



## About Laboratory

The Quality Control of Karma Feeds one of the compound animal feeds manufacturer in Bhutan not only involves the authentication of quality standards established for each feed ingredient as it is received into storage in the mill, but also involved the close monitoring of the quality of ingredients through the periods of the storages to usage and during its processing. The efficiency of feed utilization in the livestock and poultry birds and the development of feed industry of a country are dependent upon the quality of feeds. The quality of compounded animal feeds is based on the quality of its constituents i.e. the raw materials (cereal by product, oilseeds meals, marine feeds, agro industrials by product) used to formulate the ratio. Thus to bright between, the quality of both raw materials ,feeds product and performance of animals now a day Quality control became one of the imperative character in and around the globe.

### Quality Control Procedure:

#### ❖ Raw Materials Control

The purpose of quality control of raw materials is to ensure that minimum contract specifications are met.

#### ❖ Process Control

According to the quality control program of efficiency and continuous production and less risk to damage machineries or to carry out good manufacturing process (GMP) of our product and service up to customer satisfaction, this involves three components within the feeds mill: Personal, Machinery and procedural control under process control of feeds manufacturers.

#### ❖ Finished Product Control:

All the finished products are test batch wise before dispatched to ensure customer satisfaction and less risk to product consumers.





### Quantitative Analysis Facilities in Karma Feeds

Sl#	Testing Facilities	Protocol
1	Moisture %	IS:7874 Part I
2	Total Ash%	IS: 7874 Part I
3	Acid Insoluble Ash%	IS: 7874 Part I
4	Calcium%	IS:13433
5	Total Phosphorus%	IS:14828
6	Crude Protein%	IS:7874 Part I
7	True Protein%	Kjeldhal Methods
8	Non-Protein-Nitrogen% (NPN)	Kjeldhal Methods
9	Crude Fat%	IS:7874 Part I
10	Crude Fiber%	IS:7874 Part I
11	Salt%	USP-30
12	Free Fatty Acid Value	IP-2007
13	Acid Value	IP-2007
14	Peroxide Value	IP-2007
15	Gross/Metabolism Energy(ME)kcal/g	Colorimeter Methods
16	Estimation of Multi-mycotoxin	TLC methods
17	Co-efficient of Variation (CV %)	Avitech methods
18	Estimation of Brix in Molasses	None





### Qualitative Analysis facilities in Karma Feeds

Sl#	Testing Facilities	Protocol
1	Detection of Urea	Rapid Test Kit (Avitech, Delhi)
2	Detection of Urease Activity	Rapid Test Kit (Avitech, Delhi)
3	Detection of Leather Meal	Rapid Test Kit (Avitech, Delhi)
4	Detection of Feather Meal	Rapid Test Kit (Avitech, Delhi)
5	Detection of Non-Protein-Nitrogen (NPN)	Rapid Test Kit (Avitech, Delhi)

### Finished Product and its Nutrients Content


## CATTLE FEEDS NUTRIENT CONTENT

Types of Feeds	ME(kcal/g)	Moisture%	CP%	Ca%	P%
Calf Starter	3000	13%	19%	0.6%	0.5%
Cattle Concentrate	2500	13%	18%	0.8%	0.7%
Milk Ration	2890	13%	18%	0.85%	0.75%



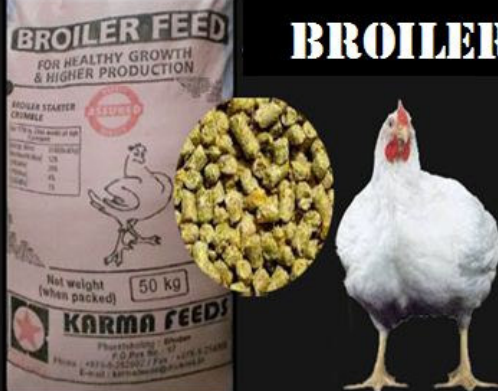


## PIG FEEDS NUTRIENT CONTENT




Types of Feeds	ME(kcal/g)	Moisture%	CP%	Ca%	P%
Creep Feeds	3100	13%	20%	0.9%	0.7%
Pig Starter	3000	13%	18%	0.7%	0.79%
Pig Grower	2900	13%	15%	0.86%	0.7%
Pig Finisher	2800	13%	13%	0.65%	0.7%
Sow Ration	3000	13%	15%	0.89%	0.74%

## BROILER FEEDS NUTRIENT CONTENT



Type of Feeds	ME(kcal/g)	Moisture%	CP%	Ca%	Phos%
Pre-Starter Crumble	3000	12%	22%	1%	0.7%
Starter Crumble	3100	12%	21%	1%	0.7%
Finisher Pellet	3150	12%	19%	1%	0.7%

## LAYER FEEDS NUTRIENTS CONTENT



Type of Feeds	ME(kcal/g)	Moisture%	CP%	Ca%	Phos%
Chick Starter Crumble	2800	12%	18.5%	1%	0.7%
Chicken Grower Crumble	2789	12%	17.5%	1%	0.65%
Layer Pellet	2800	12%	17.5%	4.1%	0.65%

**“WE DO NOT COMPROMISE WITH QUALITY OF FEEDS”**

