologicals@venkys.com)

[www.venkys.com](http://www.venkys.com)