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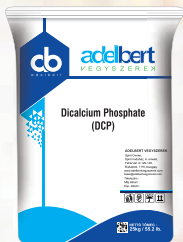
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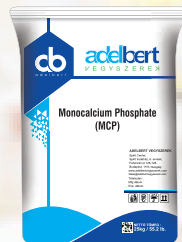
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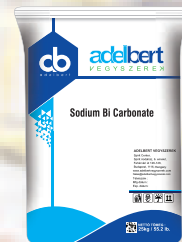
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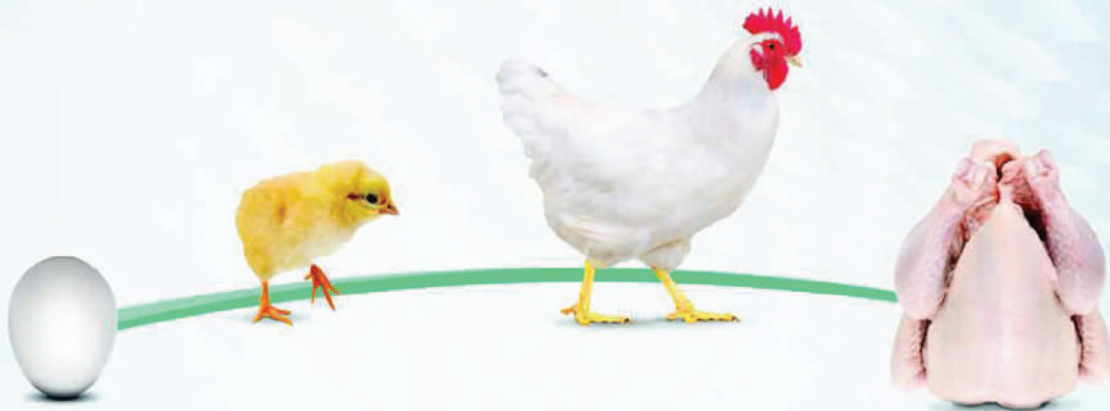
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*A special aircrafts were flying all over the continent to fly in specialist from Australia, machines from Switzerland & Slovenia, plasma cutter from USA.

A helipad and a working runway were also built up at the accident site, a vertical oxygen generator plant was installed at the accident site.

This rescue could well be documented by National Geographic- such were the standards and scale of operation.

This also speaks volumes of the present government value for human life and the Indian lives.

The foot fall in the recently concluded Poultry India at Hyderabad, was below the expectations. The Abu Dabhi show, local elections, regional shows and also exorbitant hotel costs all is presumed to have caused this lower attendance. Nevertheless, the Halls were good in number. On the other hand only the keen visitors any how made it to the fair.

Telangana elections fraught with dynastic rule and toxic combination of religious divide in voting for a political leader, is indeed a tough challenge. Unless masses are to educated, they will not be aware of the consequences. A few attractive goodies only at voting time is a deciding factor in such cases.

The arrival of winter months and farmers are hopeful to make good the losses of the previous months.



Lumis Enzyme Participation in Poultry India Exhibition, 2023.



Lumis Enzymes, a leading provider of enzyme solutions for the animal feed industry, recently participated and made a significant impact at the Poultry India Exhibition held at Hitex Exhibition centre, Hyderabad from 22nd to 24th November 2023. The exhibition provided Lumis Enzymes with an excellent platform to showcase their innovative enzyme solutions and engage with industry professionals, researchers, and customers. The company's participation in the exhibition was a resounding success, as it showcased its innovative enzyme products and demonstrated their effectiveness in improving poultry health and productivity. Lumis Enzymes' booth at the exhibition attracted a large number of visitors, including poultry farmers, industry professionals, and experts, who were keen to learn about the company's latest

advancements in enzyme solutions and their potential impact on poultry production.

The company's team of experts was on hand to provide in-depth information about their products, answer questions, addressing the challenges faced by the poultry industry and offering tailored enzyme solutions to meet the specific needs of farmers. This interactive approach allowed Lumis Enzymes to effectively communicate the value of their enzyme solutions and highlight their potential to improve the overall efficiency and profitability of poultry operations. It not only garnered attention but also solidified Lumis Enzymes' reputation as a trusted partner in the animal feed industry.

Moreover, Lumis Enzymes' participation



in the Poultry India Exhibition provided an excellent platform to network with industry peers, exchange knowledge and insights, and explore potential collaborations and strengthen existing relationships. The company's active participation in the exhibition helped them to elevate their presence in the poultry industry and position themselves as a

trusted partner for enzyme solutions. Overall, the successful participation in the exhibition has not only elevated the company's profile but also reinforced its dedication to driving positive change and delivering exceptional value to the animal feed sector, including the Poultry, Aqua and Cattle industry.



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INDO-DUTCH - “Sustainability in Poultry”

The Show attracted good response from the elite of the I Poultry industry with the galaxy of prime speakers in their respective field.

The idea of Sustainability, which is a happening word around the world yet with limited and narrowed understanding of the How of it – is indeed a challenge!



The Dean, College of Veterinary Science and A.H., Veterinary University DUVASU Mathura – Prof (Dr.) Pankaj Kumar Shukla – a very popular and well known figure in the industry –

not only with in the government but excellent interaction with the active associations, federations and an excellent bridge between the government policies and the seamless benefits of the knowledge and technology to the private sector ultimately helping the farming community. Dr PK Shukla – made and exhaustive but points with a punch of how the Sustainability objectives in our poultry industry – which is more specific to it was brilliantly explained and shared.

MrBouke Hamminga (DirectorPasReforms) another seasoned traveller of India from the Netherlands threw light on how modern hatching technologies has an significant impact on the sustainable poultry production. There were new concepts that helped accelerate growth and increase profitability.



Mr Edouard Perrault, Director SASSO (Hendrix Genetics)shared his experience of



how the genetic innovation and advancements were affecting the life of the rural farmer in the traditional coloured bird farming in the tropical countries of Africa, Asia. This seems to have a positive impact on the Indian objective of doubling the farmers income. Easy management of the birds and solving generation of income and also addressing the nutritional requirements.

The Agricultural Counsellor of the Netherlands Embassy is not a new face in these events over the past so many occasions at Poultry India. The industry thanks him for offering such a beautiful platform for interaction between the Specialists, Industrialists and the government for the benefit of Poultry Industry. The moderator and the audience expressed their immense happiness and thankfulness for the efforts of Michiel in initiating such an event where his efforts to bind the countries in a useful exchange of idea and partnership for the growth of the industry. There were a good number of Dutch investors, companies and participants who always have appreciated such events.



Mr Selvan Kannan (Value Consultants) conducted the Moderation with seamless flair in ensuring interactions to bring out the best of the speakers and the august audience that were rapt in attention. All prominent media persons were present to partake the message on the latest on the sustainability!

The event concluded grandly with take home points and also gathering with dinner Mr Rambabu from the NBSO did a good job in organizing this successfully once again as in continuation of several of them in the past.



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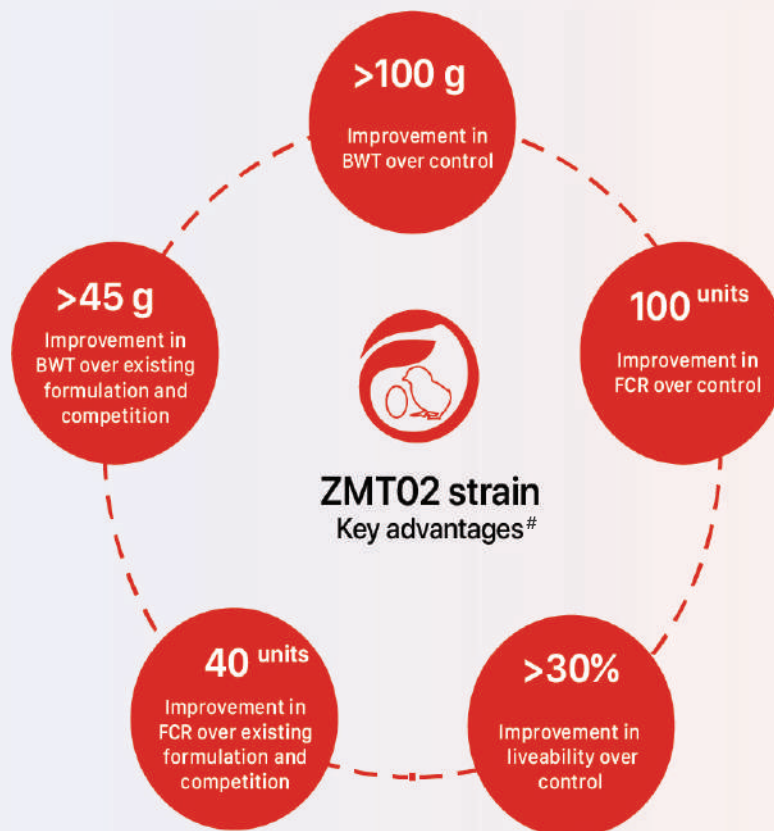


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GLIMPSE FROM THE VIV MEA EXHIBITION 2023 AT ADNEC, ABU DHABI.



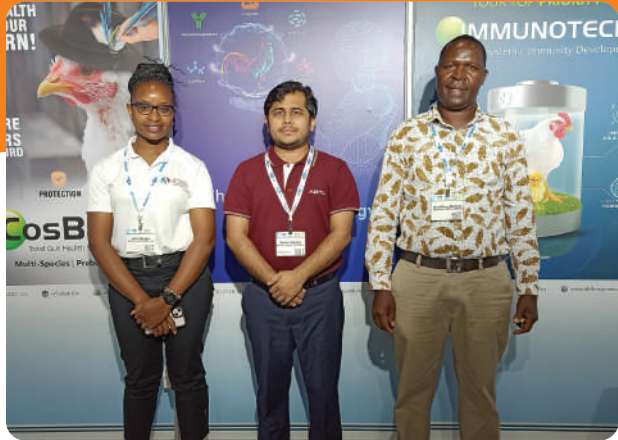
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FEW MORE INSIGHTS FROM VIV MEA EXHIBITION 2023.



VIV MEA exhibition has focused on the future of the global feed industry & is also focusing on the latest trends in the livestock sector. VIV MEA boosted our trade opportunities & great to see all at the global meet for boosting their exports.

Thank you to all the visitors for your exceptional support at our stall & making our participation a success.

"A moment lasts for a second but the memories live on forever."
Mr. Sumit Sipany - Product & Marketing Executive, ABTL.

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Venkateshwara B V Bio-Corp Private Limited organised Technical seminar on “BV 300 Nutrition and Management”.

VENKATESHWARA BV BIO-CORP PVT LTD organized Technical seminar for commercial Layer Farmers on Monday 06th November, 2023 at Hotel Lake Vinora, Ajmer, Rajasthan. This technical seminar was attended by layer farmers of Ajmer and surrounding area. Mr Shashi Bhushan, Zonal Manager, Venkateshwara B V Bio-Corp Pvt.Ltd. welcomed all attendees.

Mr Deepak Khosla (GM- Marketing) shared his thoughts regarding current Commercial Layer Industry scenario.

The speaker for this seminar, Dr Sunil Nadgauda explained in detail about the “BV 300 commercial Layers Nutrition and Management” in all aspects. During discussion he advised to be watchful about quality parameters to be considered while selecting the different feed ingredients. The excerpts from his presentation can be summarized as below.

- BV 300 performance review.
- Importance of body weight monitoring in rearing period and its impact on laying productivity.
- Early Laying Nutrition to maximize peak production and to maintain the consistency.
- Benefits of Phase feeding – to reduce the overall egg production cost and to optimize the efficiency.
- Alternative sources of Protein & Energy and precautions to be taken while using the alternative feed ingredients.
- Maintaining the egg shell quality during extended laying periods.
- Innovative premix solutions for simplify the feed manufacturing process and also to avoid errors during feed production. Mixblend is the new innovative and simple solution which provides Vitamins, Trace minerals, Enzymes, Toxin Binder, Liver tonic in required proportion to boost the productivity.

Dr Sunil Nadgauda answered the queries of

the attendees related to the subject and other technical queries regarding layer nutrition and management.

The Technical Seminar was attended by around 140 Layer farmers surrounding the Ajmer area.

Mr Shashi Bhushan, Zonal Manager proposed vote of thanks to all. The local Venworld Team organised this technical seminar.



Mr Deepak Khosla (GM - Marketing) sharing his thoughts regarding current Commercial Layer Industry scenario



The Technical Seminar was inaugurated by lighting the lamp by the speaker Dr Sunil Nadgauda (DGM-Technical).



Layer farmers attending the Technical Seminar

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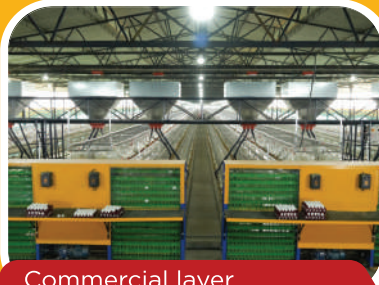
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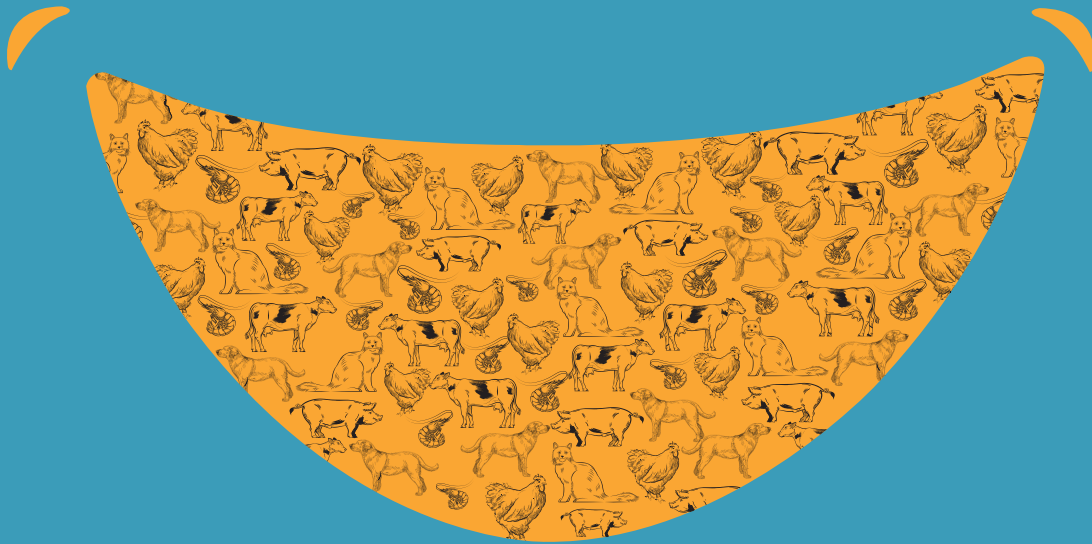
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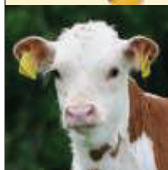
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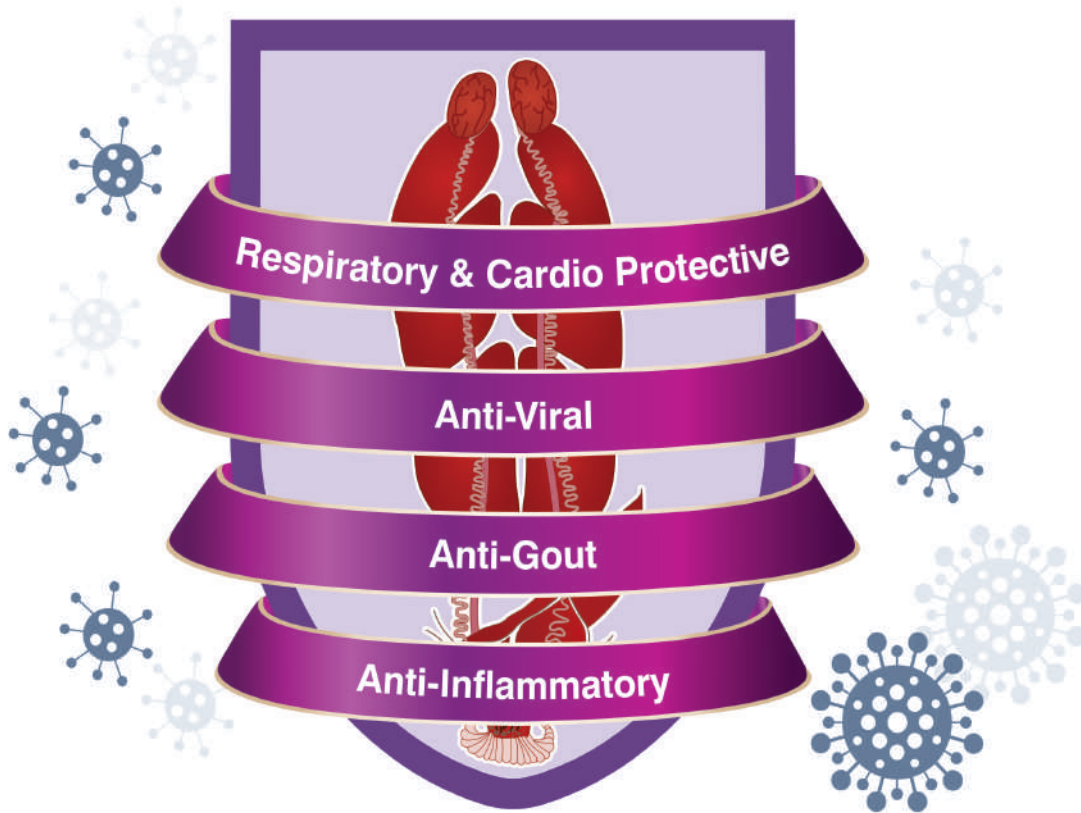
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We Celebrated
“International Egg person of the year 2023”
Sri Chitturi Jagapati Rao
 at Hotel Daspalla, Hyderabad on
23rd November. The event was attended by
Farmers & Industry people.
 Here are few photos from the event



Sri Chitturi Jagapati Rao garu with his Family



Mr. Jonathan Cade, President Hy-Line International handing over the “International Egg Person of the year” to Sri. Jagapathi Rao garu.



Mr. Venkat Rao - Layer Business Head Srinivasa Farms



Sri Chitturi Jagapati Rao & Mr. Chitturi Suresh with Hy-Line International Team



Mr. U Ganesh, Mr. Syed Hameed, Mr. Murlu Manohar, Mr. Akula Murty & Mr. Ramamohan Kapavarpur - Senior Most employees of Srinivasa Farms



Mr. Shekar Reddy, Mr. Sathyshila Reddy, Mr. Vijaybaskar Reddy, Mr. K. Mohan Reddy, Mr. Sripathi Rao, Dr. Balaswamy, Mr. Pathuri Venkat Rao, Mr. S. Mohan Reddy, Mr. Kondal Rao & Mr. A. Shekar Reddy



Sri Chitturi Jagapati Rao & Mr. Chitturi Suresh with Mahida PF, Surat Gujarat



Mr. Chitturi Suresh, Mr. Mohan Reddy (Tamil Nadu), Mr. Sankar Rao, Mr. Ramu, Mr. Vengal Rao, Mr. Ganesh Chowdary, Mr. Mukunda Reddy, Mr. Lokesh, Mr. Sampath & Dr. Anil Rakoti



Sri Chitturi Jagapati Rao & Mr. Chitturi Suresh with Mr. Krishnamurthy (Egg Bank)



Mr. Sripathi Rao, Mr. KS Reddy, Mr. K. Mohan Reddy, Mr. V. Abhishek Reddy & Mr. Sudakar



Sri Chitturi Jagapati Rao & Mr. Chitturi Suresh with Srinivasa Team members from Andhra Pradesh

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28/11/2023

Srinivasa Farms Pvt.Ltd. Expresses Gratitude to Visitors for their Support at Poultry Expo 2023

Srinivasa Farms extends its heartfelt thanks to all attendees, participants, and supporters who made the Poultry Expo 2023 an astounding success. The event, which took place from 22 - 24 November at HITEX - Hyderabad, brought together poultry industry leaders, experts, and enthusiasts from around the world, fostering an environment of innovation, collaboration, and growth.

We are immensely grateful to everyone who contributed to making the Poultry Expo 2023 a resounding success. The overwhelming support and enthusiasm from participants, exhibitors, and visitors alike underscore the industry's commitment to advancement and sustainability.

“We're thrilled to have been part of this collective endeavor towards a brighter future for the poultry sector.”

Srinivasa Farms remains dedicated to driving innovation, fostering collaboration, and supporting the growth of this dynamic sector. The company looks forward to continuing its commitment to excellence, providing top-notch products/ services, and being at the forefront of industry advancements.

For more information about Srinivasa Farms and its contributions to the poultry industry, please visit www.srinivasa.co





Pan India B C C



Pan India Broiler Co ordination Committee has organized National chicken day since last 2 years in the month of November 16th and 17th of the year. This year also we have planned with the help of State Associations and Pharma Companies, National Chicken Day in the month of November 2023.

The details are given here below.

West Bengal

1) Mr. Madan Miathy, General Secretary, West Bengal Poultry Federation, Kolkata, has taken the lead. West Bengal Association has started selling Chicken at concessional rates in 450 Shops all over Kolkata. They have put Banners to promoting Chicken consumption all over the City.

They have arranged chicken recipe competition on 16 November 2023 and Bengali Cine Artist "Miss Rani Reshmoni" has distributed the prizes to the winners. The good participation was good from the Public. They have also arranged tabloos to educate the public regarding quality of chicken.



Chattisgarh

Mr. Sanjay Brahmanekar President has taken the lead in Celebrating National Chicken Day. Chattisgarh Association has started celebrating National Chicken Day from 6th Nov.2023 in around 50 shops.



Maharashtra

Pune: On the occasion of Father of Indian Poultry Dr. Padmashri B. V. Rao's birthday nationwide awareness campaign is being implemented. As part of the campaign, 'National Chicken Day' was celebrated on Thursday and Friday, November 16th and 17th, 2023. On this occasion, chicken was sold at a discounted price from various shops

in the city by our integrator members.

On the occasion of this day Poultry Farmers and Breeders Association Maharashtra President Mr. Sanjay Nalgirkar, Secretary Dr. Ajay Deshpande, Trustee Mr. Krishnacharan has announced that this day will be celebrated pan-India.

Pan India Broiler coordination committee and former president of Poultry Farmers and Breeders Association of Maharashtra Shri. Vasanthkumar Setty said, "This day is being celebrated with the aim of creating awareness about chicken among common citizens. Poultry Farmers and Breeders Association Maharashtra, Karnataka Poultry Farmers Breeders Association, West Bengal Poultry Federation and many other state poultry associations organized various programs across the country. In this awareness campaign, various activities like sale of cheaper chicken, awareness programs, lectures, demonstrations, training are being organized.

At Nashik Zone



At Pune Zone



Poultry Farmers & Breeders Association (MH)

National Chicken Day celebration by Association members at various chicken shop's some images.



At Raigad Zone



Also adding some video links :-

- 1) https://youtu.be/6YwHVAiLr3c?si=I5_49FW07xe02vkj
- 2) <https://mpcnews.in/pune-nationwide-awareness-campaign-on-the-occasion-of-national-chicken-day-386334/>

KARNATAKA

In Karnataka they also celebrated National chicken day by offering chicken at discounted price in 100 chicken shops in Mangalore, Bangalore & Belgaum Members Kwaliti in Balgaum , Star in Mangalore and Rajshekher Reddy in Bangalore,



Karnataka Association has also sponsored Weight lifting Computation on this Occasion, detail photos are attached below.



Prof. G. Devegawda President of Institution of Veterinarians of Poultry Industries (I.V.P.I.) has informed that they promoted and educated visitors in Krushi Mela through there Stall under the Name Poultry World on 18th , 19th and 20th November 2023 and has also distributed eggs and 500 Kg chicken to the visitors of the Stall there was good response from the visiting public

KBPFA is sponsoring in third week of Nov. weight lifting competition details will be sent in due course of time.





M/s Alltech

M/s Alltech have started educating the children regarding chicken quality and necessary of chicken of the growth of their body. In Bangalore School and also have done in schools of Delhi and continue many more schools in coming months

Herewith we are enclosing an email received from M/S Alltech they have given their activities done to increasing the consumption of eggs and chicken in different level along with photographs this is your information.

We thank M/s Alltech for their support to the National Chicken day.

Dear organizers,

Greetings from Alltech!!

I would like to extend my gratitude for providing Alltech

with the opportunity to connect with the community and contribute to the celebration of National Chicken Festival.

Alltech team took great pride in promoting the nutritional advantages of eggs and chicken, especially focusing on educating kids about the health benefits associated with including these products in their diets.

Here are some of the promotional initiatives our team has accomplished-

- 1) Egg distribution and interaction between the Alltech Bangalore team and 40 children at Vidyaranya NGO, Bangalore.
- 2) Visiting Nehru Camp, one of Delhi's largest slum area, and engaging with 120 kids.
- 3) Visiting Government Lower Primary School, Mallanayakanahalli, and encouraging egg & chicken consumption to the 24 students.
- 3) Visiting Government School, Davangere, and explaining 20 students the importance of consuming a balanced diet that includes chicken and eggs.
- 4) Spreading awareness and celebrating National Chicken Festival with our customers.

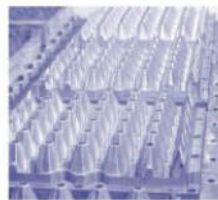
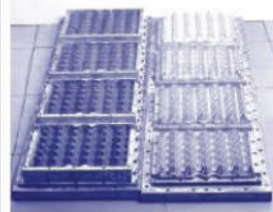
We are glad to inform you on our request for Pan India Broiler Co-ordination Committee. Our following members have started chicken promotion activities.

We Thank all the Associations and Pharma company M/s Alltech for participating in celebration of National Chicken Day-3. We expect same Enthusiasm in coming years also.



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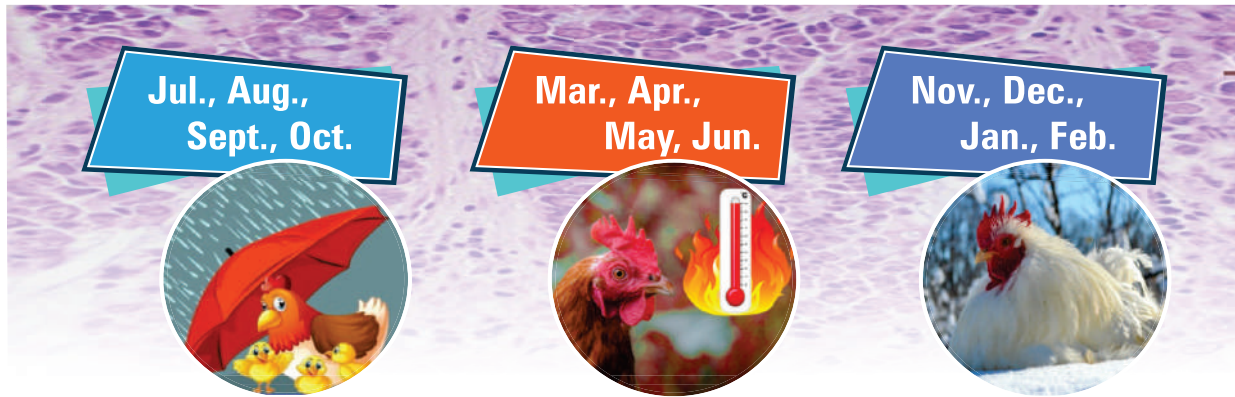
Contact : P. Someswara Rao
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place	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Hyderabad	124	124	124	126	126	126	126	116	116	104	99	109	119	119	119	119	119	112	104	94	104	114	114	114	114	114	114	114	114	114	114	
Karimnagar	124	124	124	126	126	126	126	116	116	104	99	109	119	119	119	119	119	112	104	94	104	114	114	114	114	114	114	114	114	114	114	
Warangal	124	124	124	126	126	126	126	116	116	104	99	109	119	119	119	119	119	112	104	94	104	114	114	114	114	114	114	114	114	114	114	
Mahaboobnagar	124	124	124	126	126	126	126	116	116	104	99	109	119	119	119	119	119	112	104	94	104	114	114	114	114	114	114	114	114	114	114	114
Kurnool	124	124	124	126	126	126	126	116	116	104	99	109	119	119	119	119	119	112	104	94	104	114	114	114	114	114	114	114	114	114	114	114
Vizag	120	120	120	120	120	120	120	120	120	115	115	125	125	125	125	125	115	110	102	97	102	107	107	107	107	107	107	107	107	107	107	102
Godavari	125	125	125	127	127	127	127	127	127	117	117	127	132	132	132	132	122	115	107	102	102	107	117	117	117	117	117	117	117	117	117	112
Vijayawada	125	125	125	127	127	127	127	127	127	117	117	127	132	132	132	132	122	115	107	102	102	107	117	117	117	117	117	117	117	117	117	112
Guntur	125	125	125	130	130	132	132	127	127	117	117	127	132	132	132	132	122	115	111	106	106	111	117	117	117	117	117	117	117	117	117	112
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Nammakal	106	106	108	112	113	113	113	113	113	113	108	103	103	103	103	103	103	103	103	103	96	96	96	96	97	97	102	102	104	104	99	

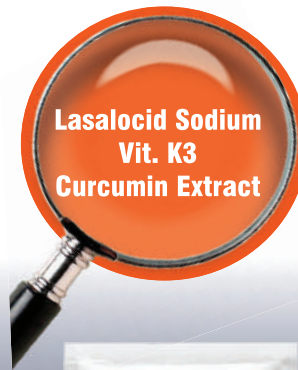
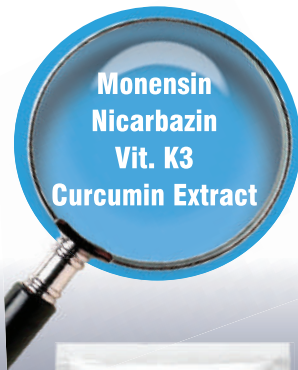
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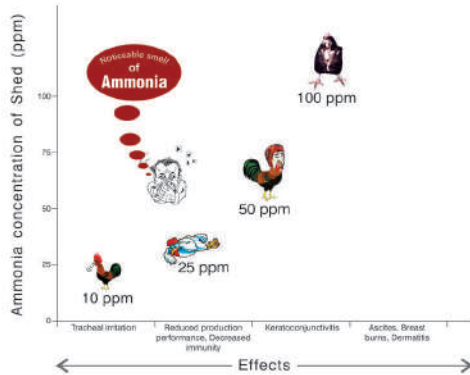
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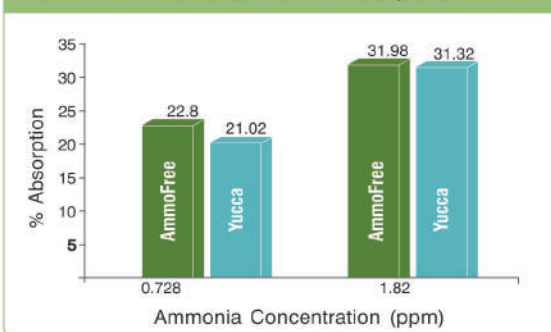
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Effect of AmmoFree and Yucca extract on absorption of ammonia



Effect of AmmoFree* at broiler farm in winter (14° - 15°C) with noticeable ammonia concentration

Group	Livability (%)	Birds showing respiratory discomfort	Faecal NH3 (g/kg dry faeces)	
			Day 21	Day 42
Control	95.00	7	3.86	3.92 (+1.55%)
AmmoFree 200g/ton	96.67	X	3.95	2.71 (-45.75%)

Trial at Commercial Poultry Farm under technical guidance of Dr. Rama Subba Reddy

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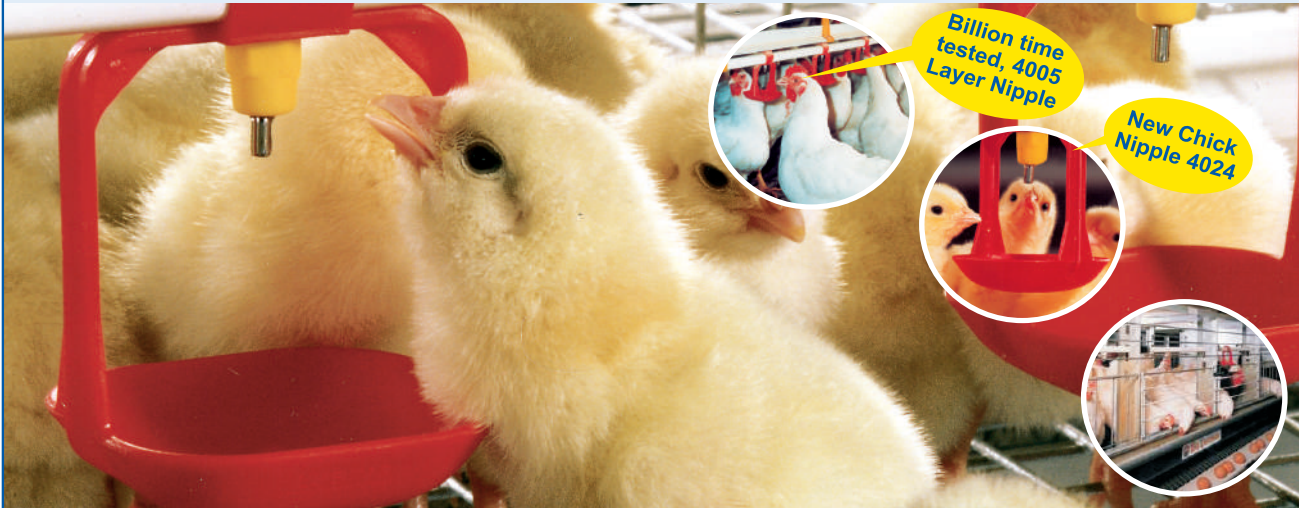
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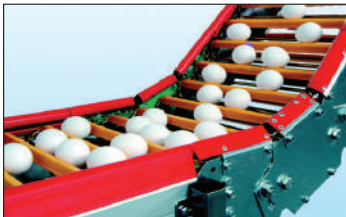
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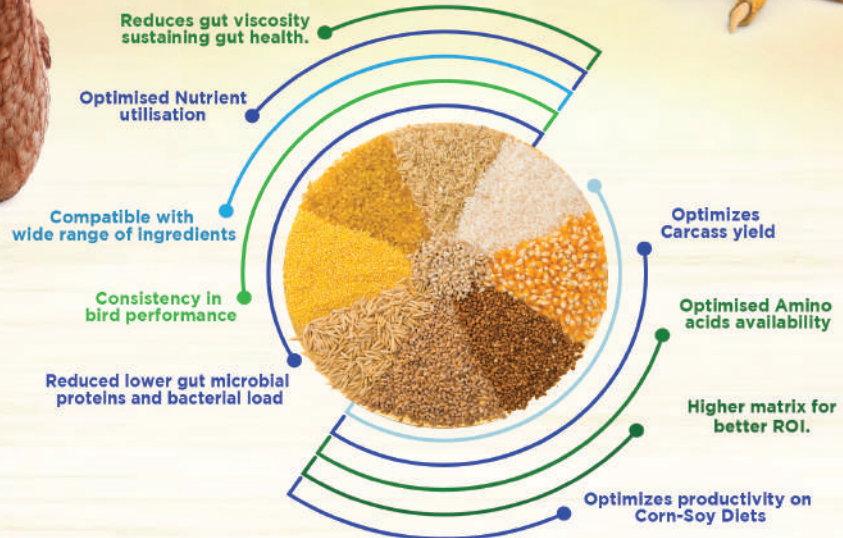
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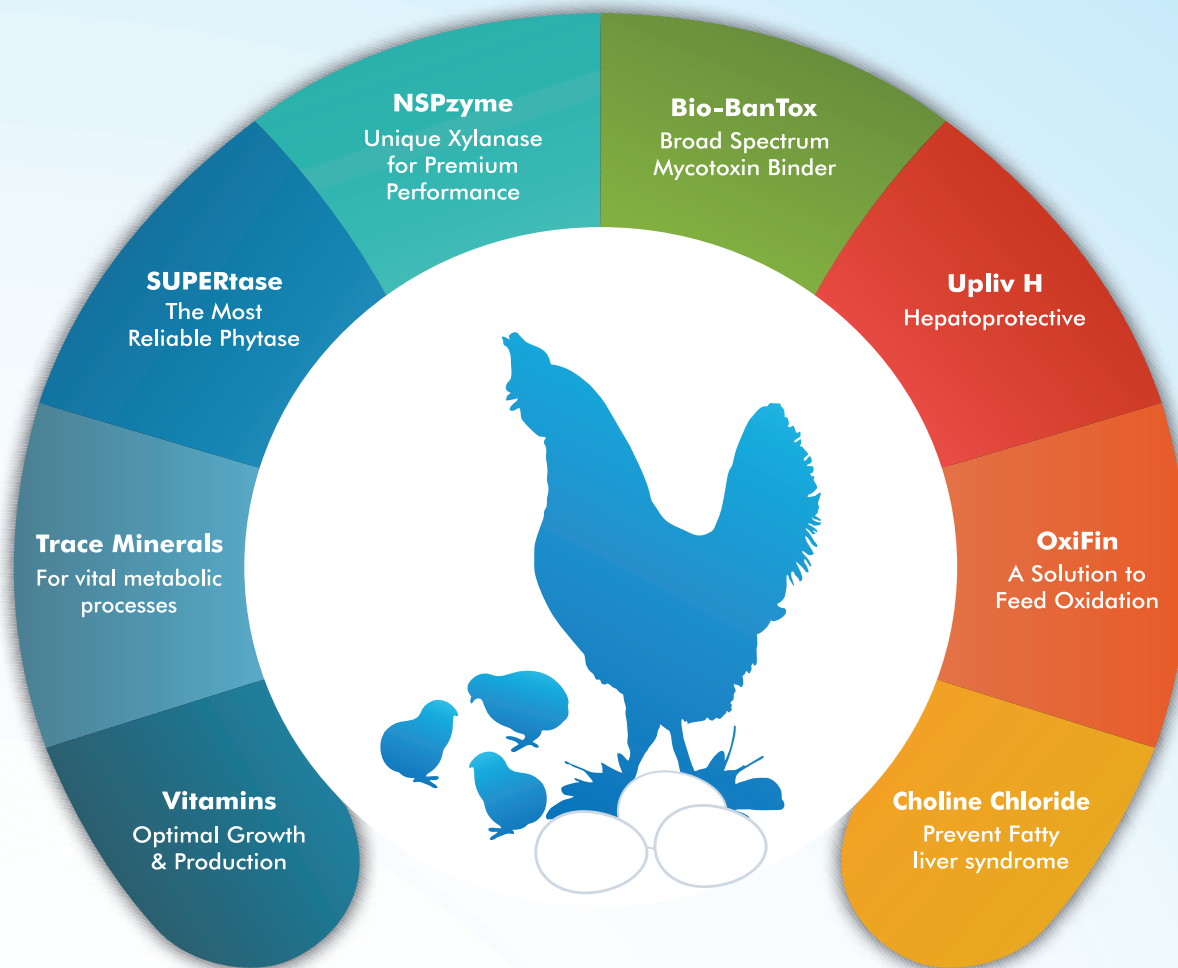
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Venkateshwara B V Bio-Corp Private Limited organised Technical seminar on “Broiler Breeder Nutrition and VCOMIX (5 % Composite Premix)”.

VENKATESHWARA BV BIO-CORP PVT LTD organized Technical seminar for Broiler Breeder Farmers on Tuesday 7th November, 2023 at Ajmer and Wednesday 8th November 2023 at Jaipur Rajasthan. This technical seminar was attended by Broiler Breeder farmers in both areas .

Mr Deepak Khosla (GM Marketing) Venky's given the welcome address and shared his thoughts regarding broiler breeder scenario in Rajasthan and pan India.

The speaker for this seminar, Dr. Sunil Nadgauda (DGM Technical) explained in detail about the “Broiler Breeder Nutrition and VComix (5% Composite Premix For Broiler Breeder) During his speech he advised regarding quality parameters to be considered while selecting the different feed ingredients. The snippets from his presentation can be summarized as below.

- Broiler breeder nutrition review and current nutritional recommendation for better productivity.
- Importance of Chicks nutrition for good start of the flock.
- Importance of nutrition to maintain body weight in growing period and its impact on laying performance.
- Early Laying Female Nutrition to maximize peak production and to maintain the consistency during peak period.

- Explain Phase wise feeding – to maintain egg production after peak period and optimize the efficiency.
- Maintaining the egg shell quality to achieve maximum number of hatching eggs selection.
- Significance of Male feed to achieve good fertility and hatchability,
- VComix (5% Composite Premix For Broiler Breeder) is good alternative to provide balanced nutrition to improve the productivity.
- VComix - Innovative premix solution for simplifying the feed manufacturing process and also to avoid errors during feed production.
- VComix – Ensures completely balanced nutrition and Enhances health and productivity,

Dr Sunil Nadgauda answered the queries of the attendees related to the subject and other technical queries regarding broiler breeder nutrition and management.

The Technical Seminar was attended by around 18 Broiler Breeder farmers surrounding the Jaipur and Ajmer area.

Mr Shashi Bhushan (Zonal Manager) proposed vote of thanks to all. The local Venworld Team organised this technical seminar.



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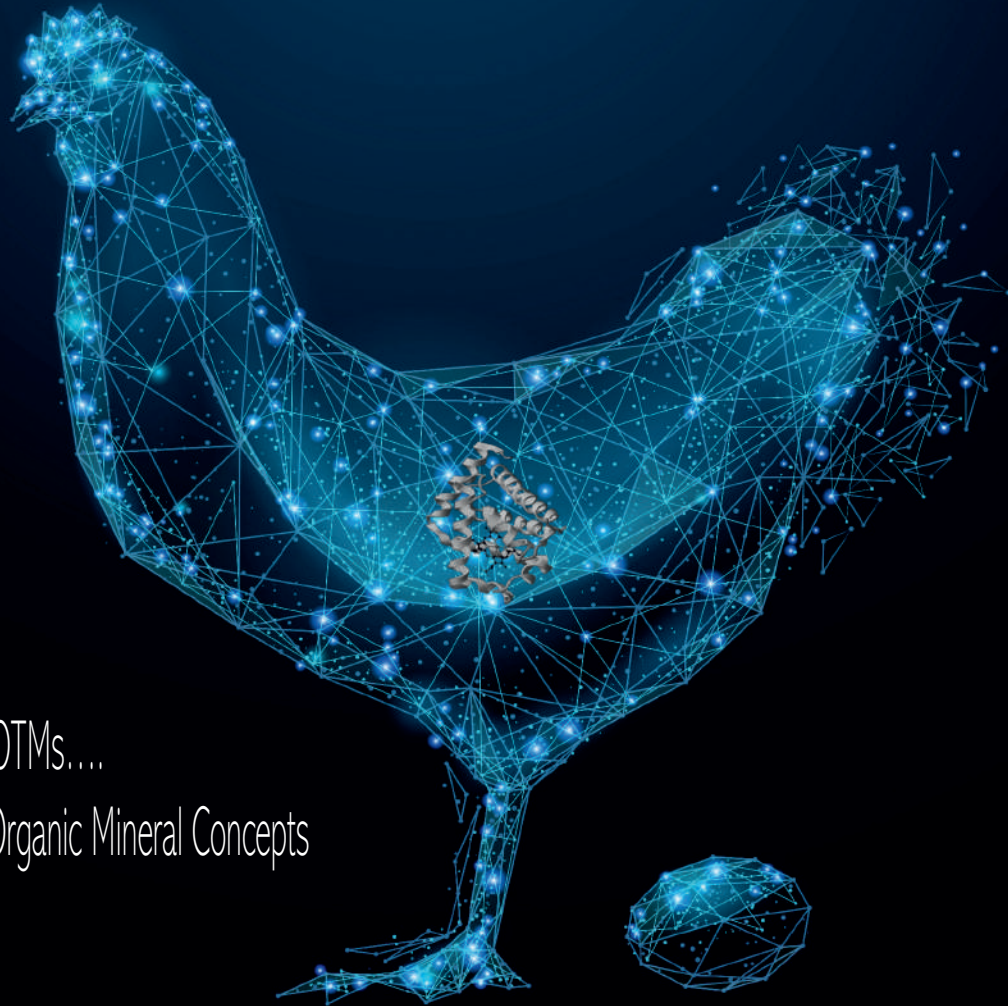


NATIONAL EGG CO-ORDINATION COMMITTEE

DAILY/MONTHLY EGG PRICES SUGGESTED BY NECC AND PREVAILING PRICES AT VARIOUS PRODUCTION CENTRES (PC) AND CONSUMPTION CENTRE (CC)

Name Of Zone / District	NECC SUGGESTED EGG PRICES																														Average			
	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				
Ahmedabad	565	565	565	565	565	565	565	565	570	570	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	575	
Ajmer	535	521	521	521	523	526	526	531	531	531	533	536	536	536	536	535	535	537	540	540	540	540	540	540	540	540	540	540	540	548	551	-	532.9	
Barwala	537	520	520	520	520	523	523	525	525	525	527	530	530	530	530	533	533	533	536	536	536	536	536	536	536	536	536	536	538	541	541	528.9		
Bengaluru (CC)	565	565	565	565	565	565	565	575	580	585	595	595	595	595	595	595	595	595	595	595	595	595	595	595	595	595	595	595	595	595	595	595	574.83	
Brahmapur (OD)	552	552	532	532	532	537	537	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	548	548	539.73			
Chennai (CC)	580	580	580	580	580	590	590	600	600	600	610	610	610	610	610	610	610	610	610	610	610	610	610	610	610	610	610	610	610	610	610	610	590	
Chittoor	573	573	573	573	573	583	583	593	593	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	603	583	
Delhi (CC)	557	557	540	540	540	540	545	545	545	545	545	545	545	545	545	545	545	545	545	545	545	545	545	545	545	545	545	545	545	545	545	545	583	
E.Godavari	536	536	520	520	520	520	525	525	530	530	530	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	527.07	
Hospet	525	525	525	525	525	525	525	535	540	545	555	555	555	555	555	555	555	555	555	555	555	555	555	555	555	555	555	555	555	555	555	555	534.83	
Hyderabad	524	510	500	500	505	510	515	520	525	530	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	520.66	
Jabalpur	540	540	540	530	535	540	545	545	550	555	560	565	565	565	565	565	565	565	565	565	565	565	565	565	565	565	565	565	565	565	565	565	549.31	
Kolkata (WB)	587	572	562	562	562	565	565	565	590	590	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	581	
Ludhiana	540	540	526	520	520	520	523	523	523	523	523	523	523	523	523	523	523	523	523	523	523	523	523	523	523	523	523	523	523	523	523	523	528.43	
Mumbai (CC)	590	590	575	575	575	575	575	580	585	590	595	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	588.17
Mysuru	570	570	570	570	570	570	578	583	588	595	595	595	595	595	595	595	595	595	595	595	595	595	595	595	595	595	595	595	595	595	595	595	576.13	
Namakkal	520	525	525	525	525	530	535	540	545	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	550	527.67	
Pune	585	585	575	575	575	580	580	585	585	590	595	601	601	601	601	601	601	601	601	601	601	601	601	601	601	601	601	601	601	601	601	601	601	587.5
Raipur	533	528	515	515	515	525	530	530	530	535	535	550	550	550	553	553	553	540	543	546	550	550	550	550	550	550	550	550	550	550	550	550	550	535.41
Surat	570	570	570	570	570	570	570	575	580	585	590	595	595	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	585
Vijayawada	536	536	520	520	520	525	525	525	530	530	530	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	527.07	
Vizag	540	540	520	520	520	525	525	530	535	535	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	540	530.17	
W.Godavari	536	536	520	520	520	525	525	525	530	530	530	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	535	527.07	
Warangal	526	512	502	502	507	512	517	522	527	532	537	537	537	537	537	537	537	537	537	537	537	537	537	537	537	537	537	537	537	537	537	537	527.66	

Prevailing Prices																																		
Allahabad (CC)	581	581	571	562	567	571	571	576	576	576	581	581	586	590	590	586	586	586	586	590	590	590	581	571	562	562	567	571	581	581	581	581	578.17	
Bhopal	540	540	525	525	535	535	535	540	545	545	545	555	560	560	560	545	545	545	545	550	555	560	560	555	540	540	540	540	540	540	540	540	545.69	
Indore (CC)	555	540	540	540	550	550	555	560	565	565	570	570	570	570	570	560	560	560	560	565	565	560	550	540	540	540	540	540	540	540	540	540	540	555.69
Kanpur (CC)	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	580.6
Luknow (CC)	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	597.67
Muzaffarpur (CC)	595	580	580	580	580	580	585	585	585	585	585	590	590	590	590	590	590	590	590	595	595	600	600	600	580	580	580	585	590	600	603	603	589.2	
Nagpur	550	550	550	540	540	540	540	560	560	560	570	570	570	570	570	570	570	570	570	575	575	575	575	565	565	565	565	565	565	565	565	565	561.72	
Patna	595	580	580	580	580	580	585	585	585	585	585	590	590	590	590	590	590	590	595	595	600	600	600	580	580	580	585	590	600	603	603	589.2		
Ranchi (CC)	590	590	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	581	584.8
Varanasi (CC)	600	600	583	580	580	580	590	593	593	593	583	590	590	590	590	590	590	590	597	597	600	600	590	583	583	583	583	583	593	597	600	600	591.5	



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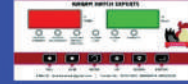
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Potential Use of Seaweed in Poultry Feed

Dr. Priyanka Kumari¹, Dr. Mankhiar Pranit Vijay¹ and Dr. Pankaj Kumar Singh²

Department of Animal Nutrition, Bihar Veterinary College, Bihar Animal Sciences University, Patna, Bihar, India-800014

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Introduction

Seaweeds (known as marine algae) are macroscopic and multicellular, marine algae which generally reside in the littoral zone. Seaweeds are simple organisms, which are able to take advantage of sunlight to convert carbon dioxide into sugars and oxygen, during the photosynthesis process. Seaweeds often form dense growth on rocky source or accumulation in shallow water. Seaweeds include brown algae (Phaeophyceae), red algae (Rhodophyceae) and green algae (Chlorophyceae). They are of many different shapes, sizes, colours and composition and occupy various habitats. Many seaweeds species are used in medicine, human diet and fertilizer (Jamal et al., 2017). The brown seaweeds are traditionally used for treating thyroid, goiter, as they are richest source of iodine. Seaweeds are valuable source of protein, amino acids, dietary fibre and minerals. Seaweeds are markedly rich in organic minerals, complex carbohydrates, protein and low molecular weight of nitrogenous compounds, lipids, vitamins, volatile compound and pigments (Makkar et al., 2016). They also contain biologically active compounds like galactans, alginate, laminarin, omega-3 fatty acids, florotannin etc.

Seaweeds are used as feed additive in poultry because it improves immune status of poultry (Wang et al., 2013) and decreases the microbial load in the digestive tract (Morais et al., 2020). It has a beneficial effect on meat and egg production. Supplementation of layer poultry feed with seaweeds can be used to enhance the level of vitamins, minerals and fatty acids, mainly omega-3-fatty acids. So, it helps in production of designer egg. There is a growing scope of seaweeds based application in foods, agriculture, fertilizers, biofuel, pharmaceuticals, nutraceuticals, animal feed additive etc. (Hafting et al., 2015).

Nutritional Value of Seaweeds

Seaweeds have a highly variable composition, with large differences in proteins, minerals, lipids and fibre (Table 1), which depends on the species, time of collection and habitat, and on external conditions such as water temperature, light intensity and nutrient concentration in water. Seaweeds are valuable source of protein. Algae have a relatively high protein quality compared to cereal and soyabean. More than 75% of seaweed has higher proportions of total essential amino acids than maize, rice, wheat and soyabean. The proportion of essential amino acids like methionine and lysine are comparable to traditional protein sources. On the other hand, algae have a lower proportion of lysine than soy and wheat flour (Maehre et al., 2014). Algae contain high level of non-protein nitrogen such as free nitrates (Misurcova et al., 2011). Algae have high protein quality compared to cereals and soy flour. Seaweeds are rich in minerals like potassium, sodium, calcium, magnesium, phosphorus iron, manganese, copper, zinc, cobalt, selenium and iodine (Corino et al., 2019). Seaweed contains 10 to 20 times more minerals than land plants. (Makkar et al., 2016). The high mineral content of seaweeds is due to their ability to absorb inorganic substance from the environment. They have been used as an additive to livestock feeds because they are richest source of minerals. They are also excellent source of vitamin such as A, B1, B12, C, D and vit. E, folic acid (Azenha, 2017).

Seaweeds contain small amount of lipids, mainly polyunsaturated fatty acid (Misurcova et al., 2011). They contain a high total dietary fiber. Seaweeds are particularly rich in soluble dietary fiber which accounts for 26-38%, 9-37% and 17-24% in brown, red and green seaweed respectively. The main seaweed polysaccharides are laminarin, fucoidans, agar, carrageenans, porphyran, ulvans and alginates (Haberecht et al., 2017). From economic prospective, seaweeds polysaccharides are the most important products produced from seaweeds.

Seaweed mainly contains high levels of glutamic acid, present in both free and protein-bound forms, contributing to typical flavor known as umami. They also contain various bioactive amino acids and peptides, such as taurine, carnosine and glutathione (Øverland et al, 2019).

Nutritional Profile of Sea weeds (Holdt et al.,2011)

Parameters	Green seaweed	Brown seaweed	Red seaweed
Protein(%)	10-25	5-15	10-30
Ash(%)	21-39	27-36	8-21
Dietary fiber(%)	40-45	30-40	10-35
Carbohydrate(%)	50-58	50-60	45-68
Lipid(%)	0.3-4.2	0.5-1.9	0.7-3.3
Na(mg)	3000-4000	2500-4000	1200-4000
K(mg)	700-1000	2500-4000	1300-3000
P(mg)	140-210	200-300	130-240
Ca(mg)	780-1874	700-1000	400-1100
Mg(mg)	630-1650	400-600	300-700

Use of Seaweeds in Poultry Feed

Seaweed biomass is a valuable alternative ingredient for livestock and poultry. Seaweeds have been used in poultry to improve growth performance, product quality, immune status, to decrease microbial load in digestive tract, and for their beneficial effect on quality of poultry meat and eggs.

Broiler Chicken

Supplementation of chicken's basal diet with 4% seaweed (green algae) increased body weight gain. Dietary inclusion of 2% sea weed in the broiler improved performance and dressing percentage (Gu et al.,2021). Green seaweed *Enteromorpha prolifera* fed to broilers at inclusion rates ranging from 2% to 4% provided best nutrient availability and high apparent metabolizable energy. It had a positive effect on feed intake, feed conversion ratio and average daily gain while reducing abdominal and subcutaneous fat thickness, thus improving breast meat quality. Generally, seaweeds positively influence meat quality which is improved as a consequence of reduction in fat. Chicken fed on the feed containing seaweed had higher body weight and lower amount of fat and higher of protein. Enrich broiler feed with green seaweeds, or a mixture of green and red seaweed, it will stimulate both the growth and health of the broilers. The dietary supplementation of spirulina in broiler diet affected the fatty acid composition of the broiler meat without significant negative impact on performance parameters and meat oxidative stability.

Red seaweed has possible prebiotic action due to presence of bioactive compounds, such as agars, carrageenans, xylans, sulphated galactans and porphyrins (Wijesekara et al., 2011). It was found that the red seaweed species included in the meal of broiler chicken showed an increase in the population of beneficial bacteria and a reduction of pathogenic bacteria in the gut, improvement in villi height, crypt depth, and an increase in the concentration of short chain fatty acids (Tellez et al., 2012). However, further study is needed to determine such mechanisms.

Layer Feed

Supplementation of layer feed with seaweeds, which can be used to enhance the level of vitamins, minerals and fatty acids, mainly omega-3-fatty acids. Green algae from the genus *Ulva*, with the inclusion of 1-3% of the seaweed resulting in increase in egg production and quality increasing the weight, shell thickness and reduced egg cholesterol. (Makkar et al.,2016). Due to the high iodine content of seaweed powder, adding 5% seaweed powder to the diet of laying hens and feeding for 7-15 days can produce high-iodine eggs. The seaweed extract also reduced *E. coli* load in faeces, which suggests better health of the layer. (Makkar et al.,2016). Reducing the level of this bacterium is vital to produce safer eggs and reduce the spread of salmonellosis to humans. A greater reduction of negative effects was observed on layer growth and egg production caused by *Salmonella enteritidis* with red seaweed at the 4% diet (Tellez et al.2012).

Use of brown seaweed like *Sargassum* species at 3-6% dietary level in laying hens improved egg quality, decreased yolk cholesterol, triglycerides and omega-3-fatty acids and increased carotene and lutein content. Poultry feed with boiled sea weed resulted in improvement of high density lipoprotein, which is beneficial to human health (Al-Harthi et al.,2012).

Limitations

- The inclusion of substantial percentage of seaweed in animal diet or poultry diet is hampered due to high content of ash and poorly digestible carbohydrate.
- Algae have lower lysine than soy and wheat flour. (Maehre et al., 2014)
- They also contain heavy metals, and some minerals are toxic in concentration that may interfere with availability of other minerals.
- High cost of production
- Limited shelf life

Summary

There is a shortage of animal feed and fodder, therefore, there is need to use alternative feed resources. Seaweeds are macroscopic, multicellular, marine algae which generally reside in littoral zone. Seaweeds are fast growing, high biomass yielding and free of charge productivity to other conventional feed ingredient like maize or soyabean. Seaweeds are rich in protein (11-46%), dietary fiber and phytochemicals. Seaweed has anti-viral, anticoagulant, antihyperlipidemic immunostimulating and antioxidative effect. Thus, seaweedshavegreat potential as feed resources for livestock and poultry.

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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.
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- Nutrition (Feed Formulations).
- Breeder Management.
- Sales & Marketing of Day-Old commercial Layer chicks, Broiler chicks & Poultry Feed.
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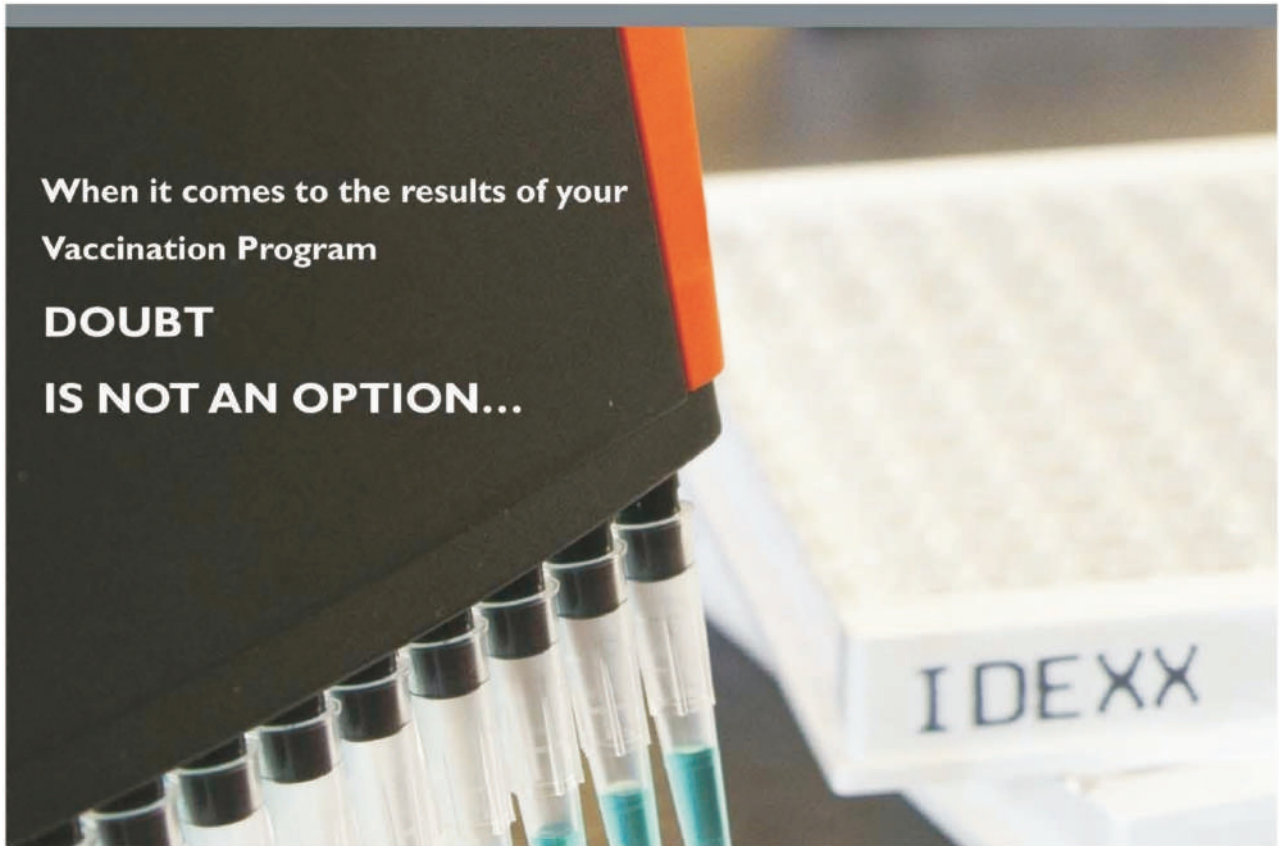
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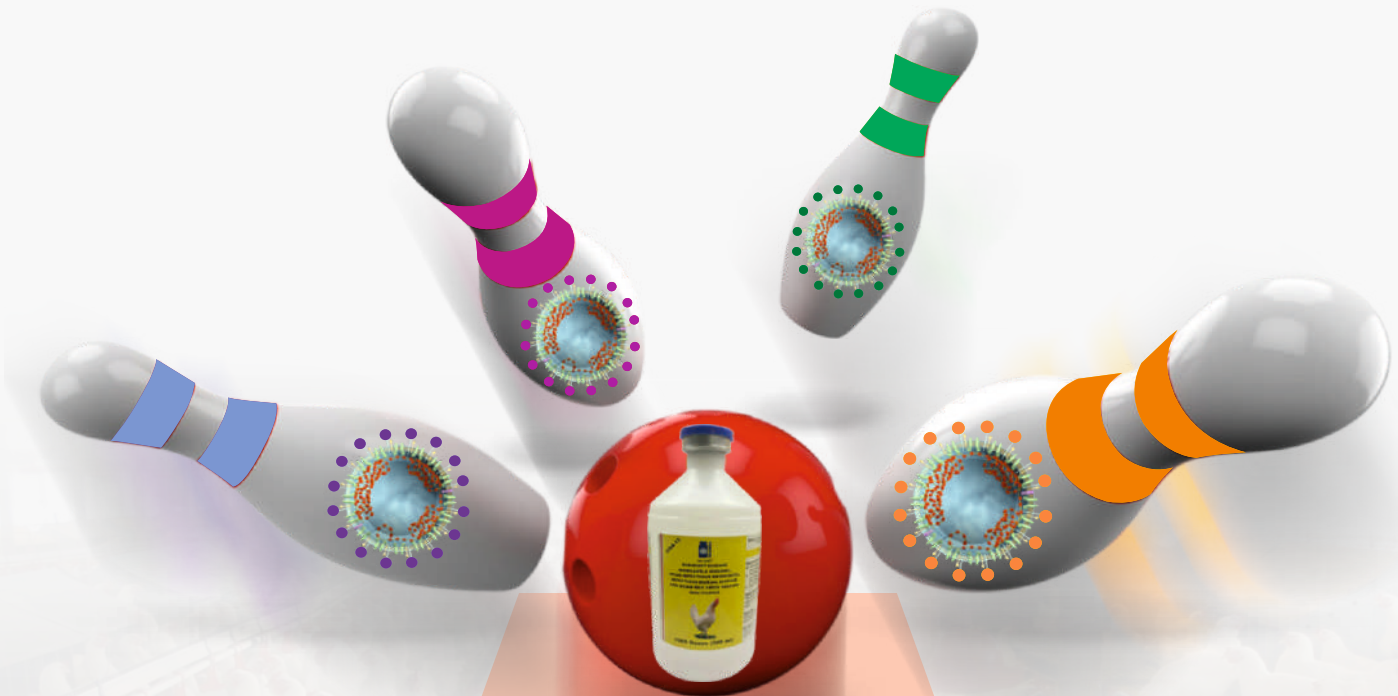
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