

Igniting Innovation, Transforming Tomorrow.

POWERED BY THE ENERGY OF GRAINS!





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WE ARE GRAINSPAN

SOURCE OF ENERGY

GrainSpan Nutrients Pvt. Ltd., headquartered in Ahmedabad, stands as a beacon of innovation in the procurement, production, and distribution of products derived from grain-milling.

Leveraging the expertise garnered from over a decade of experience in the grain-milling industry, GrainSpan is poised at the forefront of excellence, equipped with unparalleled insights into the intricacies of milling.

Our products serve as essential world-class raw materials for various industries, like bakery products, brewery items, cereals, pet food, and snacks, among others.

With our endless dynamism for innovation, we have recently diversified into the clean energy sector to re-engineer possibilities and be a powerhouse of transformative change for a greener future.

Through our spirit of exploration, we are scripting a new narrative of resetting benchmarks by redefining the boundaries

Vision

- Staying ahead of the milling and energy market curve while implementing cutting-edge technology that propels our people and planet towards progress.

Mission

- **To foster growth of people, communities, and the planet** powered by products that deliver clean and pure forms of nourishment and vitality.
- **To inspire actions that positively impact our shared future** through sustainable business practices and honest policy making.
- **To enable our partners in growth to scale up and transform** the way they conduct their business through knowledge-sharing and collaboration.
- **To unite people, products, progress and planet into a transformative force** by closely collaborating within each segment and ensuring optimal process improvement.



Integrity is paramount

Upholding unwavering ethical standards in every aspect of our operations, to ensure transparency and trust in every interaction with our clients and partners.



Quality is sacred

Delivering the highest quality every time to every client, because it all begins with us.



We are people-centric

Respecting individuals, groups and unique connections at GrainSpan as we believe that our people are awesome.



We think progressive

Individually and collectively, we focus on the future to identify opportunities for innovation and diversification.



Collaboration leads to success

Regularly collaborating with our partners for continuous process improvement and chasing success together.



Innovate right, innovate often

Investing in innovation to constantly upgrade people, products, planet and process for unassailable competitive edge.



Sustainability in actions

Our future depends on what we choose to do today and every day from this very moment. We think sustainable and act global.

From a grain to a giant tree: A glimpse of GrainSpan's dynamic transformation



The Year of Inception

2012

Company Incorporation in Gujarat

This year marked the inception of GrainSpan Nutrients Private Ltd. with the incorporation of our first manufacturing facility in Gujarat.

Rice Milling Plant in Gujarat

2016

Expansion of Operations

We further expanded with the inauguration of our first Rice Milling Plant in Gujarat.

Commencement of Operations

2014

We marked the commencement of operation with the installation of Corn Milling Plant in Gujarat.

Corn Milling Plant in Gujarat

Further Expansion

2016

In the same year, we also started producing snack pellets from our first snacks plant, extending our vision.

Snacks Plant in Gujarat

Rice/ Corn Milling Plant in West Bengal

2017

Acquisition of New Plant

We installed our second rice/ corn milling plant in India, this time in the state of West Bengal.

Ground-breaking ceremony of the Biofuel Plant

JANUARY 2022

Ground-breaking ceremony

We organised the ground-breaking ceremony of our Grain-based Ethanol Plant.

Business expansion of the Biofuel division

NOVEMBER 2023

Business expansion

We expanded the business of our biofuel division from 100 KL to 400 KL per day by the end of December 2024.

2020

Greenfield Project

We entered Haryana with our third rice/ corn milling plant in India, significantly increasing our capacity.

Rice/ Corn Milling Plant in Haryana

MARCH 2023

Commencement of commercial operations

Our Grain-based Ethanol Plant began its commercial operations in March 2023.

Commissioning of the 1st Grain-based Ethanol Distillery in Gujarat

Our spirited pursuit of **grain-based excellence** continues every day.



PRODUCT PORTFOLIO

GRAIN MILLING DIVISION

GrainSpan's factories across India churn out world-class products through the expertise acquired in grain milling for over a decade. Our milling plants are committed to delivering clean and pure forms of nourishment to not only facilitate India's food security but to catalyse the planet's progress through our grain-based products that serve as raw materials for food-based industries across the globe. Our combined grain-milling output for corn and rice is around 1000 metric tons.

Corn Milling Facility

GrainSpan supplies corn derivatives to national and international giants across various industries like bakeries, snacks, ready-to-eat cereals, breweries and pet food. Our corn milling facilities in Ahmedabad, Sonipat and Kolkata have a combined output of approximately 500 tonnes daily. We offer corn products that fall into six categories.



Rice Milling Facility

GrainSpan supplies rice derivatives to national and international giants across various industries that manufacture bakery ingredients, dry baked items, snacks, ready-to-eat cereals, flours, and sauces. Our rice milling facilities in Ahmedabad, Sonipat and Kolkata have a combined output of approximately 500 tonnes daily. We offer rice products that fall into two categories.



PRODUCTION PROCESS FOR CORN MILLING

Kernel Journey

Grain Storage

Corn is stored in large silos where grain temperature is constantly monitored.

Corn Cleaning

To ensure that only whole kernels enter the milling process, corn is cleaned to remove foreign materials and damaged corn kernels.

Tempering Conveyor

To soften the germ and loosen the bran coat, cleaned corn kernels are moistened or "tempered".

Degerminator

This milling device uses an abrading action to peel the bran coat and germ from the endosperm of the corn kernel. This splits the "tail stock" (large endosperm pieces) from the "thru stock" (hull, germ and smaller endosperm pieces).

THRU STOCK JOURNEY



DRYER / COOLER

To prevent condensation, heat is used to remove excess moisture from the stream. After this, cool dry air is used to aerate the product.

GRAVITY TABLE

This device uses the density difference between corn germ and endosperm to further split the kernel into separate components.



DRYER / COOLER

To prevent condensation, heat is used to remove excess moisture from the stream. After this, cool dry air is used to aerate the product.

ASPIRATOR

This device uses air flow to separate lighter particles (bran) from the heavier ones (endosperm), using the density differences and laws of aerodynamics.

TAIL STOCK JOURNEY

REDUCTION ROLL

This is the first step in finer granulation wherein the endosperm is broken into smaller, more uniform sizes.

SIFTER

This device is equipped with fine-meshed sieves or screens that use circular motion to separate smaller particles from the larger ones.



CORN FLOUR



CORN MEAL

SIFTER

This device is equipped with fine-meshed sieves or screens that use circular motion to separate smaller particles from the larger ones.



FLAKING GRITS



CORN GRIT



CORN BRAN



Degermed Yellow Flaking Grits (GSFC-001 & GSFG-002)

These are the largest pieces of broken corn endosperm, free from husk and germ.

Applications: Corn flakes and tortillas.

SIEVES (MICRON)	SPECIFICATION	
	MIN%	MAX%
On US 8 (2330)	0	3
On US 12 (1680)	75	95
On US 14 (1410)	5	20
On US 18 (1000)	0	3
THRU US 18	0	1

ANALYSIS	MIN%	MAX%
MOSITURE	12	14
PROTEIN	7	8
OIL	0.1	0.5
FIBER	0.3	0.5
ASH	0.2	0.4
TYPICAL BULK DENSITY	47.0 (lbs/ cubic foot)	

NUTRITION FACTS	
Serving Size 100g	
Amount per serving	
Calories 399	calories from fat 2.7
% Daily Value*	
Total Fat 0.3g	0%
Saturated Fat 0g	0%
Trans Fat 0g	
Polyunsaturated Fat 0.2g	
Monounsaturated Fat 0.1g	
Cholesterol 0mg	0%
Sodium 3mg	0%
Total Carbohydrate 3mg	26%
Dietary fiber 1.6g	6%
Sugar 1g	
protein 7.6g	15%
Vitamin A 4%	• Vitamin C 0%
Calcium 1%	• Iron 6%

*Percent Daily Values are based on 2,000 calorie diet



Degermed Yellow Corn Grits (GSCG-101)

These are medium-sized granular form of the corn meal

Applications: Ready-to-eat cereals,

Brewery industry, Bakeries, Extruded snacks

Product Specifications

SIEVES (MICRON)	SPECIFICATION	
	MIN%	MAX%
On US 12 (1680)	0	3
On US 20(840)	75	95
On US 30 (590)	5	20
THRU US 18	0	1

ANALYSIS	MIN%	MAX%
MOSITURE	12	14
PROTEIN	6.5	8.5
OIL	0.4	1
FIBER	0.3	0.6
ASH	0.3	0.6
TYPICAL BULK DENSITY	42.0 (lbs/ cubic foot)	

NUTRITION FACTS	
Serving Size 100g	
Amount per serving	
Calories 341	calories from fat 6.3
% Daily Value*	
Total Fat 0.7g	1%
Saturated Fat 0.1g	2%
Trans Fat 0g	
Polyunsaturated Fat 0.4g	
Monounsaturated Fat 0.2g	
Cholesterol 0mg	0%
Sodium 3mg	0%
Total Carbohydrate 78mg	26%
Dietary fiber 2g	8%
Sugar 1g	
protein 7.5g	15%
Vitamin A 4%	• Vitamin C 0%
Calcium 1%	• Iron 6%

*Percent Daily Values are based on 2,000 calorie diet

Food Products



Degermed Yellow Corn Meal (GSCM-001 & GSCM-002)

It is prepared by grinding cleaned yellow corn and removing the bran and germ.

GSCM-001

SIEVES (MICRON)	SPECIFICATION	
	MIN. %	MAX. %
1000	0.0	0.0
800	30.0	70.0
500	30.0	70.0
425	30.0	70.0
300	30.0	70.0
PAN	0.0	10.0

GSCM-002

SIEVES (MICRON)	SPECIFICATION	
	MIN. %	MAX. %
800	0.0	4.0
700	15.0	30.0
560	25.0	50.0
425	20.0	45.0
355	0.0	5.0

Packaging : 25 Kgs Paper Bags , 50 Kgs HDPE Bags



Corn Bran (GSCB-001)

The powdered form of the pericarp of the corn kernel is termed as bran. It is rich in proteins.

Applications: Ready-to-eat cereals, Snack food, Nutritional food, Pet food and Cattle feed

Product Specifications

SIEVES (MICRON)	SPECIFICATION	
	MIN%	MAX%
On US 20 (840)	0	5
On US 60(250)	30	80
THRU US 18	0	1
ANALYSIS	MIN%	MAX%
MOSITURE	10	12
PROTEIN	8	10
OIL	2	4
FIBER	13	18
ASH	0.5	1.5
TYPICAL BULK DENSITY	24.0 (lbs/ cubic foot)	

NUTRITION FACTS

Serving Size 100g	
Amount per serving	
Calories 351	calories from fat 19.8
% Daily Value*	
Total Fat 2.2g	3%
Saturated Fat 0.4g	7%
Trans Fat 0g	
Polyunsaturated Fat 1.3g	
Monounsaturated Fat 0.6g	
Cholesterol 0mg	0%
Sodium 3mg	0%
Total Carbohydrate 79mg	26%
Dietary fiber 2.4g	8%
Sugar 1g	
protein 6g	12%
Vitamin A 4%	Vitamin C 0%
Calcium 1%	Iron 6%

*Percent Daily Values are based on 2,000 calorie diet



Corn Flour (GSCF-001)

It is the fine powder obtained during the milling stage. It is uniformly milled to achieve a consistent texture.

Applications: Biscuit and bread preparation, Ready-to-eat cereals, Snacks, Brewery products, Pet food, Nutritional food

SIEVES (MICRON)	SPECIFICATION	
	MIN%	MIN%
On US 12 (1680)	0	1
On US 20 (840)	65	85
On US 30 (590)	10	35
THRU US 30	0	2

ANALYSIS	MIN%	MAX%
MOISTURE	12	14
PROTEIN	6.5	8.5
OIL	0.4	1
FIBER	0.3	0.6
ASH	0.3	0.6
TYPICAL BULK DENSITY	42.0 (lbs/ cubic foot)	

NUTRITION FACTS

Serving Size 100g

Amount per serving

Calories 341 calories from fat 6.3

% Daily Value*

Total Fat 0.7g	1%
Saturated Fat 0.1g	2%
Trans Fat 0g	
Polyunsaturated Fat 0.4g	
Monounsaturated Fat 0.2g	
Cholesterol 0mg	0%
Sodium 3mg	0%
Total Carbohydrate 78g	26%
Dietary fiber 2g	8%
Sugar 1g	
protein 7.5g	15%
Vitamin A 4%	• Vitamin C 0%
Calcium 1%	• Iron 6%

*Percent Daily Values are based on 2,000 calorie diet



Functional Flour (Pregel Flour) (GSA109)

This is a food-grade, dry-milled, preservative-free flour made from 100% natural corn without adding any other ingredients or additives. It is cooked at a high temperature to give it a uniform texture and viscosity.

Applications: Cereals, Snacks, Pasta, Dry baked goods, Small baked goods, Pound cakes, Bakery ingredients, Ready-to-use flours, Sauces, Creams and Fillings

Analysis		Granulation	
	MAX. %		MAX. %
Moisture	≤11.0	On US Sieve +60	0.0
Fat	≤1.5	On US Sieve +100	≤15.0
Viscosity	100-180	Pan	≥85.0
		Kosher	Yes
		Shelf Life	1 Year

Packaging : 25 Kgs HDPE Bags , 50 Kgs HDPE Bags

PRODUCTION PROCESS FOR RICE MILLING

Kernel Journey

Grain Storage
Corn is stored in large silos where grain temperature is constantly monitored.

Corn Cleaning
To ensure that only whole kernels enter the milling process, corn is cleaned to remove foreign materials and damaged corn kernels.

Tempering Conveyor
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Degerminator
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THRU STOCK JOURNEY



DRYER / COOLER

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GRAVITY TABLE

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CORN FLOUR



CORN MEAL

SIFTER

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FLAKING GRITS



CORN GRIT



CORN BRAN



Rice Grits (GSRG-02)

These are also known as Broken Rice or Middlins. They are obtained by grinding and sieving raw rice through a fine mesh and come with a uniform and consistent texture.

Applications: Raw material for snacking industry

SIEVES (MICRON)	SPECIFICATION	
	Min. %	Max. %
1400	0	1
1180	0	20
1000	25	60
850	20	50
710	5	15
600	0	5
425	0	1
PAN	0	0.05



Rice Flour (GSRF-101)

This is our top tier powdery flour having a fine texture and made from the choicest rice grains through a meticulously monitored process.

Applications: Snacking industry, Ready-to-eat cereals

SIEVES (MICRON)	SPECIFICATION	
	Min. %	Max. %
250	0	5
210	0	5
PAN	85	100

Packaging 50 Kgs HDPE Bags



BIOFUEL DIVISION

BIOFUEL DIVISION

GrainSpan's venture into the sustainable energy sector, through the production of bioethanol and other products, mirrors its dedication to propelling India towards energy independence while aligning with global efforts to mitigate carbon emissions and restore ecological balance. Our Biofuel Division operationalizes our mission towards sustainability through the production of bioethanol and the transformation of by-products into DDGS and storage and capture of CO2 for carbonated drinks.

Bioethanol

Our grain-based ethanol plant in Gujarat boasts state-of-the-art technology. We produce 400KL of bioethanol per day with an unparalleled purity at 99.9%, solidifying our role as leaders in a brighter, cleaner, and more secure future.

Key technical parameters of GrainSpan's ethanol

Ethanol (conforming to IS 15464 - 2022)			
Sr. No.	Parameter	Unit	Value
1	Relative Density at 15.6/15.6 °C (maximum)	-	0.7961
2	Maize Ethanol content (including denaturant)(minimum)	v/v %	99.60
3	Miscibility with water	-	Miscible
4	Alkalinity	mg/l	Nil
5	Acidity (CH ₃ COOH) (maximum)	mg/l	30
6	Residue on Evaporation (maximum)	m/m %	0.005
7	Aldehyde (CH ₃ CHO) (maximum)	mg/l	60
8	Copper (maximum)	mg/kg	0.1
9	Conductivity (maximum)	µs/m	300
10	Methanol (maximum)	v/v %	0.5
11	Sulphur content (maximum)	mg/kg	10
12	Appearance	Clear, bright and free from any sediments	



Dried Distillers' Grain Solubles (DDGS)

DDGS is made from the by-product at the end of ethanol production. Among GrainSpan's several measures to reduce environmental impact and mitigate waste is the transformation of the by-product of ethanol distillation into nutrient-rich DDGS for the animal feed industry. We manufacture DDGS made from rice as

NUTRITIONAL VALUES	RICE	MAIZE
Moisture	10.0 – 12.0 %	11 % (Max.)
Protein	45.0 ± 1.0 %	30.0 ± 1.0 %
Fat	3.0 ± 1.0 %	5.0 ± 1.0 %
Fiber	5.0 ± 1.0 %	9.0 ± 1.0 %
Colour	Light brown	Light brown

Why DDGS is better than regular Cattle feed?

There are multiple reasons as to why DDGS is preferable over regular cattle feed.

- The rising demand for renewable energy boosts biofuel production, whose by-products are nutrient-rich alternatives.
- Massive amounts of the by-product generated during bioethanol distillation pose environmental challenges if not utilized effectively. An eco-friendly solution is to process the by-product into DDGS, which can serve as livestock feed.
- DDGS is highly nutritious as the energy and protein content of the by-product remain intact. Only the starch portion of the rice and corn kernels gets converted to bioethanol.
- It is specifically beneficial for dairy cows, where it prevents postpartum paralysis, provides high-fat content, and mitigates rumen acidosis due to its high fiber content.
- DDGS can replace soybean meal in cow feed with an optimal inclusion of 10-15% dry matter, lowering methane emissions and feed costs.
- The uptake of DDGS as cattle feed significantly aids in mitigating environmental impact as the distillation by-product has the potential for being transformed into a new product.

Over the past several years, DDGS has become one of the most economically and nutritionally competitive sources of cattle nutrition available on the world feed market.



CO₂

At GrainSpan, sustainability is at the core of our bioethanol production process. Maize and rice milling processes release significant amounts of CO₂ as a by-product. Instead of releasing this CO₂ into the atmosphere, we capture and store it using advanced technology.

Component	Concentration
Assay	99.9% v/v min
Moisture	50 ppm v/v max (20 ppm w/w max)
Acidity	To pass JECFA test
Ammonia	2.5 ppm v/v max
Oxygen	30 ppm v/v max
Oxides of nitrogen (NO/NO ₂)	2.5 ppm v/v max each
Non-volatile residues (particulates)	10 ppm w/w max
Non-volatile organic residue (oil and grease)	5 ppm w/w max
Phosphene	≤0.3 ppm v/v
Total volatile hydrocarbons (calculated as methane)	50 ppm v/v max of which 20 ppm v/v max non-methane hydrocarbons
Acetaldehyde	0.2 ppm v/v max
Benzene	0.02 ppm v/v max
Carbon monoxide	10 ppm v/v max
Methanol	10 ppm v/v max
Hydrogen cyanide	0.5 ppm v/v max

Why choose GrainSpan's supply of CO₂?

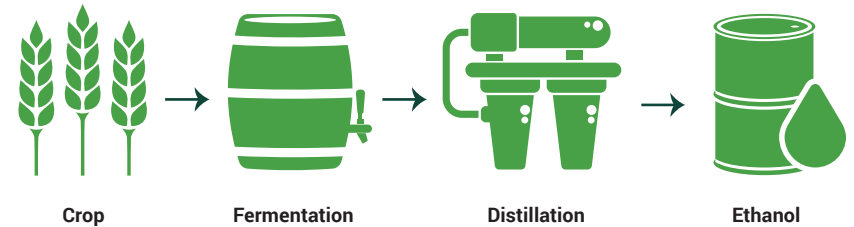
- State-of-the-art processes for capture, storage and purification
- Free from any contaminants and toxic substances
- Free from unpleasant odour and taste
- Meets all criteria for food regulations and compliances



Production Process

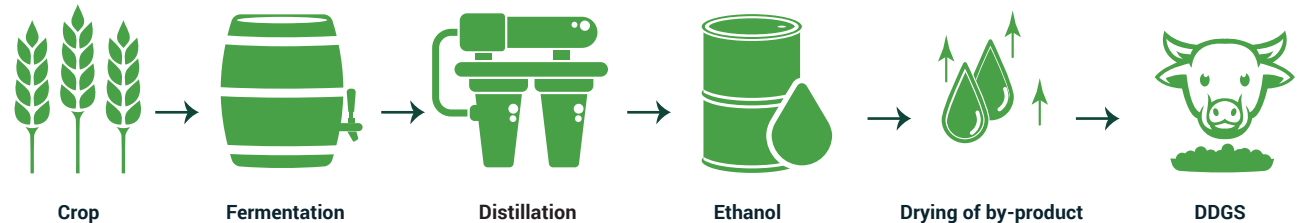
Production Process for Bioethanol

GrainSpan employs an advanced distillation system at the Bioethanol plant that optimizes grain-to-ethanol conversion with highest quality output. There is a rigorous quality control mechanism set-up to ensure consistent and reliable supply of



Production Process for DDGS

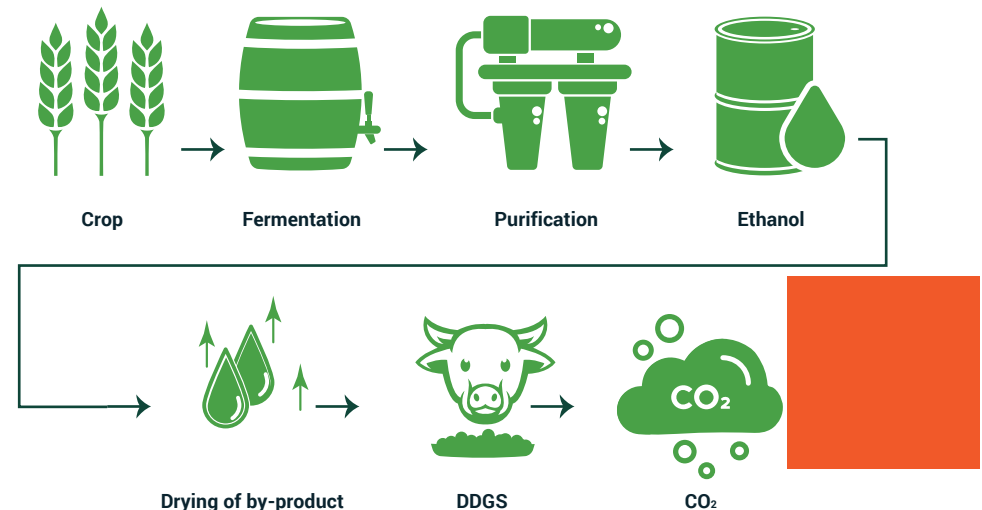
DDGS is a by-product of the rice-based and corn-based ethanol production. It is obtained using the same advanced distillation system and quality control mechanism that are used in the production of .



Production Process for CO₂

Carbonation is the process by which carbon dioxide (CO₂) gets dissolved under high pressure in a liquid. The dissolved CO₂ gives the carbonated drinks their characteristic effervescent nature or the fizzy effect.

We process the captured CO₂ to meet industry standards and supply it to companies manufacturing carbonated soft drinks and other fizzy beverages. This capture-and-storage process reduces our environmental impact apart from supporting a circular economy.



Research & Development

Energizing innovation, pioneering progress

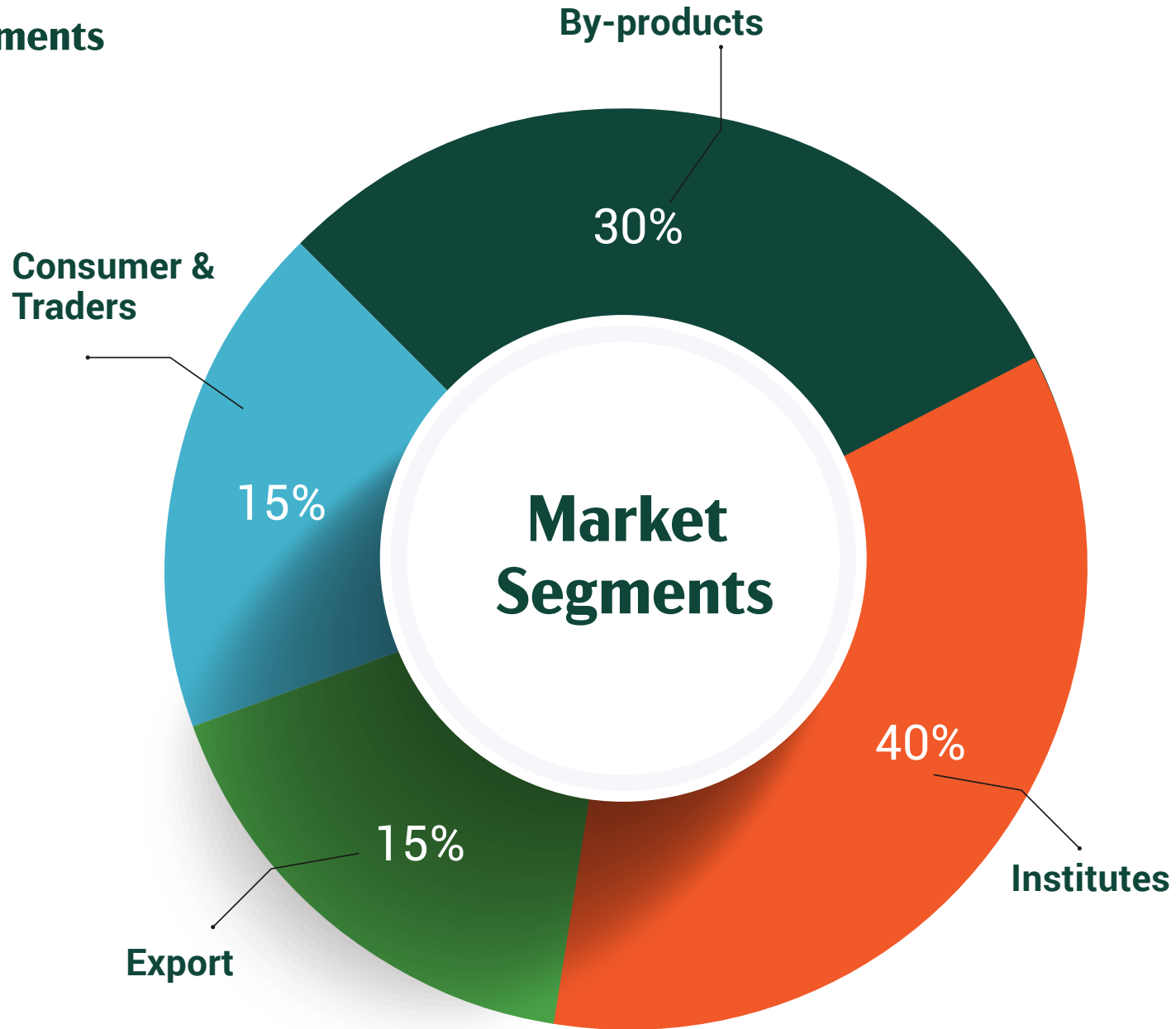
At GrainSpan, our commitment to transform grains into top-tier products is fuelled by a dynamic synergy between cutting-edge machinery and dedicated personnel. We place utmost emphasis on quality throughout our research and development phase.

Within our in-house research and development facility, state-of-the-art machines and adept personnel work with vigor and rigor, driving the continuous upgrade of our product portfolio with superlative products obtained from grain milling.

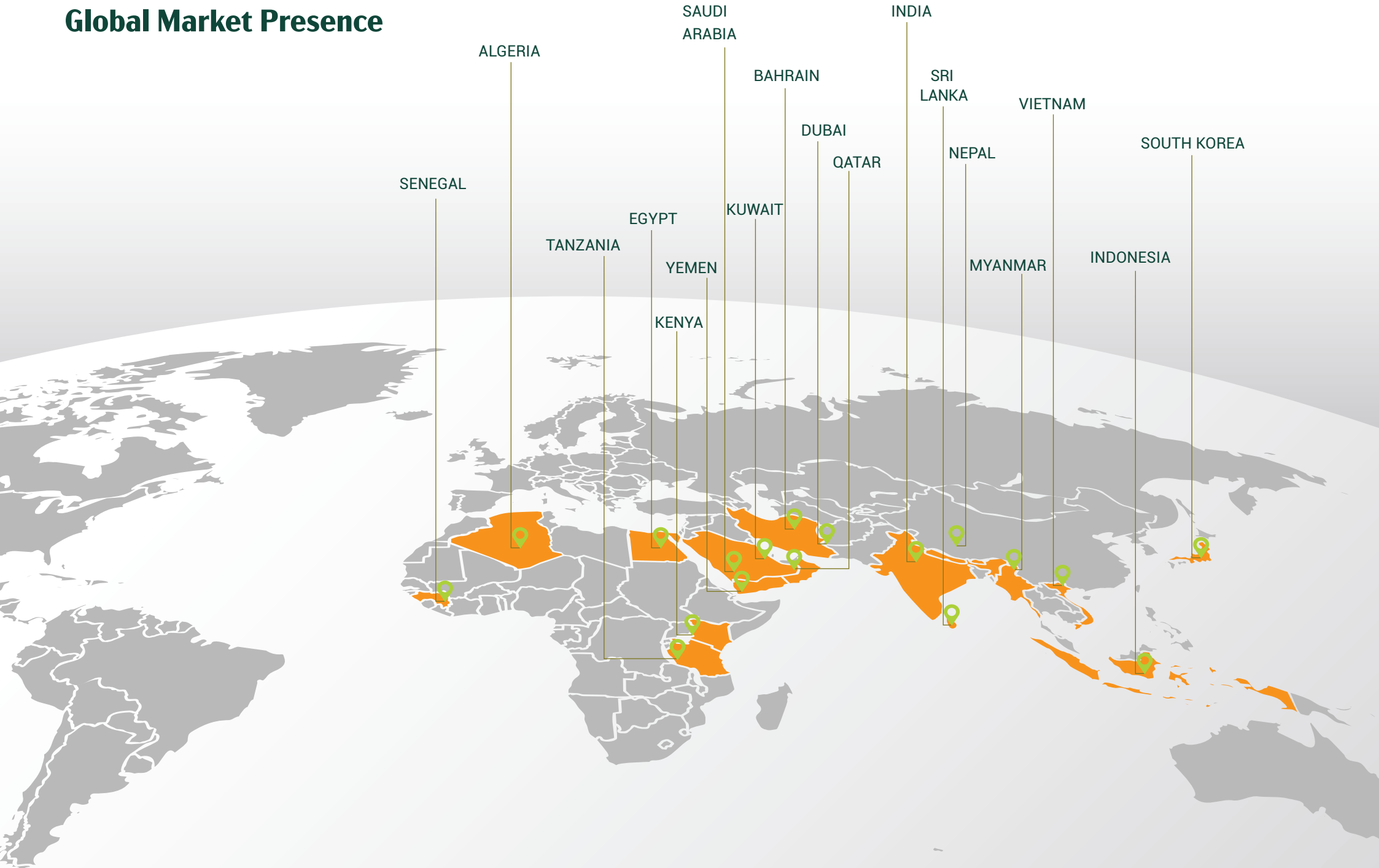
The energetic fusion of our personnel and machinery empowers us to craft a product range that not only meets but exceeds the demands of the Fuel, Food & Beverages and Feed Industries, enabling us to accelerate the progress of the people, nation and the planet.

MARKET DETAILS

Market Segments



Global Market Presence





Elevating Excellence: GrainSpan's Competitive Edge

Our goal is not just to be a reliable source of energy but to win the trust and admiration of all our clients and business partners. We strive to deliver on our promise of world-class quality, ensuring that every grain we use embodies our unwavering commitment to perfection. We constantly endeavour to create synergy between people, technology and processes to remain a level above the competition.



Connectivity: Manufacturing plants and storage units located at Ahmedabad, Kolkata and Sonipat – places well connected by air, sea, and roadways to cater to domestic and international clients.



Constantly Improving: A skilled team of researchers that persistently work to enhance our product range at our in-house R&D center.



Technological leverage: We source our machinery and equipment from leading global manufacturers of milling, automation and food-processing technology to achieve excellence in grain-based derivatives.



Uninterrupted supply of raw materials: Owing to our well-connected manufacturing sites and storage units, our manufacturing excellence gets a strategic boost from a smooth flow of grain supply that spans 365 days.



Expansive Distribution & Sales Network: We have a wide-ranging distribution and sales network spread across India, Bangladesh, Sri Lanka, the Middle East, South-East Asia, Europe and Africa.

OPERATIONAL DETAILS

The Plant

GrainSpan uses milling equipment sourced from renowned manufacturers in European countries like Germany, Italy and Switzerland. We leverage cutting-edge technology, and upgrade it periodically, to produce the best quality of grain-based raw materials for the fuel, food, and feed industries.

Technological Prowess



Unwavering commitment to quality assurance

Through meticulous technical and quality check protocols, we infuse a spirit of excellence into all our products – whether it's in the realm of fuel, food or feed, or fuel. We've implemented a robust Quality Assurance/Quality Control (QA/QC) mechanism to ensure that all our products and processes adhere to the highest industry standards, including accreditations like ISO 22000, HACCP and FSSC 22000.

Meeting multiple compliances, transcending ethical excellence

GrainSpan has set up its infrastructure and processes to satisfactorily fulfil several compliances for regulations and norms for food manufacturing processes and industrial safety. We had conducted and successfully got the approval for the following compliances, as per the criteria set out in the Manufacture, Storage, and Import of Hazardous Chemicals (MSIHC) Rules 1989.

- i. Quantitative Risk Assessment (QRA) for the Petroleum Class-A storage facility to estimate the risk from jet fires, pool fires, and flash fires.
- ii. On-Site Emergency Plan (as per Rule 13 of the MSIHC) to ensure readiness for implementing emergency mitigation measures, emergency preparedness, response procedures, and establishing an emergency organization with defined responsibilities and the necessary infrastructure, in the event of a disaster or industrial accident.
- iii. Hazards and Operability (HAZOP) study to determine if the safety mechanisms and procedures at GrainSpan are sufficient for the overall successful operation of the bioethanol distillery.



We have also received multiple certifications in food safety management at all our manufacturing units.

- i. **Food Safety System Certification 22000 (FSSC 22000)** - Awarded to the manufacturing unit at Sonipat, Haryana.
- ii. **Food Safety System Certification 22000 (FSSC 22000)** - Awarded to the manufacturing unit at Bavla, Ahmedabad, Gujarat.
- iii. **Food Safety System Certification 22000 (FSSC 22000)** - Awarded to the manufacturing unit at Howrah, West Bengal.
- iv. **JUHF Halal Certification** - Awarded to the manufacturing unit at Bavla, Ahmedabad, Gujarat.

We have also conducted environmental impact assessment (EIA) and received the following clearances for our grain-based ethanol distillery.

- i. **Environmental clearance** for the establishment of 100 KLPD grain-based distillery and 3.5MW captive power plant at Ahmedabad.
- ii. **Six-monthly compliance report** for 100 KLPD grain-based distillery for ethanol-blended petrol.
- iii. **Environmental clearance for proposed expansion** of existing grain-based distillery from 100 KLPD to 400 KLPD & captive co-generation from 3.5 MW to 9.75 MW.



CORPORATE SOCIAL RESPONSIBILITY

Expanding our outreach for community welfare

GrainSpan follows a CSR Policy that is developed in compliance with Section 135 of the Companies Act, 2013, in combination with Companies (Corporate Social Responsibility Policy) Rules, 2014 ("the Rules"). This policy guides GrainSpan's CSR activities in the communities where it operates. The policy is reviewed periodically and amended as and when required.

GrainSpan's CSR activities span social causes like:



Eradicating poverty and malnutrition



Enhancing environmental sustainability and ecological balance



Supporting education, including special education, for children



Promoting health care, including preventive healthcare



Vocational training for women, elderly and differently abled

Here are some of the community welfare activities we have undertaken in the past:

- **Created smart classrooms**, fixed sanitation and hygiene, and **developed playgrounds and drinking water facilities** in 11 schools by partnering with YUVA Unstoppable.
- **Installed solar fixtures** in Gujarat, bringing sustainable energy to the people residing in rural areas.
- Made **donations to SEWA communities**, **focusing on youth empowerment** and uplifting underprivileged societies.
- **Carried out plantation drives** in schools, villages, and other public areas
- **Adopted wastelands** to cultivate plants
- **Organized workshops** to provide technical support and know-how for **improving farming and building capacities of small farmers**



CORPORATE ENVIRONMENTAL RESPONSIBILITY

Extruding a greener future from the present

GrainSpan is dedicated to embedding sustainability into its manufacturing operations, aiming to restore the planet's ecological balance and forge a more sustainable future. Here's how we're making a difference:

- **Partnership with Government Initiatives:** We proudly support the Government of India's Ethanol Blending Program (EBP), which seeks to cut carbon emissions by encouraging bioethanol production.
- **Significant Emission Reductions:** By incorporating ethanol, we're able to slash greenhouse gas emissions by up to 30% compared to using pure gasoline, reducing annual gasoline emissions by 60,000 metric tons.
- **Innovative Use of CO₂:** The CO₂ produced in bioethanol manufacturing is captured and reused, promoting the growth of new crops in a beautiful cycle of sustainability.
- **Towards a Zero-Plastic Future:** Our mission to become a zero-plastic organization is in full swing, as we continually find ways to minimize plastic use across all our operations.
- **Sustainable By-Products:** The leftover materials from ethanol production are transformed into protein-rich cattle feed, ensuring nothing goes to waste.

At GrainSpan, we're not just about making grain-based products; we're also about effecting a positive ecological change.

Future Prospects

Anticipating the dynamic growth of grain-based products

The horizon for grain-based products is bright, with several key drivers poised to contribute significantly to the expansion of the packaged food market, the burgeoning demand for eco-friendly fuel alternatives and rise in the demand for good quality cattle feed. These drivers highlight the increasing need for grain-based raw materials across various industries.



Urbanization

More and more people are migrating to urban areas and large cities, which is driving the consumption of packaged food products and fossil fuels for daily transport and other purposes.



Environmental Concerns

The environmental impact of urbanization, including air pollution and global warming, underscores the necessity for sustainable fuel sources. Grain-based fuel blends emerge as a promising solution in this quest



Ethanol-Blended Petrol Program

The Indian government is planning to raise the current target of ethanol blending ratio in petrol from 20% to 30% by 2030. This will significantly aid in reducing the dependence on fossil fuels, which will reduce crude oil import expenditure and lead to better air quality.



Retail Evolution

India's retail market sector is projected to have a growth rate of 10% during 2022-2032 and reach an estimated value of USD 2 trillion by 2032. Food and Grocery is the largest retail segment, generating 63% of the total market revenue. This indicates a good growth for the grain-based industries that manufacture raw materials for the FMCG food market.



Changing Food Habits

The increasing shift towards snacking, on-the-go eating, pre-cooked meals and the need for healthier food options, driven by urbanization and changing lifestyles, creates bigger opportunities for packaged food companies, including those reliant on grain-based raw



Increased Consumer Spending

The Indian economy will be adding an estimated 140 million middle-income and 21 million high-income households that will propel the consumer spending to grow from the present value of USD 1.5 trillion to USD 6 trillion by 2030, indicating there will be more buyers for packaged food and sustainable fuel-based technologies that make use of grain-based products.



Packaging Innovation

Advancement and development of packaging technologies has resulted in higher shelf life of food products, which will boost the manufacturing of packaged food, subsequently driving the demand for grain-based raw materials.



Scarcity of raw materials for cattle feed

Cattle feed constitutes 20% of India's animal feed market, which is estimated to grow at a CAGR of 7.2% during 2024-2032. But recent market trends indicate a shortage of raw materials required to manufacture cattle feed. Hence, the production of low cost, nutritious, sustainable and alternative raw materials like DDGS is bound to witness a growth.



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With our unwavering commitment to quality and innovation, GrainSpan stands poised to energize the world both now and in the future, setting new benchmarks for excellence in the global grain-based marketplace.

THANK YOU

