

NUTRIENT REQUIREMENT IN POULTRY - BIS

Nutrient Recommendation for Broilers, Layers and Breeders as per BIS (Bureau of Indian Standard)

- The following table gives the nutrient recommendation for Broilers and Layers as per BIS (Bureau of Indian Standard)

Nutrient	Broiler Starter (0-6wk)	Broiler Finisher (6-9wk)	Chicks (0-8 wk)	Grower (8-20wk)	Layer (20-80wk)	Breeder (20-80wk)
Moisture max %	11	11	11	11	11	11
Metabolizable energy ME (kcal/kg)	2,800	2,900	2,600	2,500	2,600	2,600
Crude Protein min %	23	20	20	16	18	18
Crude fibre max %	6	6	7	8	8	8
Acid insoluble ash max %	3	3	4	4	4	4
Salt as (NaCl) Max %	0.6	0.6	0.6	0.6	0.6	0.6
Calcium min %	1.2	1.2	1.0	1.0	3.0	3.0
Available Phosphorus min %	0.5	0.5	0.5	0.5	0.5	0.5
Lysine min %	1.2	1.0	0.9	0.6	0.65	0.65
Methionine min %	0.5	0.35	0.30	0.25	0.30	0.30
Manganese, mg/kg	90	90	90	90	90	90
Vitamin D3, IU/kg	6000	6000	6000	6000	6000	6000
Vitamin E, mg/kg	15	15	15	10	10	10
Vitamin K,	1.0	1.0	1.0	1.0	1.0	1.0

mg/kg						
Riboflavin, mg/kg	6	6	6	3	3	3
Biotin, mg/kg	0.2	0.2	0.2	0.15	0.15	0.15
Choline	1400	1000	1300	900	800	800
Pyridoxine, mg/kg	5	5	5	5	5	5
Aflatoxin, maximum permissible level ppm	50	50	50	50	50	50

BIS specifications (2007).

NUTRIENT REQUIREMENT IN POULTRY - COMPOUNDED LIVESTOCK FEED MANUFACTURERS ASSOCIATION

- The Compounded livestock feed manufacturers association have given their specification for poultry feeds which is given below:

Nutrient Recommendation for Broilers

Characteristic	Broiler starter feed	Broiler finisher feed
Moisture (<i>maximum %</i>)	12	12
Crude protein (<i>minimum %</i>)	20	18
Fat (<i>maximum %</i>)	3	3
Crude fibre (<i>maximum %</i>)	6	5
Acid-insoluble ash (<i>maximum %</i>)	4	4
Metabolizable energy (<i>minimum cal/kg</i>)	2 600	2 700

Nutrient Recommendation for layers

Characteristic	Chick feed	Grower feed	Layer feed, I	Layer feed II
Moisture (<i>maximum %</i>)	12	12	12	12
Crude protein (<i>minimum %</i>)	18	14	16	14
Fat (<i>maximum %</i>)	2	2	2	2
Crude fibre (<i>maximum %</i>)	7	8	8	10
Acid-insoluble ash (<i>maximum %</i>)	4	4	4	4
Metabolizable energy (<i>minimum cal/kg</i>)	2 600	2 300	2 500	2 300

NUTRIENT SPECIFICATIONS COMPARISON

-
- A comparison is made between BIS and CLFMA specifications with regard to the energy and protein requirement for broilers and is illustrated graphically.
 - The BIS energy and protein requirements are on the higher side compared to that of CLFMA specification.
 - A comparison is made between BIS and CLFMA specifications with regard to the energy and protein requirement for layers and is illustrated graphically.
 - The BIS energy and protein requirements are on the higher side compared to that of CLFMA specification for growers and layers.