

VENCOBB430Y

Broiler

Performance &
Nutrition Supplement



2025



Venkateshwara Hatcheries Pvt. Limited

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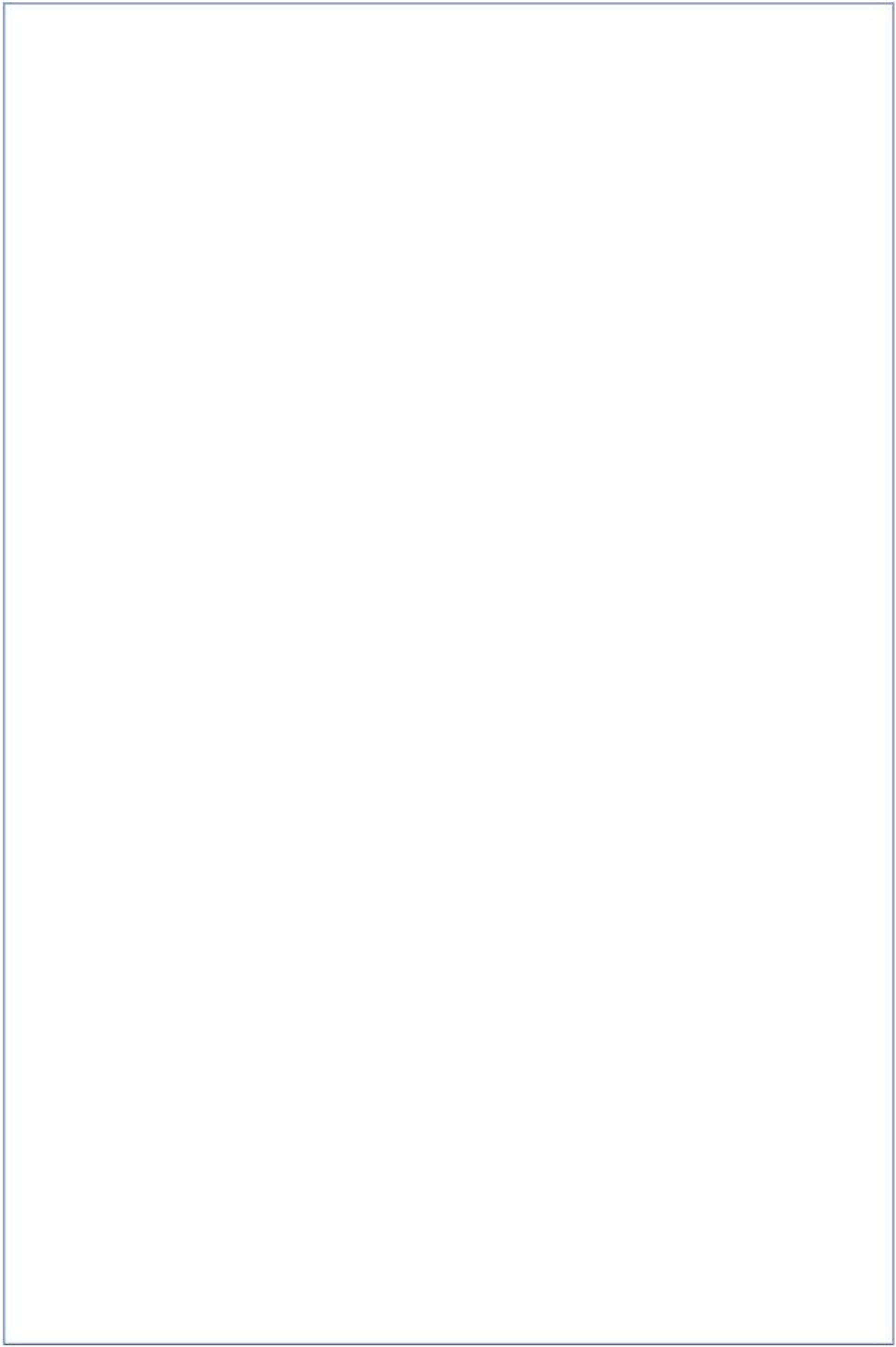
Introduction

Venco Research and Breeding Farm Private Limited was established in India in the year 1980 as a joint venture between Cobb-Vantress, Inc, USA and Venkateshwara Hatcheries Private Limited India. The objective was to undertake Primary Poultry Breeding Activity of Broilers in India with the technical help from Cobb-Vantress, Inc USA, to produce Broiler bird most suitable to tropical climate, feeding, housing and husbandry practices being followed in Indian sub-continent. The product of this broiler breeding program being carried out for more than last four decades at Venco is named "VENCOBB".

Over the years the Vencobb has performed well both as a Breeder and Broiler and well known for its Robustness. It has acquired the reputation of being the best of its kind, achieved more than 75% of the Indian market share two decades ago and continue to scale new heights year after year. The present market demands broiler that grow efficiently, that has good liveability, best feed conversion ability, good meat yield and good animal welfare characteristics. Venco, in addition to producing broiler genetics which meets current market demand, its product VENCOBB also has better skeletal strength as well as best uniformity in body weight.

This supplement presents broiler performance targets along with recommendations on nutritional specifications designed to enable achieve these targets. The body weight targets, and feed conversion ratios are arrived at based on experience garnered by producing Vencobb430Y broilers in varied climatic conditions and operating environments in different regions of India in last two years.

The data presented in this supplement is meant to be a guide only and in no way, it should be taken as a guarantee or warrantee of performance.





BE VOCAL FOR LOCAL AS
LOCAL IS
The Best

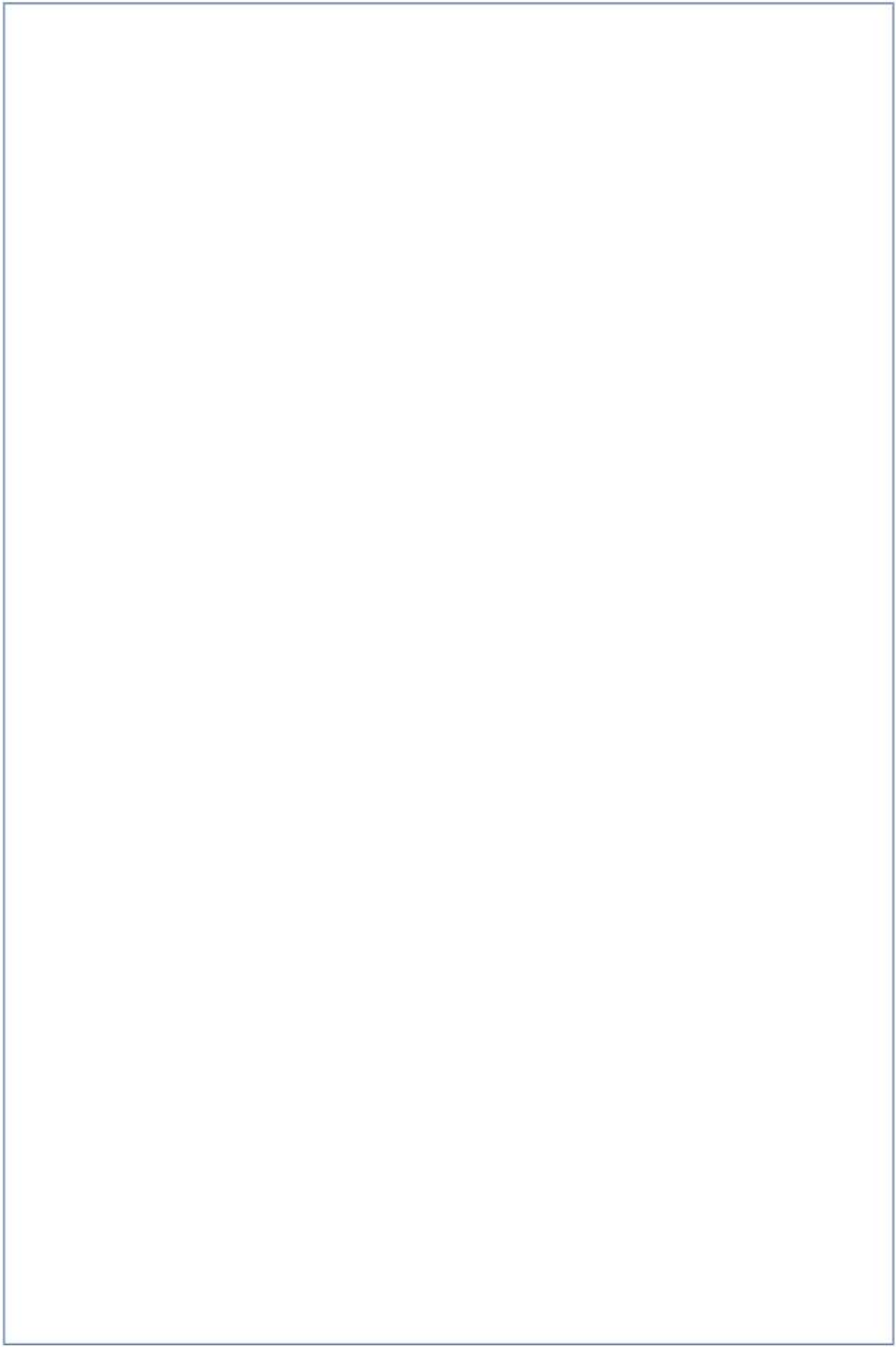
VENCOBB



**Selected and Bred in the Indian Agroclimatic
Conditions for over 4 decades**

VENCOBB

Nurtured by Nature, Perfected by Science.



VENCOBB430Y

THE EXCELLENT FEED CONVERTOR
AND EFFICIENT MEAT PRODUCER



- Broiler Bird Bred For Tropical Climate
 - Best Livability
 - Lowest Feed Conversion Ratio
 - Superior Performance even in Low Density Feed
- Excellent Growth Rate
 - Best Uniformity for Processing
 - Highest Meat yield with Breast Meat

BROILERS (STRAIGHT RUN)

AGE IN DAYS	MORTALITY %	BODY WT. (gms)	WEEKLY WEIGHT GAIN (gms)	WEEKLY FEED CONSUMPTION (gms)	CUMULATIVE FEED CONSUMPTION (gms)	CUMULATIVE FCR
7	0.75	210	170	165	165	0.79
14	1.25	510	300	350	515	1.01
21	1.75	990	480	610	1125	1.14
28	2.25	1610	620	908	2033	1.26
35	2.75	2260	650	1154	3187	1.41
42	3.25	2950	690	1380	4567	1.55

PERFORMANCE OBJECTIVES VENCobb430Y

DAY	WKLY MORT.%	BODY WEIGHT FOR AGE (GRAMS)	AVERAGE DAILY GAIN (GRAMS)	FEED CONSUMPTION (GRAMS)		CUM. F.C.R.
				PER DAY	CUMULATIVE	
0		40				
1				15	15	
2				18	33	
3				20	53	
4				23	76	
5				26	102	
6				30	132	
7				33	165	
1st Week	0.75	210	24	165	165	0.79
8				37	202	
9				41	243	
10				45	288	
11				49	337	
12				54	391	
13				59	450	
14				65	515	
2nd Week	1.25	510	43	350	515	1.01
15				70	585	
16				75	660	
17				80	740	
18				86	826	
19				93	919	
20				99	1018	
21				107	1125	
3rd Week	1.75	990	68	610	1125	1.14
22				112	1237	
23				118	1355	
24				124	1479	
25				130	1609	
26				135	1744	
27				141	1885	
28				148	2033	
4thWeek	2.25	1610	89	908	2033	1.26
29				154	2187	
30				158	2345	
31				161	2506	
32				165	2671	
33				168	2839	
34				172	3011	
35				176	3187	
5th Week	2.75	2260	93	1154	3187	1.41
36				181	3368	
37				186	3554	
38				192	3746	
39				197	3943	
40				203	4146	
41				208	4354	
42				213	4567	
6thWeek	3.25	2950	99	1380	4567	1.55

RECOMMENDED NUTRIENTS FOR VENCobb430Y

		PRE-STARTER	STARTER	FINISHER 1	FINISHER 2
FEEDING AMOUNT	Grams	400	1200	2150	AS PER THE NEED
FEEDING PERIOD	Days	1-12 DAYS	13 -25 DAYS	26 - 38 DAYS	> 38 DAYS
FEED STRUCTURE		CRUMBLE	CRUMBLE	PELLET	PELLET

METABOLISABLE ENERGY	Kcal/Kg	2950 - 3000	3050- 3100	3150 - 3200	3250
CRUDE PROTEIN	%	22	21	19.5	19

AMINO ACIDS		Digestible	Digestible	Digestible	Digestible
Lysine	%	1.28	1.15	1.06	0.95
Methionine	%	0.67	0.62	0.59	0.53
Methionine + Cystine	%	0.94	0.87	0.82	0.74
Tryptophane	%	0.22	0.21	0.19	0.17
Threonine	%	0.86	0.79	0.73	0.66
Arginine	%	1.38	1.27	1.18	1.06
Valine	%	0.89	0.86	0.80	0.72
Isoleucine	%	0.81	0.78	0.72	0.65

MINERALS					
Calcium	%	0.96	0.85	0.74	0.74
Available Phosphorus	%	0.58	0.40	0.36	0.36
Sodium	%	0.17-0.22	0.17-0.22	0.17-0.22	0.17 - 0.22
Chloride	%	0.17 – 0.24	0.17 – 0.24	0.17 – 0.24	0.17 – 0.24
Potassium	%	0.60 - 0.95	0.60 - 0.95	0.60 - 0.95	0.60 - 0.95

TRACE MINERALS					
Copper	gm/Tonne	20	20	20	20
Iodine	gm/Tonne	1	1	1	1
Iron	gm/Tonne	60	60	60	60
Manganese	gm/Tonne	100	100	100	100
Selenium	gm/Tonne	0.40	0.40	0.40	0.40
Zinc	gm/Tonne	100	100	100	100

PROPORTION OF INORGANIC & ORGANIC TRACE MINERALS

TRACE MINERALS	Inorganic %	Organic %
Copper	50	50
Iodine	50	50
Iron	50	50
Manganese	70	30
Selenium	0	100
Zinc	70	30

BALANCED DIGESTIBLE AMINO ACID RATIOS

AMINO ACIDS	PRE-STARTER	STARTER	FINISHER 1	FINISHER 2
	%	%	%	%
Lysine	100	100	100	100
Methionine	52	54	56	56
Methionine + Cystine	74	76	77	78
Tryptophane	17	18	18	18
Threonine	67	69	69	69
Arginine	108	110	111	111
Valine	69	74	76	76
Isoleucine	63	67	68	68

SUPPLEMENTARY LEVELS VITAMINS AND
TRACE ELEMENTS (per tonne of feed)

VITAMIN	UNIT	PRE-STARTER	STARTER	FINISHER 1 & 2
Vitamin A	MIU	15.0	13.5	11.0
Vitamin D3	MIU	5.5	5.0	4.5
Vitamin E	KIU	80.0	60.0	50.0
Vitamin K	grams	4.0	3.5	3.0
Vitamin B1	grams	4.0	3.5	3.0
Vitamin B2	grams	9.0	8.0	6.0
Vitamin B3	grams	60.0	50.0	50.0
Vitamin B5	grams	15.0	12.0	10.0
Vitamin B6	grams	4.0	3.5	3.0
Vitamin B9	grams	2.0	2.0	1.5
Vitamin B12	mg	20.0	15.0	15.0
Biotin	mg	250.0	200.0	150.0
Choline	grams	1600.0	1500.0	1200.0

1. In this performance and nutrition supplement, it is recommended to provide 400 grams of pre-starter feed and 1200 grams of starter feed, as this combination supports Vencobb in achieving a weight gain of 1200 grams by 25 days of age, while minimizing feed costs per unit of live weight.
2. Finisher-1 feed of 2150 grams is advised, as the marketable weight of broilers in India typically ranges from 2.1 to 2.5 kg, which Vencobb can easily reach within 34 to 38 days of age, ensuring the least production cost per unit of live weight.
3. Recommended metabolizable energy (M.E.) is for pellet and pellet-crumble feed. The metabolizable energy (M.E.) may be increased by 50 – 75 K. Cal / kg of feed when using mash feed.
4. For efficient Vencobb broiler production, the following guidelines are recommended.
 - a) Use pre-starter and starter feed in pellet-crumbled form, and finisher feed in pellet form.
 - b) Avoid using a combination of pellet-crumbled pre-starter followed by mash as starter and finisher feed.
 - c) Oral supplementation of chicks with natural microflora-containing supplements at day old aids in antibiotic-free chicken farming and helps in keeping litter clean.
 - d) Supplementing probiotics (through feed) with additional properties to produce digestive enzymes enhances digestion, microbiota balance, and intestinal barrier protection.
 - e) Limit the addition of sodium bicarbonate to 500 grams per tonne of feed in pre-starter, and 1500 grams in starter and finisher feeds.
 - f) Incorporate feed acidifiers and toxin binders from reliable sources at the recommended dosages.
 - g) Addition of phytase (with matrix value) and cocktail enzymes from reputable sources aid in better digestibility. It helps to maintain litter quality as well.
 - h) Utilize a combination of inorganic and organic trace minerals in the proportions of 0:100 for selenium, 70:30 for manganese and zinc, and 50:50 for copper, iron, and iodine to enhance nutrient utilization.
 - i) Alternatively, consider adding 300 grams of organic trace minerals mix from an authentic source as a top-up.
 - j) Rotate proven anti-coccidia compounds from reputable sources and use effective ionophore compounds alone or in combination with chemical compounds during the rainy season or in high humidity to prevent coccidiosis effectively.
 - k) Ensure that feed ingredients are free from mycotoxins, adulterants, and waste

materials that lack nutritive value to maintain high feed quality standards.

- l) A tailor-made feed with a specific amino acid profile, along with a combination of one-stage pre-starter, two-stage starter, and one-stage finisher feed, can lead to higher meat yield at a culling body weight of 2.0 kg and below.
 - m) In markets where meat yield is not a critical factor in determining bird price, a least-cost, low nutrient density feed may be utilized. This approach reduces cost per kg of live weight but may slow down the rate of weight gain.
 - n) Increasing crude protein (CP%) and available essential amino acids by up to 5% from recommended levels can enhance meat yield, although this may result in higher feed costs per kg of live weight. (5% of 22% CP = 1.1%).
 - o) Consider the prices of feed ingredients and bird prices at the farm gate when determining feed nutrient density.
 - p) In corn-soya-based feed formulations, higher levels of methionine supplementation help in achieving the recommended lysine to methionine + cystine (M+C) ratio.
 - q) Incorporating high cystine-containing feed ingredients such as maize/rice gluten meal and rapeseed meal in feed formulations can help reduce supplemental methionine levels while maintaining the lysine to M+C ratio.
 - r) Supplementing with arginine amino acid to achieve the recommended lysine to arginine ratio can help alleviate stress during both summer and winter seasons.
 - s) Increase vitamin and trace mineral supplementation by up to 25% for chicks from younger parent stocks and during severe stress conditions caused by factors such as extreme weather, frequent handling, or severe disease outbreaks.
5. High-quality, high-pro soya de-oiled cake and soya oil-in-cake have gained popularity among poultry nutritionists and integrated operators in recent years.
6. Vencobb is an exceptionally versatile, robust, and flexible bird that offers the best returns on investment when fed according to the recommended nutrition density outlined in this supplement. Additionally, it can achieve higher meat yields when provided with elevated levels of amino acids. For further details, please contact a member of the Vencobb Technical Service team in your respective region.

NOTES

NOTES



**VENCO RESEARCH AND
BREEDING FARM PRIVATE LIMITED**



A Joint - Venture between



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