



**GULSHAN**

**CREATING INGREDIENTS  
FOR A GOOD LIFE**



# OVERVIEW

We are one of India's leading manufacturers of grain and mineral based specialty products with years of demonstrated experience. Our business portfolio broadly spans across three main segments, viz. grain processing, bio-fuel / distillery and mineral processing operations that allows us to produce specialty products such as starch and starch derivatives including sorbitol, calcium carbonate, ethanol (bio-fuel), country liquor, agro based animal feed and installation, commissioning, operating and maintaining on-site precipitated calcium carbonate ("PCC") plants located at multiple client locations within India. We are also in the business of supply of plant and machinery for erection and commissioning of wet ground calcium carbonate ("WGCC") plants to various paper mills on turnkey basis outside India. We are one of the largest manufacturers of sorbitol (d-glucitol) with an installed capacity of producing 72000 MTPA sorbitol (d-glucitol), in India (*Source – Market Research Future Report*). We have been amongst the large manufacturers of calcium carbonate in India. We are also the market leader having a substantial market share in the calcium carbonate and sorbitol business segment operations in India (*Source – Market Research Future Report*). Our products are sold in domestic markets to leading OMCs for EBPP, FMCG, paints, plastics and PVC, pharmaceuticals, paper, construction and adhesives, among other companies and are also exported to 34 countries globally to international clients, which provides us the flexibility to manage demand variations and enables us to mitigate price volatility risks in procuring our key raw materials.

Our diversified product portfolio and the availability of different raw materials has helped us, to become one of India's leading manufacturers and suppliers of specialty products. Our Company is engaged in the manufacturing of (i) grain processing products such as sorbitol (70%) solution, maize starch powder, liquid glucose, agro-based animal feed, dextrose monohydrate, maltodextrin powder, glucose powder, rice gluten and rice syrup; (ii) ethanol (bio-fuel) and distillery products wherein our Company produces ethanol from damaged food grain, for the purpose of blending with petroleum by OMCs, country liquor, DDGS and grain-based ENA; and (iii) mineral processing products with 19 grades of calcium carbonate comprising of precipitated calcium carbonate, activated calcium carbonate and ground natural calcium carbonate / wet ground calcium carbonate. In addition to the above, our Company also install, commission, operate and maintain on-site PCC manufacturing plant under its the mineral processing segment. As part of this service, our Company provides the expertise, technical know-how and equipment to install, commission, operate and maintain the facilities for the production of precipitated calcium carbonate through setting up the PCC plant on-site of the paper mill of our customers, engaged in paper manufacturing, located within India. Our Company has not only set-up these on-site PCC plants in India, but also have been instrumental in gaining presence outside India, by way of setting up of the WGCC plants for various paper mills located in Bangladesh on built own transfer basis.

We maintain leadership position across all our product segments. We are one of the leading manufacturers and exporter of sorbitol (70%) solution, rice syrup and calcium carbonate in India. (*Source – Market Research Future Report*)

We are headquartered in New Delhi, with manufacturing facilities located in Muzaffarnagar (Uttar Pradesh), one manufacturing facility in Bharuch (Gujarat), Paonta Sahib (Himachal Pradesh), Sirohi (Rajasthan) Chhindwara (Madhya Pradesh), Goalpara (Assam). Further, the on-site PPC plants being operated by the Company are located at Patiala (Punjab), Hooghly (West Bengal), Muzaffarnagar (Uttar Pradesh) and Amlai (Madhya Pradesh). All our manufacturing facilities are strategically located in close proximity to the major customer of the products manufactured by the Company in India.



# TOUCHING LIVES, WORLDWIDE.

From toothpaste to alcohol, from sweeteners to paints, from paper to medicines, from plastics to personal care items... specialty products manufactured by Gulshan Polyols are an integral part of everyday life, across the world.



ETHANOL AND DISTILLERY

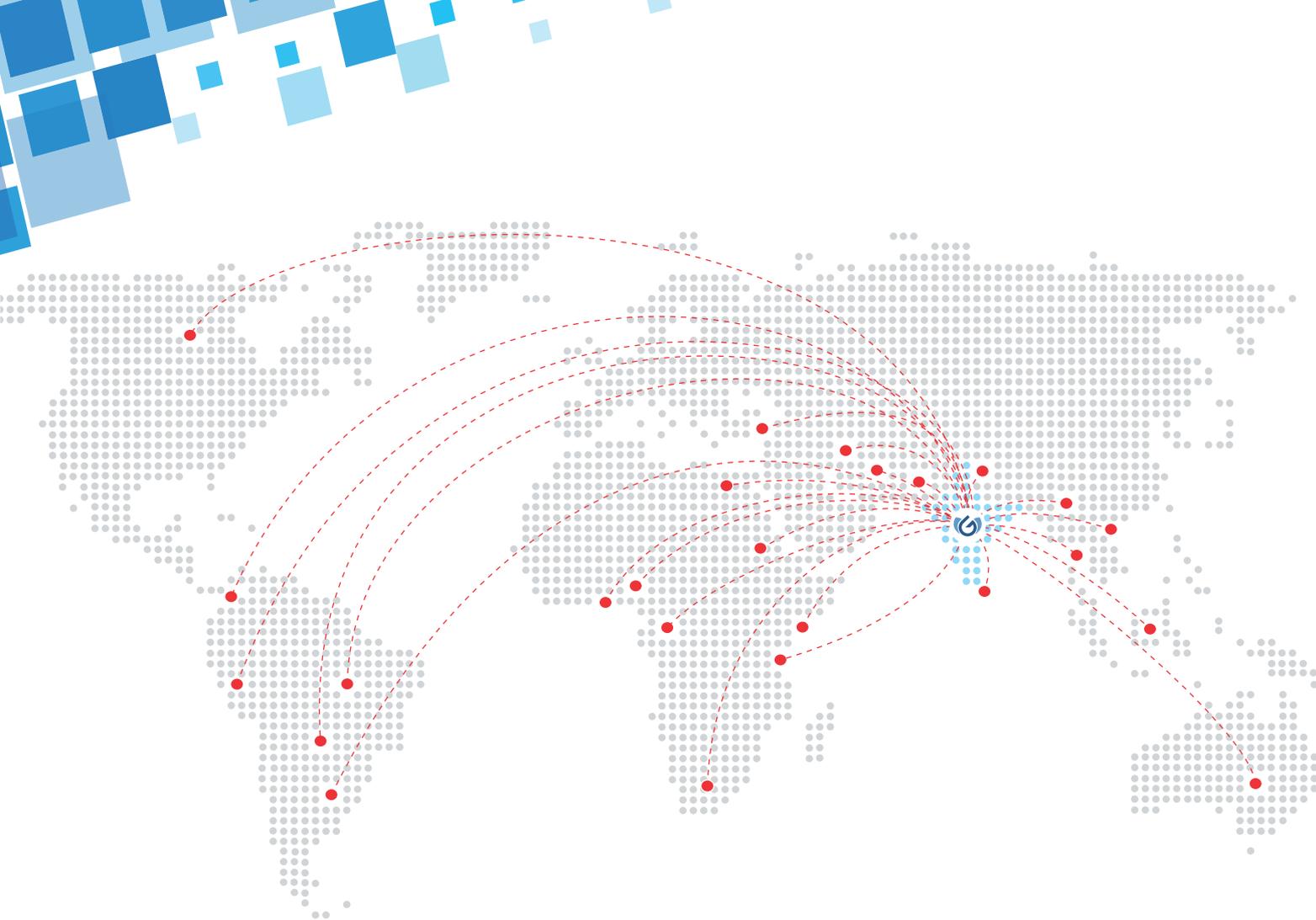


GRAIN PROCESSING DIVISION



MINERAL PROCESSING DIVISION





Argentina	Columbia	Iran	Nepal	South Africa	Turkey
Australia	Congo	Iraq	Nigeria	Sri Lanka	Vietnam
Bangladesh	Egypt	Kenya	Pakistan	Sudan	
Brazil	Ghana	Malaysia	Paraguay	Tanzania	
Canada	India	Myanmar	Peru	Thailand	

**PRODUCT CATEGORIES**

- Starch Sugars
- Calcium Carbonate
- Onsite PCC Plants
- Ethanol & Distillery
- Agro Based Animal Feed

**PLANT LOCATIONS**

- Two units Borgaon - Madhya Pradesh
- Goalpara - Assam
- Bharuch - Gujarat
- Muzaarnagar - Uttar Pradesh
- Dhaula Kuan - Himachal Pradesh
- Abu Road - Rajasthan

**ONSITE PCC PLANTS**

- DSG Paper Mill Ltd - Patiala, Punjab
- ITC Hooghly - Kolkata, West Bengal
- Orient Paper Mill - Amlai, Madhya Pradesh
- Silvertone - Muzaarnagar, U.P.
- Basundhara Multipaper Industries Ltd., Bangladesh
- Magnum Paper, Sahibabad, Uttar Pradesh

## CREATING A CULTURE OF QUALITY.

Incorporated in 1981, under the leadership of Dr. C.K. Jain, Gulshan Polyols Ltd. is a leading multi-product manufacturer based in India. We deliver value through our products and services to our chain of associates around the globe.

## PLANT HIGHLIGHTS

- Two plants dedicated to starch sugars with combined capacity to grind 140,000 MT grain every year
- Facilities and products certified ISO, HACCP, OU-Kosher, HALAL with GMP
- High quality standards through our in-house QC & QA laboratory equipped with HPLC and Gas Chromatograph, and a separate microbiology facility



## STARCH SWEETENERS WE MAKE

- Sorbitol 70%
- Dextrose Monohydrate
- Malto Dextrine Powder
- Liquid Glucose

## PLANT LOCATIONS

- Bharuch, Gujarat
- Muzaffarnagar, Uttar Pradesh

# ENRICHING TASTES WORLD OVER.

Starch and its derivatives have emerged as the most promising environment-friendly ingredients over the years, offering varied application benefits in both food as well as non-food industries. Starch sugars are produced by treating native starch chemically, physically or enzymatically. They possess unique characteristics, which explain their popularity in various industries such as dentifrice, healthcare, paints, pharmaceuticals, food & beverage, paper emulsions, textile, tobacco, adhesives, etc.





# CREATING POSSIBILITIES.

Calcium carbonate is the most commonly available and widely used compound as an industrial mineral. Limestone is the base sedimentary rock composed primarily of the calcium carbonate mineral, calcite ( $\text{CaCO}_3$ ). Calcite is treated chemically and physically to produce different grades of calcium carbonate. As a natural compound, Calcium Carbonate is widely used in dentifrice, paints, PVC, pharmaceuticals, dietary supplements, paper industry, construction, adhesives, etc.

## PLANT HIGHLIGHTS

- Four world class facilities spread across India
- Integrated capacity of more than 1,05,000 MTPA
- Facilities come with in-house microbiology laboratory and state-of-the-art research facilities, backed by 7MW power plants

## OUR PRODUCTS

- Precipitated Calcium Carbonate
- Activated Calcium Carbonate
- Ground Natural Calcite Powder
- Wet Calcium Carbonate

## PLANT LOCATIONS

- Muzaffarnagar, Uttar Pradesh
- Bharuch, Gujarat
- Dhaula Kuan, Himachal Pradesh
- Abu Road, Rajasthan



# SPREADING THE WINGS OF ENVIRONMENT-FRIENDLY TECHNOLOGY.

Gulshan Polyols Ltd. is the first to introduce the concept of Onsite PCC plant in India. This has been recorded in the Limca Book of Records, 2010. Gulshan Polyols Ltd. provides the know-how and equipment to set up an Onsite PCC plant and maintains supply of raw material for the same. Dr. Vasant Chapnekar, an eminent technologist, responsible for the introduction of PCC in alkaline paper in U.S.A. is associated with Gulshan Polyols Limited. With joint efforts, the company has installed its technology in manufacturing PCC and supplying it to the customers.

## ONSITE PCC PLANTS

PCC is produced in a satellite facility; onsite or close to a paper mill and the resultant slurry is pumped directly to the mill. In this arrangement, all plant and equipment required for producing PCC are installed under lease agreement in the premises of its end user. This unique environment friendly technology not only reduces the energy consumption and drying time but also utilizes the CO<sub>2</sub> emitted from the boilers.

### BENEFITS OF ONSITE-PCC

- Satellite plant brings efficiency in cost, production and supply chain management
- Use of PCC improves paper properties like brightness, oil absorbency, porosity, opacity and scattering-coefficient
- Use of PCC reduces the consumption of OBA and Titanium
- Providing a ready to use cheaper filler
- Increasing filler loading
- Elimination of freight costs
- In-time delivery
- Reduction in cost of production
- Improvement in paper properties at par with international quality grades

### ONSITE PCC UNITS IN INDIA

- ITC, Hoogly, Kolkata
- DSG Paper, Patiala, Punjab
- Magnum Paper, Sahibabad, Uttar Pradesh

# Grain based Ethanol (bio-fuel) and Distillery production:

On the occasion of World Environment Day, 5 June 2021, Hon'ble Prime Minister Shri Narendra Modi released the report of the Expert Committee on Roadmap for Ethanol Blending in India by 2025.

According to the report, 20% ethanol blending is within reach. The report further lays out an annual plan for the gradual rollout of E20 ethanol in the country. It suggests specific responsibilities of Union Ministries, State Governments and vehicle manufacturers for the production, supply and gradual rollout of 20% ethanol blending in petrol by 2025.

Immense benefits can accrue to the country by 20% ethanol blending by 2025, such as saving Rs 30,000 crore of foreign exchange per year, energy security, lower carbon emissions, better air quality, self-reliance, use of damaged foodgrains, increasing farmers' incomes, employment generation, and greater investment opportunities.



Our Company has recently diversified the grain processing segment by entering the foray of producing ethanol from damaged food grain. Pursuant to the NPB Policy 2018, the GoI, under the EBPP, had set an indicative target of 20% blending of ethanol with petrol by the year 2025-2026. Our Company had an existing set up of producing 60 KLPD ethanol at Chhindwara (Madhya Pradesh) since May 2020. Our Company is constantly supplying ethanol to OMC's. In order to participate in GoI initiative of blending 20% of ethanol with petrol by the year 2025-2026, our Company is already in the process of setting up a new facility for producing 500 KLPD of ethanol at a site which is adjacent to our existing facility in Chhindwara (Madhya Pradesh). We have already received the environmental clearance from MoEF & CC on September 27, 2021 including for the CCPP. The construction activity on the said facility has already commenced and we have placed the order for plant and machinery required for the manufacturing of ethanol (bio-fuel). Our manufacturing facility at Chhindwara (Madhya Pradesh) is equipped with in-house laboratory and state-of-the-art facilities backed by 2.2 MW CCPP for the ethanol and liquor production.

Our Company had participated in a tender issued by the OMCs inviting various molasses and grain-based distilleries for supplying ethanol (bio-fuel) post which our Company has been allocated for supplying of entire applied quantity of ethanol (bio-fuel) to OMCs for the period commencing from December 1, 2021 till November 30, 2022 at their various locations across the country, from our distillery facility at Chhindwara (Madhya Pradesh). Further, our Company, pursuant to an EOI floated by one of the major OMC on behalf of other PSU OMCs, has received a LOI from the OMCs whereby we have been shortlisted for signing of the long term off-take agreement with upcoming dedicated ethanol deficit states of India for supply of indigenous denatured anhydrous ethanol to such OMCs to meet the ethanol requirement.

As part of our future growth, our Company has also made its footprint in the north-eastern region of India. Our Company has received letter of allotment and the certificate of handing over and taking over physical possession from AIDCL for allotment of 25 acres of land at Industrial Growth Centre, Matia, Mornai, District Goalpara – 783101, Assam on lease for setting up of a 250 KLPD grain based ethanol (distillery) unit. Our Company has also executed the lease agreement as per the terms enlisted in the allotment letter on January 11, 2022. Our Company, pursuant to an EOI floated by one of the major OMC on behalf of other PSU OMCs, has received a LOI from OMCs whereby we have been shortlisted for signing of the long term off-take agreement with upcoming dedicated ethanol deficit states of India for supply of indigenous denatured anhydrous ethanol to such OMCs to meet the ethanol requirement.





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