



GIMA BIOTECH

GIMA COTTONSEED BIO TECHNOLOGY
A division of GIMATEX Industries



ENHANCING COTTON VALUE CHAIN WITH UNIQUE PRODUCT PROPOSITIONS



▶ ABOUT US

GIMA COTTONSEED BIOTECHNOLOGY (GIMA BIOTECH) is a division of Gimatex Industries, (Completely **Integrated** from Ginning to Processing) with diversification into scientific cotton seed processing producing top quality products using the **most innovative and unique technology**. The unit is located in the cotton growing belt of India i.e. Vidarbha. With more than 100 + years of textile experience with promoters & a strength of more than 5000 employees, this backward integration is a step towards enriching Cotton Value Chain.

India's 1st Ever Unit
For Producing Degossypolized
Cotton Seed Meal.

▶ OUR VISION

Our vision is to be recognized as leading contributor to the welfare of Cotton community by capturing the full value out of Cotton and its related products by providing the most technologically advanced products. We want to be renowned and trusted for the quality of our products, the high standards that display our integrity and commitment to match expectations of our consumers.

▶ GIMA ADVANTAGE

Unique Products

Special and unique parameters of our products offer great value in various applications

Location

Located in central India with best quality cottonseed and easy access to all markets.

Availability

All year round availability with consistent quality.

Research

Special focused approach on new product development offering innovative and customized solutions.

Technology

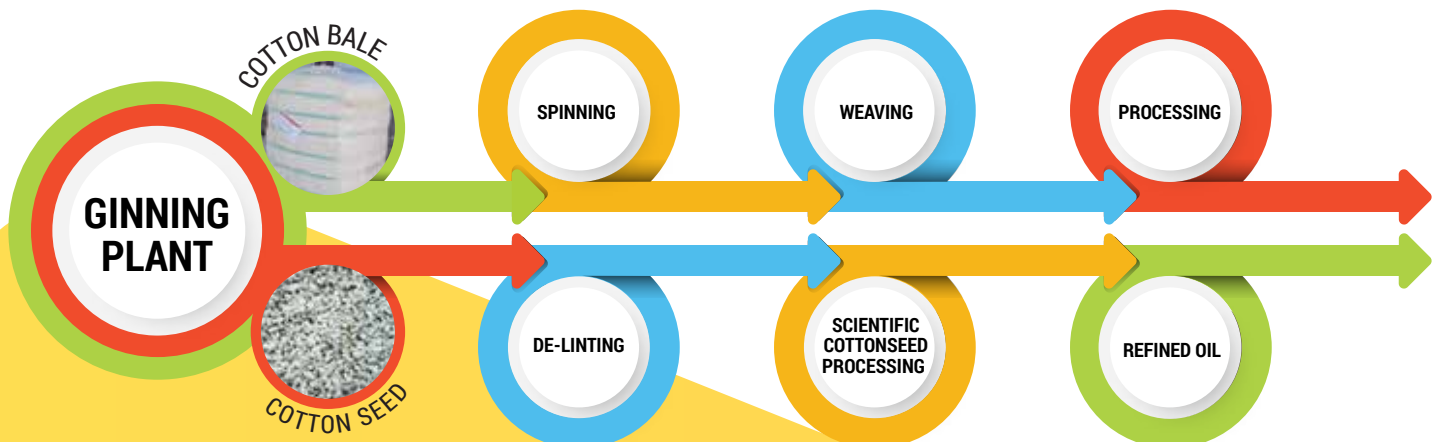
Most advanced, patented technology which caters to exact needs of customers.

Expert Management

Dynamic management with highly skilled and qualified technicians ensuring rapid growth.

▶ INTEGRATED PLAYER IN COTTON VALUE CHAIN

Gimatex remains to be uniquely placed as a completely integrated player in the whole Cotton value chain. Both the output of its Ginning unit, LINT & Cotton Seed, reaches own manufacturing facility retaining the freshness of the seeds.



PLANT AND MACHINERY



PLANT VIEW



ROOF TOP SOLAR



LINT CLEANER



LABORATORY



EXTRACTION



REFINERY



OIL TANKS

PACKING MACHINES



2 CHAMBER
BALE PRESS



HULLS COMPACT
MACHINE



DOC PACKING



TIN FILLING MACHINE

► PRODUCTION FACILITY CHAIN

Located in a picturesque setting in the heart of the cotton growing belt of Vidarbha (Central India), all its raw material is sourced from its own ginning plants situated in nearby areas. This raw material is further processed in a unique imported plant and machinery set up and fully equipped with top class utilities comprising of Boilers, Thermic Fluid heaters, Compressors, Water treatment plants, Roof Top Solar Plants etc.



DELINTING

Removal Of Impurities
& Linters

PRETREATMENT

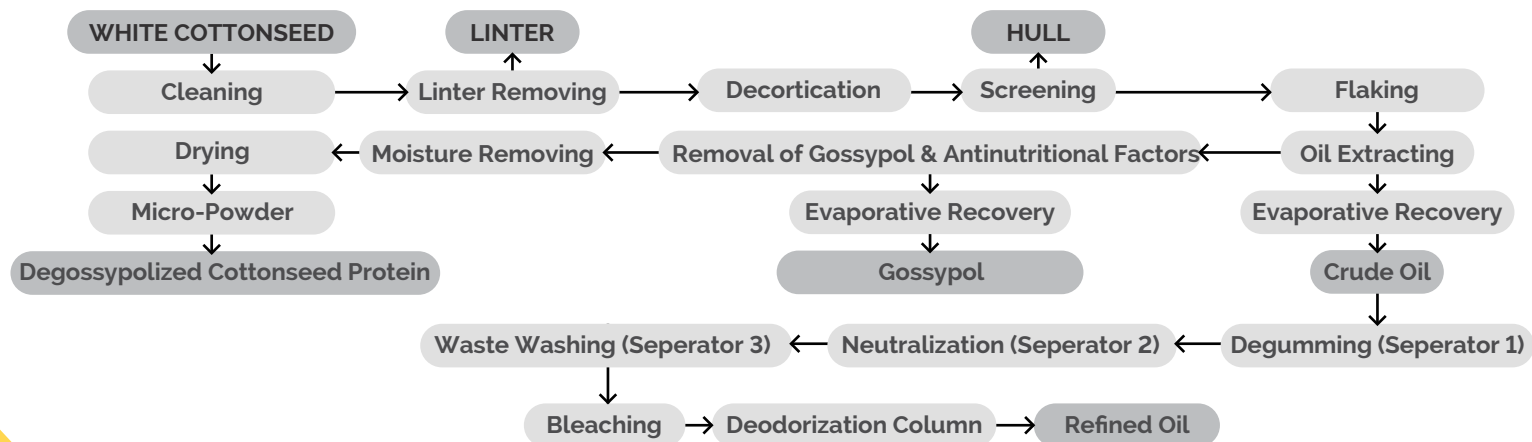
Decortication & Cooking
& Flaking.

EXTRACTION

Solvent Extraction &
Gossypol Extraction

REFINERY

Washing, Degumming,
Bleaching, Deodorisation



► MACHINERY PROFILE

- **Delinting** – Carver Technology
- **Pretreatment & Extractor** – Patented Chinese technology with Two Stage Drag Chain type extraction with Soaked & Repeated Degossypolization & Oil removal at low temperature drying.
- **Oil Separators** – GEA Westfalia Separators, Germany, Model- EASY PRO 100 & EASY PRO 200 (Self Cleaning type)
- **Oil Refining** – Chempro Technovations Pvt. Ltd.
- **Final Packing** – Multiple Screen filter

Plant is powered by Co-Gen Thermal Turbine plant & Solar Roof Top plant for its energy needs thus leaving a very significant Green Energy Footprint.

► QUALITY ASSURANCE

Our quality assurance begins from farm level from where fresh cottonseeds are procured. Further all are products are an outcome of several measures that we undertake to ensure quality ensuring that only the best product comes out of the production line.

- 🔧 A stringently controlled automatic process.
- 🔬 Scientific laboratory with latest testing instrumentation.
- 💡 Backed by qualified & trained workforce round the clock.
- 🏠 Fully reliable, traceable, proven, verifiable and sustainable.



OUR PRODUCTS

► COTTON SEED LINTERS

After the Ginning process, the clean seed is sent to Delinters where the linters are removed from the seed. The Linter removal process is done twice and the fibers collected are pressed into bales after extensive cleaning.

1ST CUT: Longer more resilient fibers is extracted with the aid of sophisticated de-linting machines. Applied in Non-woven products, Artist Drawing Papers, Medical Grade Cotton

2nd CUT: Short fibers or fuzz is extracted when passed for the second time. Used in High grade bond paper, Source of cellulose in chemical Industry



► COTTON SEED HULLS

Cottonseed hulls are the outer coverings of cotton seeds, and the by-products of the decortication process, necessary for cottonseed oil extraction. Hulls are a fibrous product, one of the best roughages used to add bulk to diets rich in protein and energy, in order to reduce digestive upsets in ruminants. Cottonseed hulls are a valuable substrate for **mushroom cultivation** and the spent substrate can be fed to livestock. It has numerous industrial uses such as **plastic manufacture, oil drilling (mud additive) and furfural production**.



► COTTON SEED REFINED OIL – GIMA WHITE GOLD

GIMA WHITE GOLD is extracted from the kernels cotton seeds. It's production process involves extraction of oil from the cotton seeds followed by purification and refinement. Refined and deodorised cottonseed oil is considered as one of the purest cooking medium available.

Ideal for Frying, Sauteing, Salad dressing and Baking.



► COTTONSEED MEAL – GIMA GOLD

GIMA GOLD, India's 1st ever unit to manufacture degossypolised cotton seed meal, with high nutritive level is most awaited constituent by the feed industry. It ensures lowering of feed cost. The unique production line ensures low oil residue in the meal, better degossypolisation effect and more importantly, removal of large quantity of anti-nutritional factors from the meal together with gossypol removal to ensure high nutrient level of cottonseed protein and improved digestibility. Degossypolized cottonseed protein could be added in appropriate proportion according to different species and different growth stages.

The feed material having high digestible energy and optimum amino acid profile – as required by the Feed Industry is a perfect replacement of Soya bean Meal.



Other By Products: Acid Oil, Soap, Spent Earth, Fatty Acids, Acid Oil Fludge

CERTIFICATES



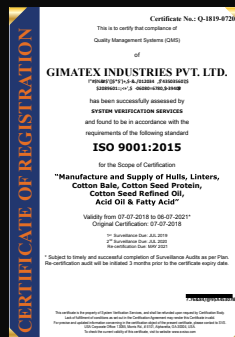
FSSAI CERTIFICATE



AEO CERTIFICATE



Star House Certificate
– Two Star



ISO 9001:2015 CERTIFICATE



ISO 22000:2005
CERTIFICATE

SOME OF OUR CLIENTS



TESTIMONIALS

- **Suresh A. Kotak** (Chairman-Kotak & Co. Ltd., Director- Cotton Association Of India): Value addition in Cotton Seed was absolutely essential for Sustainability of Cotton Chain and I am happy that someone in the Heart of cotton growing belt has done so and that too producing Gossypol Free High quality Protein which will provide good growth for animal wellness.

- **Pankaj Sarda** (Director at Sarda Dairy & Fod Products Ltd.): Inclusion of Gima Gold in our feed has helped improve the yield of milk in terms of Yield and Quantity.

- **Dr. S. V. Rama Rao**, M.V.Sc, Ph.D, Principal Scientist (Nutrition), Sri Ramadhoota Poultry Research Farm, Kothur: GIMA GOLD (Hi-Protein Cottonseed Meal) degossypolized can be included upto 15% in diets of commercial broilers without affecting the performance.

- **UNO Feeds, Komarda**: The completely dehulled, gossypol free cotton protein content, low fiber and good amino acid value, help us to maintain a balanced amino acid profile in our feeds and being at a discount to soya meal helps us to save cost.

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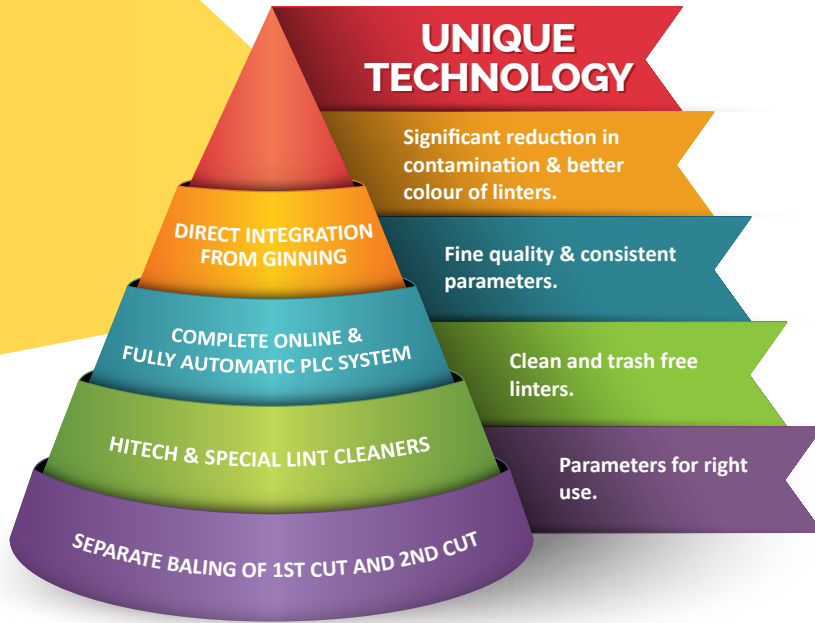
<http://www.gimatex.in/>



<http://gimatex.trustpass.alibaba.com>

COTTON LINTERS

After employing the Ginning process for recovery of lint from cotton seed, a certain amount of fuzz (very short fibres unsuitable for spinning) remains on the cotton seeds. This fuzz is known as cotton linters and are removed in de-linting machines.



PARAMETER	RESULT
Moisture	10% Max
Ash Content	1.5%Max
Trash Content	2% Max
Alfa Cellulose	75-85% Max

Production capacity: 11 MT. per day
Packaging: Bales of 165KG.
Bale Cover – Cotton bags
Bale Strip- Available in PP Strap/ GI Wire/MS Strip



REGULAR LINTERS



BLEACHED LINTERS



PACKED LINTER BALE



LINTER APPLICATION

BLEACHED LINTERS

PAPER & PULP

TEXTILES

**CELLULOSE ACETATES
CELLULOSE ETHER
NITRO CELLULOSE**

REGENERATED CELLULOSE



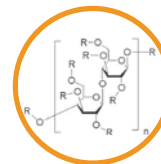
Used For Medical
Grade Cotton



Used For Being Rich
In Alpha Cellulose



Used For
Nonwoven Fabrics



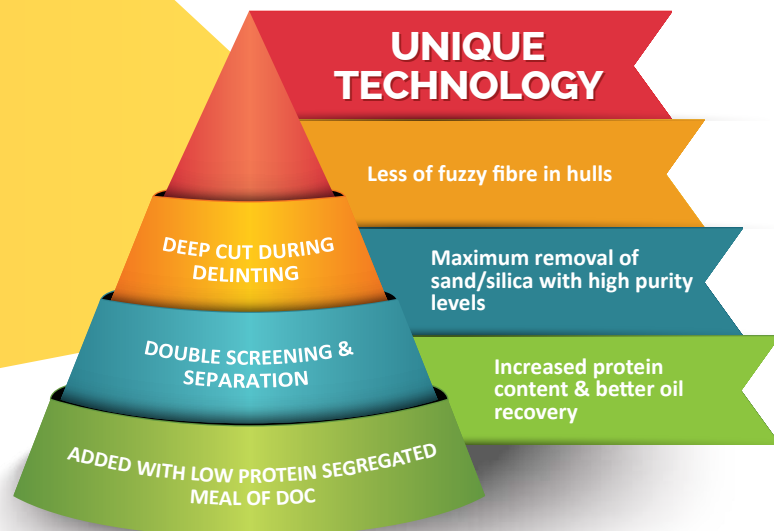
Used In Paints,
Laquers & Films



Used For
Manufacturing Textile Fiber.

Cottonseed Hulls

Cottonseed hulls are the outer coverings of cotton seeds and are made up of Ligno Cellulosic material.



PARAMETER	RESULT
Protein	5% Min
Fiber (Crude)	40-45%
Moisture	12% Max
Oil Content	1-1.5%
Sand & Silica	1% Max
Nitrogen	6.25%

Production Capacity: 80 tonnes/day

Packaging: Available in Compact Hull Packing (20-40Kg) and Loose Bagging in HDPE PP Bags (35-40Kg)



LOOSE BAGGING

DIMENSION: W 500MM X L 530MM X H 230MM



COMPACT HULL PACKAGING

DIMENSION: W 500MM X L 650MM X H 320MM

HULL APPLICATION

CATTLE FEED



To Be Mixed With Regular Feed

MUSHROOM FARMING



Used As A Substrate

OIL DRILLING



To Be Used In Mud

FURFURAL PRODUCTION



Used As A Raw Material

DE-OILED CAKE



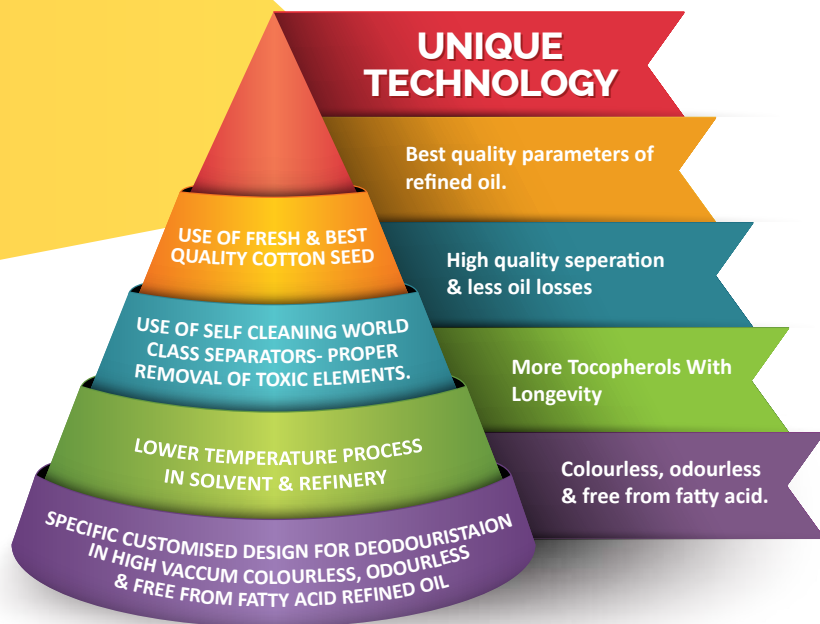
To Be Mixed With Cotton Seeds



WHITE GOLD
Sehat Ke Saath, Shudhta Aur Swaad

REFINED COTTONSEED OIL

Cottonseed oil is a cooking oil extracted from the seeds of cotton plants of various species, mainly *Gossypium hirsutum* and *Gossypium herbaceum*, that are grown for cotton fiber, animal feed and oil.



Production Capacity: 100 tonnes per day

PARAMETER	RESULT
FFA	0.02-0.08
Moisture	0.06 Max
Iodine Value	101-110
Peroxide Value	0.2-0.8
T.B.H.Q	Positive
Odour	Odourless

BENEFITS

High smoke point & low calorie absorption.

FRY KING



High % of unsaturated fatty acids makes it a healthy choice.

NATURALLY HYDROGENATED



NEUTRAL TASTE

Tastes like whichever ingredient it's added to.

High level of antioxidant preserves freshness and gives longer shelf life.

α - TOCOPHEROL



VITAMIN E

Fights free radicals & is essential for good health.



CHOLESTEROL FREE

Being extracted from plants, helps reduce cholesterol level.



Tocopherol Content In Various Edible Oils

Oil Crop	Total (mg/100g)	Contents (mg/100g)			α Tocopherol equivalent
		A	B	C	
Canola	66	19	43	4	23
Corn	104	26	75	3	33
Cottonseed	65	35	30	-	38
Olive	13	12	1	-	12
Palm	26	6	11	9	8
Peanute	13	9	4	1	9
Rapeseed	67	22	19	26	24
Soyabean	104	10	70	24	17
Sunflower	65	62	3	-	62

COOKING

FRYING

SAUTEING

SALAD DRESSING



OIL APPLICATION

₹5 Per Tin Of Oil Is Spent On The Welfare Of The Cotton Farmers.

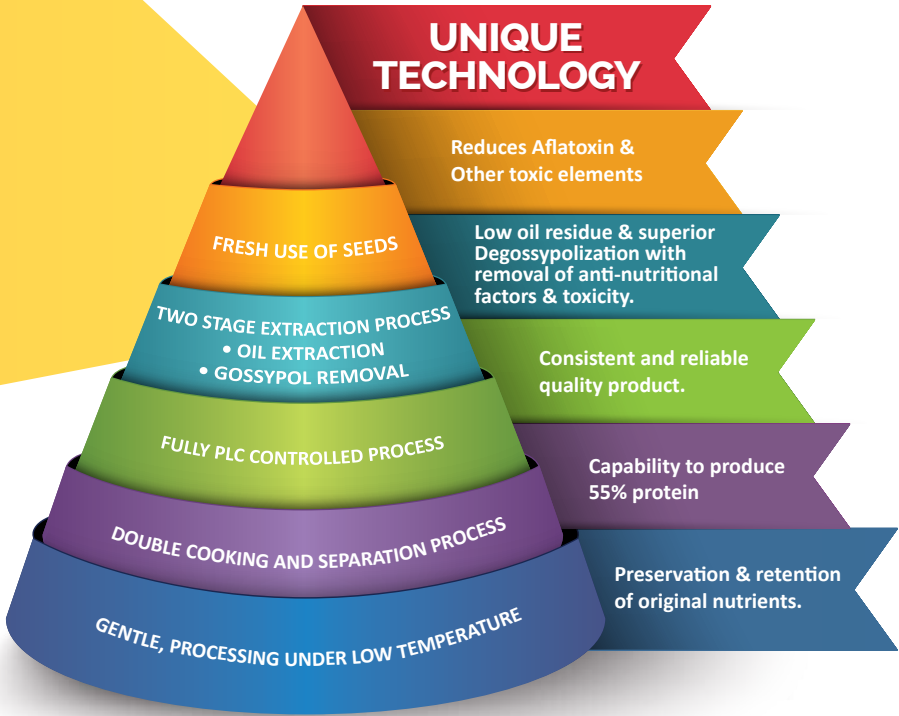


De-Gossypolized Cottonseed Meal

“Good Health Guaranteed”






GIMA GOLD obtained through unique & imported scientific cotton seed processing has very high protein which increases ration efficiency and supplies digestive protein for tissue development, healthy activity of digestion and adequate production of hormones & enzymes. It is produced under very hygienic condition in a coarse powdered form.



AVAILABLE IN 51% & 55% PROTEIN LEVEL FOR CUSTOMISED APPLICATION

Production Capacity: 75 tonnes/day
Packaging: - 50Kg bag

Sr. No	Parameter	RESULTS			
		Normal Cotton DOC	SOYA DOC	GIMA GOLD Cotton DOC 51%	GIMA GOLD Cotton DOC 55%
1	Protein (%)	37	46%	50 MIN	55 MAX
2	Moisture (%)	10	9 Max	10 MAX	8 MAX
3	Oil (%)	7	1.5 Max	1.2 Max	0.9 MAX
4	Crude Fibre (%)	12	6 Max	6 Max	4 MAX
5	Free Gossypol (%)	1200 ppm	0	400 MAX	300 MAX
6	Sand & Silica (%)	2	1.0 Max	1 Max	0.5 MAX
7	Lysine (%)	1.22	2.69	2.35	2.4
8	Methionine + Cystine (%)	0.5	0.98	1.49	1.6
9	Arginine (%)	2.8	2.82	5.87	5.87
10	Total Amino Acid (%)	32	40.94	49.26	50.1
11	Ratio of Amino Acid in Crude Protein (%)	65	91.6	93%	95.6
12	Metabolic Energy of Chicken (Cal/g)	NA	2390	2420	2650
13	COLOUR VARIATION	 DARK BROWN	 YELLOWISH	 GOLDEN YELLOW	

AS TESTED IN EVONIK LAB INDIA PVT. LTD. (20060) MUMBAI*

FEATURES



GOSSYPOL THE TOXIC ELEMENT

- Gossypol is a Toxic yellow, polyphenolic compound produced by glands in the cotton. It is in free state in the whole cotton seed but forms Bound Gossypol when cooked at higher temperatures as a result combining with free amino acids (Lysine) thereby reducing the nutritive value of Protein and availability of essential Amino Acid.
- Gossypol – Free State & Bound State (Bound Gossypol also becomes free once it consumed while digestion by non ruminants)
- Gossypol causes several Patho-physiological effects such as growth reduction, decrease in haemoglobin and reproductive performance. It causes Anorexia & weight Loss.



SIGNS OF GOSSYPOL TOXICITY

- Laboured breathing and anorexia.
- Acute toxicity has been shown in the heart, lung, liver, and blood cells, resulting in increased erythrocyte fragility.
- Generalised oedema and congestion of lungs and liver, fluid-filled thoracic and peritoneal cavities, and degeneration of heart fibres.
- Reproductive toxicity is seen particularly in males, where gossypol affects sperm motility, inhibits spermatogenesis and depresses sperm counts.
- Disrupt oestrus cycles, pregnancy and early embryo development, particularly in the monogastric species.

GIMA GOLD APPLICATION

GIMA GOLD CATTLE

- ▶ Very high rumen Bypass protein digestability >50% after 48 hrs.
- ▶ Feed mixed with SBM gives lower feed cost and much better feed quality parameters.
- ▶ Increased milk yield and milk fat due to high protein & energy content.
- ▶ Degossypolized meal adds to further growth & life of Cattles.
- ▶ Ideal replacement for Cotton seed cake which has high Oil and low protein.

GIMA GOLD POULTRY

BROILERS / LAYERS

- ▶ Presence of high Lysine >2.3% along with Methionine+Cystine >1.5% reduces the feed mixing cost.
- ▶ Gossypol removal results in harmless feed mix having no toxicity effect with better survival rate.
- ▶ High Digestibility results in good body weight gain and growth due to better feed conversion rate.
- ▶ No Egg yolk discoloration & increase in Egg weight due to toxicity of Gossypol.
- ▶ Improved Quality, fertility & hatchability of Eggs.
- ▶ Good amino acid profile results in balanced diet when mixed in right proportion with Soyabean DOC.

GIMA GOLD AQUA

- ▶ Very high protein > 52% & very low fibre content < 5% results in high growth feed mix.
- ▶ Granular powdered form becomes much more palatable when mixed with other materials.
- ▶ Palatability of Cotton Seed meal is appreciable compared to other plant ingredients and is very rich in Arginine.
- ▶ Good Amino Acid profile with high Lysine, Methionine & Cystine ensures additional supplementation is significantly reduced.
- ▶ Less Gossypol results in reduction of addition of Iron Salts which disturbs Immune balance & supports growth of harmful microbes.

LOWER YOUR FEED COST BY SUPPLEMENTING SOYA DOC WITH GIMAGOLD

Our team would be happy to help you lower your feed mix with our special software.