



Cyamopsis Biotech

(India) Pvt. Ltd.



Executive Summary

► **Cyamopsis Biotech (India) Pvt. Ltd.**

We, Cyamopsis Biotech (India) Pvt. Ltd., (Formerly known as Dada Ganpati Guar Products Pvt. Ltd.) offer a wide selection of Guar products for your specific requirements. Established in the year 2008, we are one of the leading Manufacturer, Exporter and Supplier of Guar Protein Meal products. We possess a perfect blend of latest technologies and highly qualified technicians to produce a range of quality Guar Protein products.

► **Cultivation Areas**

It is grown principally in north-western India and Pakistan with smaller crops grown in the semiarid areas of the high plains of Texas US, Australia and Africa. On an average India produces 1.2-1.4 MMT of guar annually. In addition to its cultivation in India and Pakistan, the crop is also grown as a cash crop in other parts of the world. For Guar Gum, US is the biggest consumer (60-80%) and for Guar Meal, Europe is the biggest consumer (40-60%). Guar market is increasing steadily (>9% per year).



Mission / Vision

- **Mission-** The company's first commitment is to provide highest quality products and services to a global customer base at competitive prices. To achieve successfully our targets for production and quality, we are looking forward to get the competitive edge in the market. We believe in a " Tradition of Trust".
- **Vision-** "Our ultimate goal is to establish Cyamopsis Biotech as the leading guar meal producing Company in India and build it up as a Global Company that will play a key role in Economic Growth"

**VISION &
MISSION**

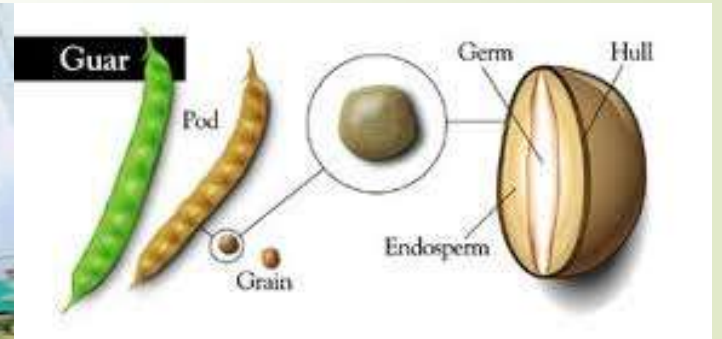




- We buy Guar Seed 'Directly from the Farmers' or from our farms (contract farming).
- We have 'Integrated Unit' to produce all Guar products.



Guar Gum Products



Guar Protein Products



Guar Gum Splits



Guar Gum Powder



Guar Churi



Roasted Korma



Guargum Powder

Gum is derived from guar seeds or cyamopsis tetragonoloba termed as Guar Gum. Guar Gum can also be termed as guaran. These seeds have high low-shear viscosity as evaluated with other hydrocolloids like (locust bean gum). Guar Gums are effective thickeners and stabilizers..

Applications: Oil Industry, Food, Pharmaceuticals, Cosmetics, Textile, Paper, Dairy, Mining & Explosive etc.



Product Catalog:

1) Guar Meal Churi

- * ProNX 35
- * ProNX 40

2) Guar Meal Korma

- * Roasted Guar Korma
- * MicroLam Korma

Product Portfolio

Product Specifications	Product-1 (Guar Meal) CHURI	Product-2 (Roasted Protein Korma)	Product-3 (MicroLam Korma)
Granular Size	FLOUR	GRANULAR FORM	FLOUR
Roasted	YES	YES	YES
Protein Value (DM)	38-42%	56-58%	57-60%



Products

Guar Meal Churi

Guar Meal Churi is having 38-42% of protein. After obtaining from Split process, it is refined, roasted, sterilized with ultra modern technology at our plant. Guar Meal Churi also have good content contents of Oil & Albuminoids (O&A 5-7%). It contains fiber up to 5%. It is also available in flour/powder form. We have enhanced its palatability and digestibility for cattle & other animals. We can customize the product as per of customer's specification too.

- Protein (NX6.25): 38-42%
- Crude Fiber : 4.5 ± 1%Max
- Moisture: 4±1%



Customized Products:

We can also design products as per buyer's specification.

We have Optical Sorting facility also.



Products

Roasted Guar Korma

Roasted Guar Korma is a famous product of Guar Meal range having protein value up to 60% (DM). It is processed with utmost hygiene to maintain the palatability & digestibility. Sterilization & Roasting are the key factor while processing this product. It is also available with customize specifications. It is available in Granular Form. It is the best product for Poultry industry, Fish, Dairy/Cattle, Pigs etc.

The reason behind its preference and recognition is its urea activity is almost zero and it is 100% organic. It is the best alternative for Soya Meal and other synthetic feeds available in the market. Pro NX60 (Roasted Guar Korma) is a registered & certified product of DGP group and available at our own specialized manufacturing Unit in North India (Sirsa).

- Protein (NX6.60): 56-58%
- Crude Fiber : 4.5 ± 1%Max
- Moisture: 4±1%



Customized Products:

We can also design products as per buyer's specification.

We have Optical Sorting facility also.

Products

MicroLam Korma (Pro NX-60+)

MicroLam Korma is our finest product and it is available in flour form. MicroLam Korma's protein value is 62% which is best in Guar Protein Meal category. Still it's 100% Organic and manufactured with automation technology with no contaminants. Its packaging and storage condition is also excellent as it's the most preferred product of Europe & Middle East. Its digestibility is amazingly enhanced so its results are impressive with laying hens, broilers and cattle/dairy industry.

- Protein (NX6.60+): 58-60%
- Crude Fiber : 4.5 ± 1%Max
- Moisture: 4±1%

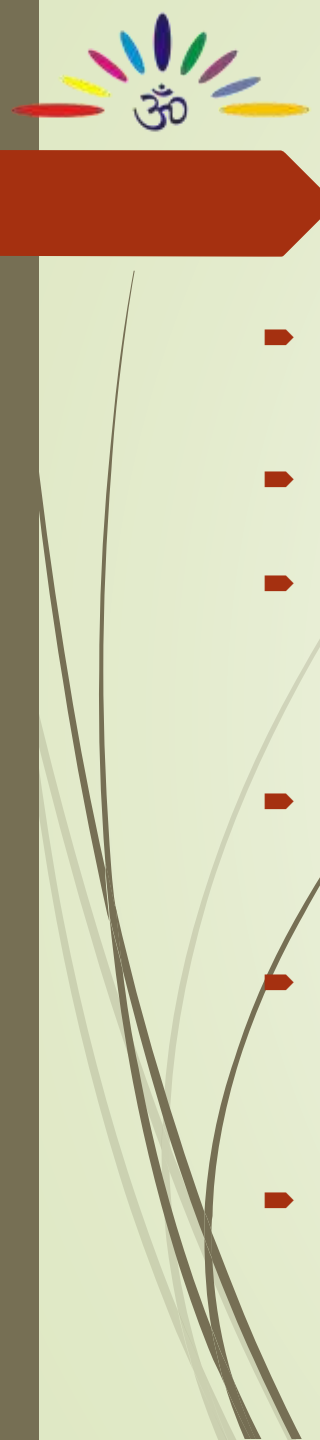


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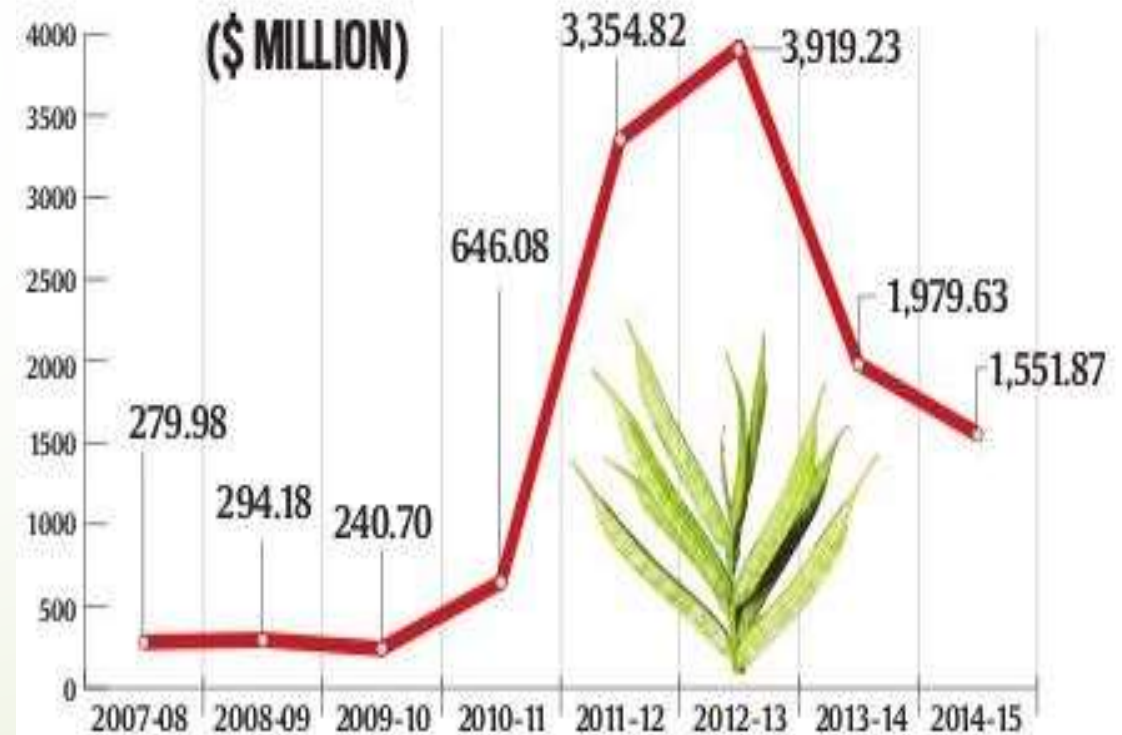




2006-2016: A decade of 'growth and evolution'

- ▶ **2006-2008:** Guar was a conventional crop & guar gum was used in industrial applications whereas guar meal was a fodder for ruminants.
- ▶ **2008-2010:** Even guar couldn't escape financial crisis as most of the industrial uses were affected.
- ▶ **2010-2012:** It was the 'Golden Era' for guar when it actually got recognized as essential gelling agent by US fracturing industry. At the same time, refining and roasting techniques took place where feed world recognized its importance at new level.
- ▶ **2012-2014:** Guar got its best prices in between and its end use was widely diversified. Roasted Guar Korma was officially introduced to world in between this period as major vegetable protein source.
- ▶ **2014-2016:** Aqua industry included this product in their formulation and this was the time when Guar Meal prices were also reached to its peak. Scandinavian countries were became major buyer for Roasted Guar Korma.
- ▶ **2016-Continue:** Steady growth of Guar industry is taking place at an average of 9% annually . New researches are taking place and competing with SPC. We as a leading company are also working towards the development of GPC and other value added products.

UP, UP AND DOWN: GUAR-GUM MEAL EXPORTS FROM INDIA





Trial- Roasted Guar Korma as Alternative For Fishmeal & Soya Bean Meal

3 experimental diets were produced: One reference diet with **0% RGK**, 2nd with **5% RGK** & 3rd with **10% RGK**. Feeds were produced with a pellet mill on a 2 mm die, using preconditioning with steam (>90^o C) and post conditioning (>90^o C) during 20 minutes. Roasted Korma can replace Soya bean meal & Chilean Fish meal up to a certain level obtain the same protein levels in all **aqua feeds**.

Composition of test feeds				
		Reference Feed	RGK 5%	RGK 10%
Sr. No.	Raw Material	Inclusion%	Inclusion%	Inclusion%
1	Chilean Fish Meal	25	22.5 (-2.5%)	20 (-5%)
2	Squid Liver Powder	4	4	4
3	Hemoglobin Powder	2	2	2
4	Wheat Flour	34.8	34.8	34.8
5	SBM (Soya Bean Meal)	20	17.5 (-2.5%)	15 (-5%)
6	Rice Bran	5	5	5
7	Soyalecithin	1.2	1.2	1.2
8	Fish Oil	0.9	0.9	0.9
9	Wheat Gluten	5	5	5
10	Premix	2	2	2
11	Roasted Guar Korma	0	5	10
Grand Total		100	100	100
Net Crude Protein		38.26 %	38.26 %	38.26 %
Net Lipids		7.08%	7.08%	7.08%



Shrimp Trials:

The shrimp trial was conducted at the Creve Tec-AFT Research Station in **Venray, Netherlands**. The Trial started with shrimp (*Litopenaeus vannamei*, shrimp improvement system) of +2.5 g and lasted for 4 weeks. There are 4 replicates for each diet, so 12 tanks of 150 in total. Each tank received 30 shrimp. All tanks are connected to a bigger tank. This way, all tanks have the same water quality. Water quality in the big tanks is maintained with **bioflocs**. Feed gift is adapted daily according to the average weight of shrimp, biomass and expected growth. Each week, shrimp were counted and weighed together to have average weight and total biomass.

Results: Growth of feeds with RGK was showing better results. Inclusion% can be increased by observing the FCR and mortality.

Commercial-Conclusion: In the era of price inflation and stubborn soya bean market, Roasted Guar Korma can be excellent yet most economical replacement. SBM is being used for humans and animals both so it always has a competitiveness. But **RGK** is only being used for animal. So it can be a great component for **Aqua Feed Millers** to include Roasted Guar Korma in their ingredient list. It is expected that along with time its results, technical performance and demand will increase.



Effects of partial replacement of Soybean Meal with Roasted Guar Korma

Trial: Broiler Feed (Poultry)

ABSTRACT: Veterinary World

Aim: To evaluate the effects of inclusion of **Roasted Guar Korma**, as replacement for soybean meal (SBM) in commercial broiler diets, on production performance and carcass traits of Cobb-400 broiler chickens.

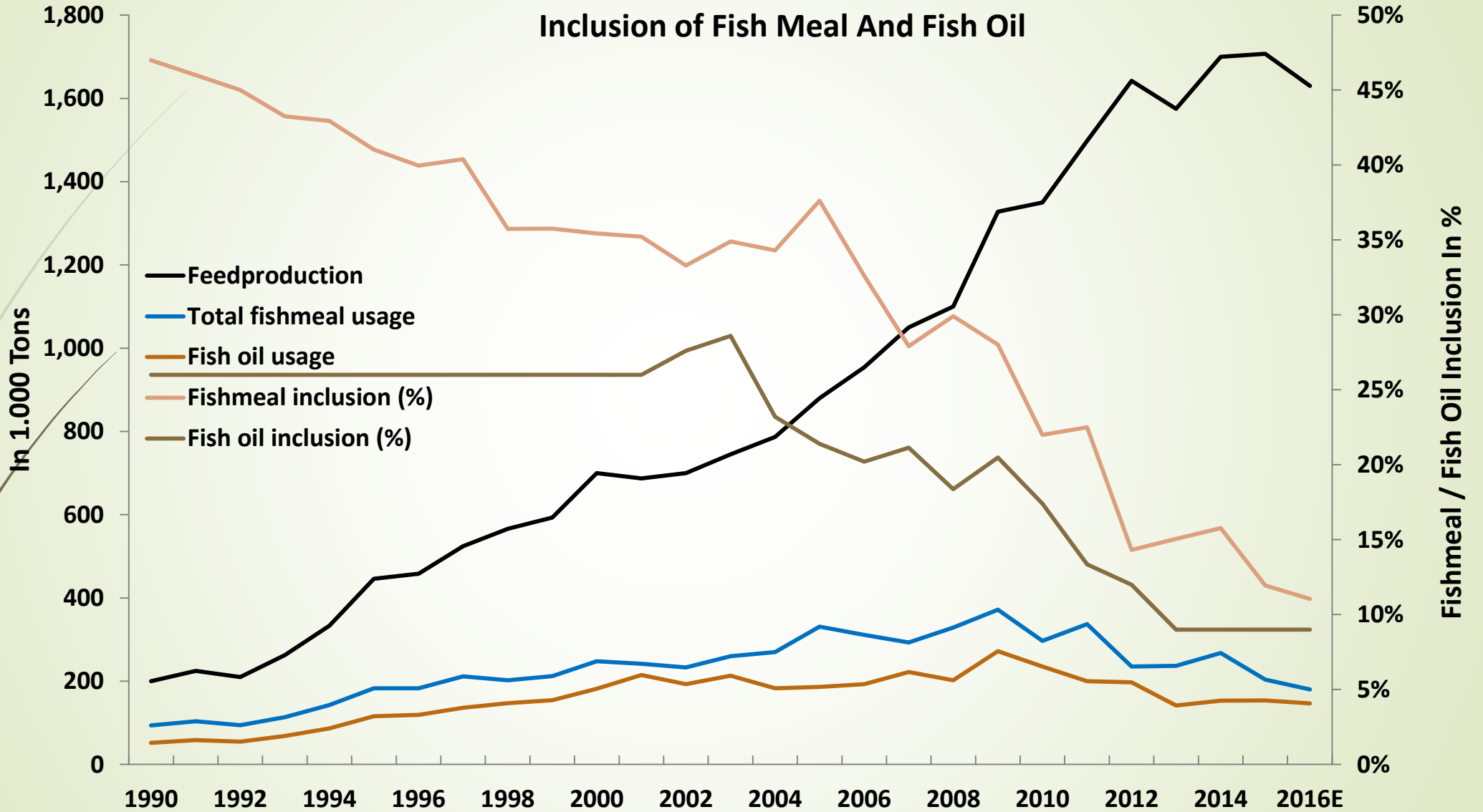
Materials and Methods: 1600 one-day-old Cobb-400 broiler chicks were randomly assigned into four dietary treatments, each with four replicates (n = 100 chicks per replicate). The diets were iso-nitrogenous and iso-caloric and included the basal diets composed of maize and SBM (T0), T0 + β -mannanase (T1) and the treatment diets in which SBM was partially replaced (20 g/kg in pre-starter, 50 g/kg in starter and finisher) with guar korma (T2) and T2 + β -mannanase (T3).

Results: Live weight was little improved by the dietary treatments ($P > 0.05$). **Roasted Guar korma** increased feed intake when compared with the SBM fed groups ($P = 0.01$). Feed conversion was better ($P = 0.01$) when SBM was fed to the chickens irrespective of mannanase supplementation. As a consequence the performance index score was superior ($P = 0.04$) in the SBM fed groups when compared to the guar korma fed groups. Across the diets, feed conversion was superior ($P < 0.05$) in the T1 group suggesting a beneficial effect of β -mannanase in the maize-SBM diet. Dressed yield showed a trend to improve ($P = 0.08$) upon β -mannanase supplementation. It also came into lime light that **Roasted Guar Korma** does have higher Energy, Oil, Protein, Phosphorus, few amino acids etc.

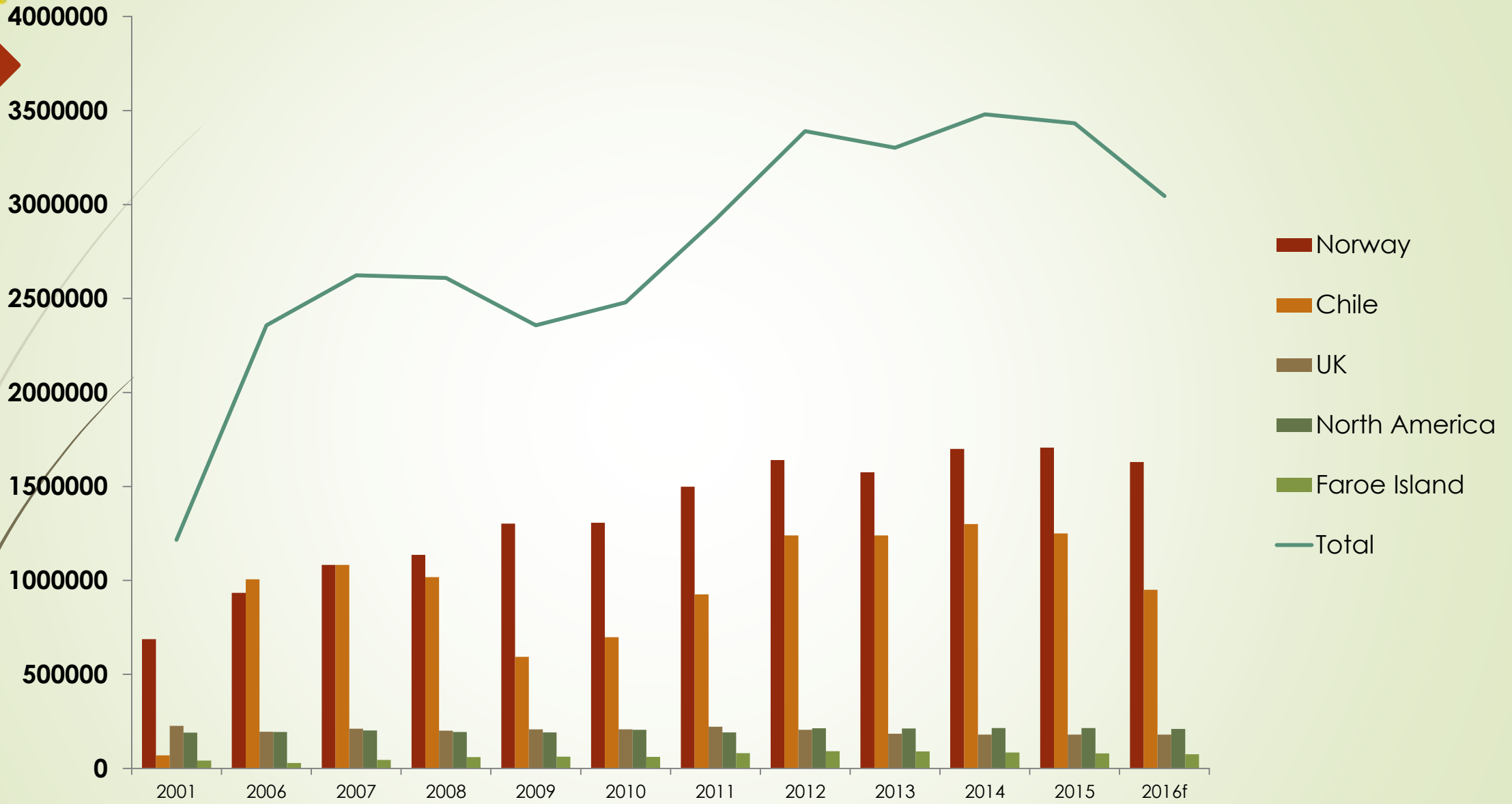
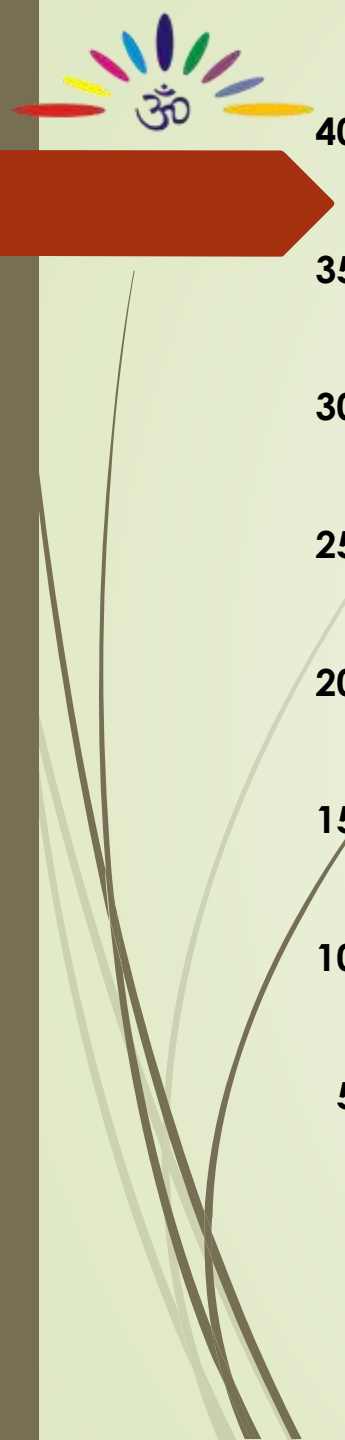
Conclusion: It was concluded that partial replacement of SBM with **Roasted Guar Korma** may yield substantial benefits in terms of performance. The main content is Protein, Oil, Amino Acid, Energy (ME) & Phosphorous. In all segment Guar Roasted Korma is the best alternative of **Soya Bean Meal**.



Norwegian feed production 1990-2016(e) and Inclusion of Fish Meal And Fish Oil



Global Salmon Feed Production



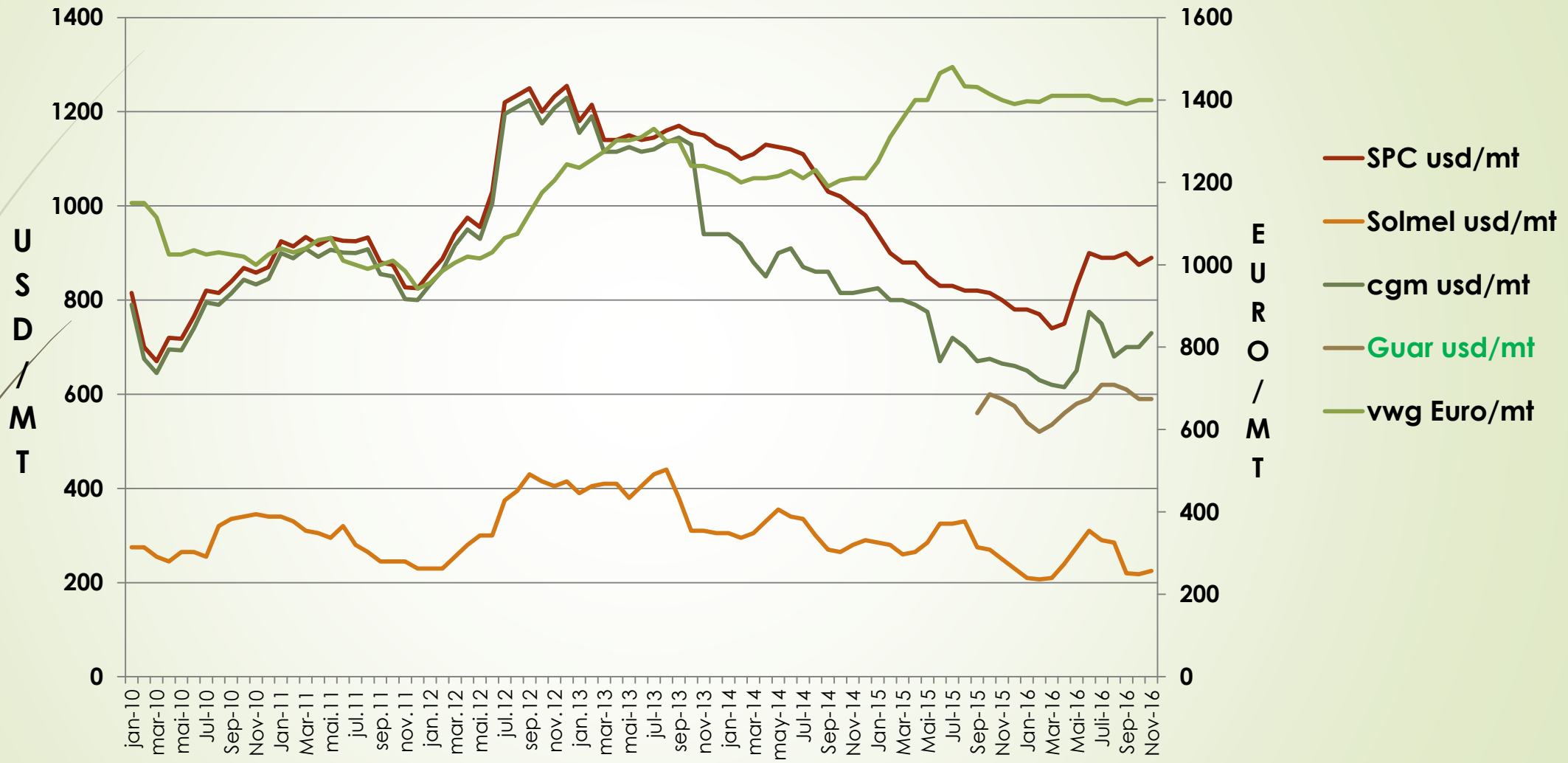


Roasted Guar Korma Imports

Month.Year	QTY (MT)	value NOK (Mill)	Price Per MT In NOK	USD/NOK	Price In USD CIF Norway
Jan.16	3 085	17,804	5,77	8,817	655
Feb.16	3 631	20,557	5,66	8,612	657
Mar.16	1 968	9,891	5,03	8,475	593
Apr.16	3 386	16,293	4,81	8,818	546
May.16	1 924	8,875	4,61	8,237	560
Jun.16	2 417	11,693	4,84	8,307	582
Jul.16	4 817	24,334	5,05	8,471	596
Aug.16	5 125	27,008	5,27	8,303	635
Sep.16	2 559	13,74	5,37	8,215	654
Oct.16	3 625	19,402	5,35	8,165	656
<u>Today's Exclusive Price</u>					<u>520 (L J Linen)</u>

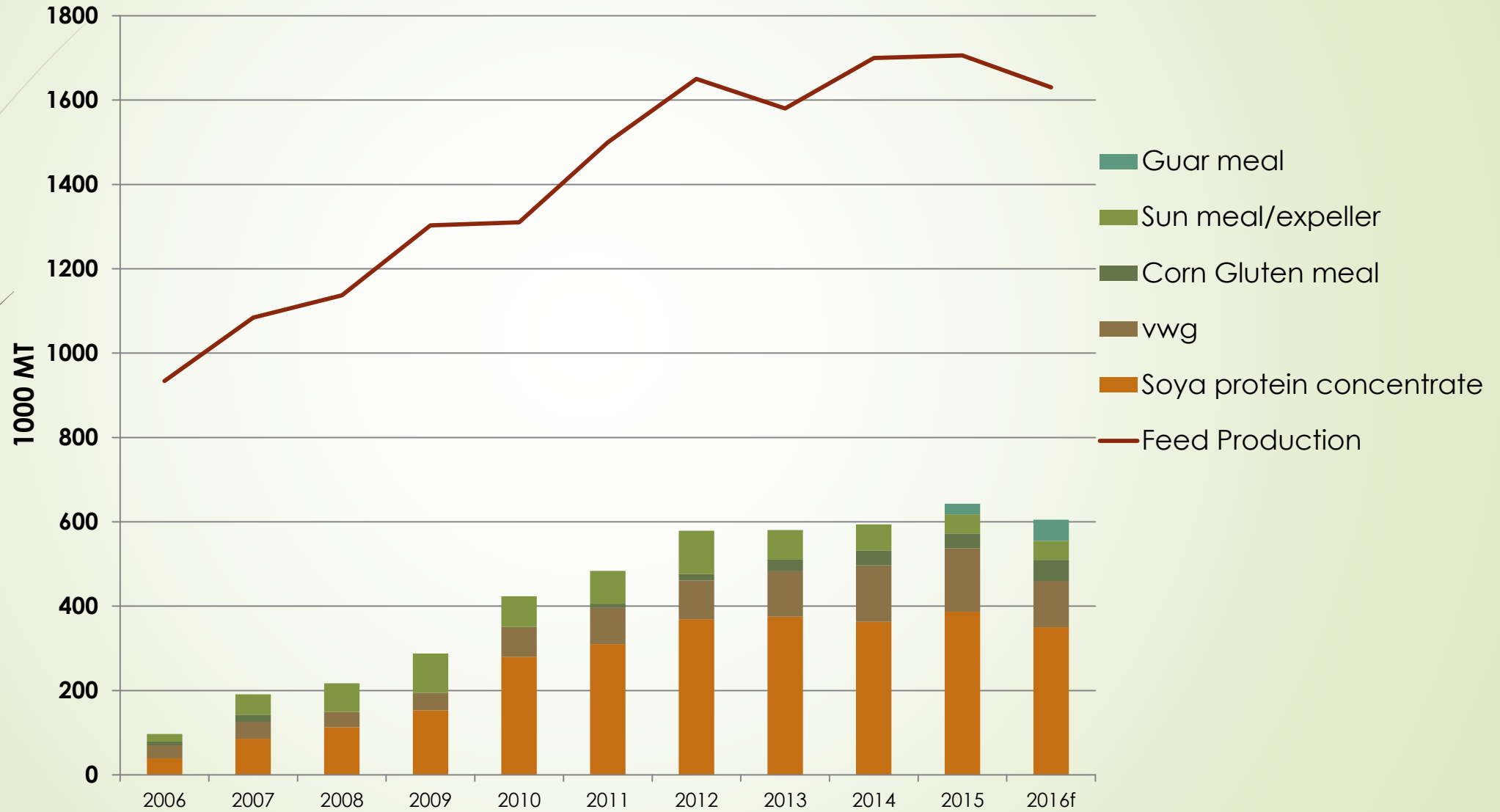


Veg Protein Fob EU





Norway Feed production / Veg proteins





What makes **Guar Protein** inevitable for **Aqua Feed** ?

Guar Protein



Facts & Features

- High Protein, Commercially Viable
- Balanced Amino Acid Profile
- Excellent FCR (**0.9:1**), Low Mortality
- NON GMO & Organic (100% natural)
- Long shelf life on standard conditions
- Low TVN, High Glutamic Acid
- Low ANF, High ME
- Natural Pallet Binder
- 7-8% Oil, 28 % Carbohydrates
- Rich in Essential Minerals and Nutrients



What makes US better in Industry !

- **100% Natural & Non GMO Protein-** All our products are 100% plant obtained (Non GMO) processed with 100% automation to get the highest quality in terms of hygiene and safety.
- **Accreditation and Certification-** We are the only SGS Certified Organic Guar Protein producer in the world. We also possess all feed safety and quality management certificates like GMP+FSA, HACCP, APEDA, NPOP etc.
- **Latest Technology** - We have 8 stage mechanisms to refine the **Guar Korma** at most and then we roast it within rotary roasting drum by **Riello Italian** burner which has an efficiency of **99%** (HSD Fuel) with stable heating/temp control and does not produce any smoke.
- **Complete-In-House production** - We buy Guar Seed directly from farmers or grow our own in our farms and produce all products of Guar in same premises.
- **Diversified Product Portfolio** - We have a range of products in Guar which strengthen our diversity and decrease our dependency on Guar Meal. So we can provide most competitive price yet with best quality.
- **Strategic location** - The best quality Guar Seed is produced in '**Canal Irrigated Area**' having dune sands land. Our plants are located only in this canal irrigated region-**Haryana**; to get regular supply of quality Guar Seeds.
- **Fresh Water, Air & Power** - Our plants are located in green fields far from the dusts of Industrial area & having plenty of fresh water & air supply.
- **Quality Checks** - Very start from guar seeds purchasing, pre cleaning, grading of seeds to the packing of finished products, our **QA/QC** teams have regular checks & analysis of materials.
- **Strong R&D Lab** - Our plants are equipped with latest Lab equipments for regular analyses & R&D. We have also long term contracts with renowned '**Research Institutions**' for innovation and research purpose.

Guar - The All Rounder

Nature - The Provider

We- The Refiner



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Visit Our Plants



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CYAMOPSIS BIOTECH (INDIA) PVT. LTD.



"Enriching Animals-Empowering You"



'We bring Protein directly from the Nature'

