



ADVANCED
FLUOROSPECIALTY
SOLUTIONS
FOR TOMORROW



ABOUT THE COMPANY

Gujarat Fluorochemicals Limited (GFL), is a part of the INOXGFL Group - an Indian conglomerate with a legacy of more than a century. The group has diversified business segments comprising of fluoropolymers, speciality chemicals, battery chemicals, wind energy and renewables.

GFL is a leading producer of fluoropolymers, fluoro specialities, refrigerants and chemicals for applications in varied industries. GFL derives its strength from expertise in fluorine chemistry, vertical integration from natural minerals to Fluoropolymers and strong R&D, enabling us to provide one of the best quality products meeting all regulatory compliances, to our clientele globally. GFL started with India's largest refrigerant manufacturing unit at Ranjitnagar, Gujarat, India. Foraying into new avenues in 2007, with one of the world's most integrated facilities at Dahej, Gujarat, India, GFL now has a diverse portfolio of fluoropolymers comprising PTFE, PFA, FKM, PVDF and fluoropolymer additives. By setting up capacities for materials (fluoropolymers and speciality chemicals) catering to new growth sectors, the group is extending its reach into EVs, solar energy and hydrogen fuel cells. Several capacities are being set up at GFL including those for PVDF used as cathode binders in EV batteries, chemicals for EV batteries and membranes for hydrogen electrolysers.

With three manufacturing facilities in India, a captive fluorspar mine in Morocco, offices and warehouses in Europe and the USA, and a marketing network spread across the world, GFL is one of the most established players in fluoropolymers and fluorospecialities markets globally.



GFL FSB INTRODUCTION

GFL's Fluorospeciality Chemicals Division leverages deep expertise in fluorine chemistry, integrating advanced R&D, process engineering and strong backward integration to develop high-value molecules. It focuses on delivering high-value molecules for applications across agrochemicals, pharmaceuticals, fluorinated surfactants and intermediates serving industries such as FMCG, electronics, semiconductors and other emerging sectors.



Our capabilities span the entire value chain, from basic fluorine raw materials to complex, performance-driven speciality chemicals – ensuring consistent quality, reliable supply and accelerated innovation. Our key business segments include:

1. Agrochemical Intermediates

Fluorinated intermediates for herbicides, fungicides, insecticides and plant growth regulators.

2. Pharmaceutical & Life Science Intermediates

Fluorinated building blocks and advanced intermediates for APIs and speciality pharmaceutical applications (NCE's).

3. Fluorinated Surfactants

Used across paints & coatings, fire-fighting foams, textile treatment and industrial formulations.

4. Speciality Fluoro-Intermediates

Custom manufacturing fluorinated intermediates for speciality chemicals and emerging application areas.

R&D AT RANJITNAGAR-RRDC

GFL integrates advanced research with deep customer insights to offer one of the industry's most versatile and comprehensive portfolios of fluorospecialties. Its solutions across agrochemicals, pharmaceutical intermediates and speciality fluorochemicals are driven by strong process research capabilities and robust analytical development.

The Ranjitnagar R&D Centre (RRDC) has, over the years, built significant expertise in supporting and sustaining business growth, with a key strength in delivering prompt and effective responses to customer requirements. Backed by established credibility with leading innovators in India and global markets, GFL's fluorospeciality products have secured a strong presence across target segments.

Located in Ranjitnagar, India, RRDC plays a pivotal role in product and application development. It serves as a critical bridge between market needs and manufacturing, providing technical expertise and responsive support across speciality chemicals and surfactant businesses.



FSB PROCESS CAPABILITIES









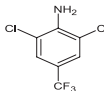





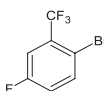




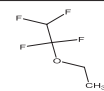
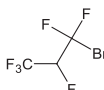
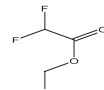





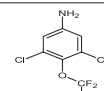
CURRENT TECHNOLOGY	
Halex using AHF	Halex using KF
Balz-Schiemann Reaction	HF-Diazotisation
Vapour Phase Fluorination	Hydro-fluorination by HF-amine Complex
Nitration	High Pressure Ammonolysis
Liquid Phase Bromination	Catalytic High-Pressure Hydrogenation
Alkylation	Grignard Reaction
Telomerisation	Cyclisation
Esterification	Friedel Craft Reaction
Ullmann Reaction	Sandmeyer Reaction
Addition of Ethylene	Condensations
Liquid Phase Ring Chlorination	Photo Catalytic Side Chain Chlorination
Melt Crystallisation	Phosphorylation Reaction
UPCOMING TECHNOLOGY	
Fluorination - Using Elemental Fluorine	

FSB BUILDING BLOCKS

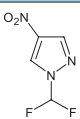
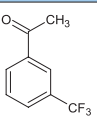
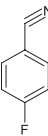
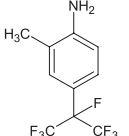

Structure	Name	CAS No.	Structure	Name	CAS No.
$\text{H}-\text{F}$	Anhydrous Hydrogen Fluoride	7664-39-3		Chloroform	67-66-3
	Chlorodifluoromethane (R-22)	75-45-6		Trifluoromethane	75-46-7
	Tetrafluoroethene (TFE)	116-14-3		Hexafluoropropene (HFP)	116-15-4
$\text{Cl}-\text{Cl}$	Chlorine	7782-50-5	$\text{H}-\text{H}$	Hydrogen	1333-74-0
$\text{Cl}-\text{CH}_3$	Chloromethane	74-87-3		Dichloromethane	75-09-2
	Difluoromethane (R-32)	75-10-5	$\text{Cl}-\text{H}$	Anhydrous Hydrogen Chloride	7647-01-0



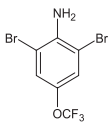
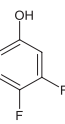
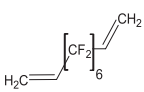
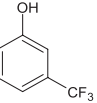
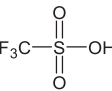
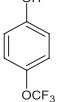

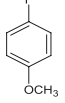
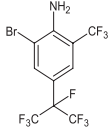
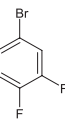
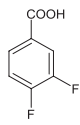
Fluorova™ Commercial Products

Structure	Name	Cas No	Structure	Name	Cas No
	Trifluoromethoxy benzene	456-55-3		2-Aminobenzotrifluoride	88-17-5
	4-Trifluoromethoxy aniline	461-82-5		3-Aminobenzotrifluoride	98-16-8
	4-Trifluoromethyl benzaldehyde	455-19-6		4-Aminobenzotrifluoride	455-14-1
	4-Trifluoromethyl benzyl alcohol	349-95-1		3,4-Difluoronitrobenzene	369-34-6
	2,6-Dichloro-4-trifluoromethyl aniline	24279-39-8		1,2-Difluorobenzene	367-11-3
	Benzotrifluoride	98-08-8		1,4-Difluorobenzene	540-36-3
	3-Fluorobenzotrifluoride	401-80-9		2-Fluoroaniline	348-54-9
	2-Bromo-5-fluorobenzotrifluoride	40161-55-5		4-Fluoroaniline	371-40-4
	5-Chloro-2-nitrobenzotrifluoride	118-83-2		3-Fluorophenol	372-20-3
	Bromotrifluoromethane	75-63-8		Ethyl 1,1,2,2-tetrafluoroethyl ether	512-51-6
	1-Bromo-1,1,2,3,3,3-hexafluoropropane (Br-HFP)	2252-78-0		Ethyl difluoroacetate	454-31-9
	Hexafluoro propene (HFP)	116-15-4		Difluoromethane sulphonyl chloride	1512-30-7
	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propanoic acid (HFPO Dimer Acid)	13252-13-6		2-Chloro-4-fluorotoluene	452-73-3
	Benzotrichloride	98-07-7		3,5-Dichloro-4-(1,1,2,2-tetrafluoroethoxy) aniline	104147-32-2

Fluorova™ Pilot Products

Structure	Name	Cas No	Structure	Name	Cas No
	1-Difluoromethyl-4-nitro-1H pyrazole	956477-64-8		3-(Trifluoromethyl) acetophenone	349-76-8
	4-Fluorobenzonitrile	1194-02-1		2-Methyl-4-heptafluoroisopropyl aniline	238098-26-5
	1,3-Bis(trifluoromethyl) benzene	402-31-3			

Fluorova™ R&D Products

	2,6-Dibromo-4-(trifluoromethoxy) aniline	88149-49-9		3,4-Difluoro phenol	2713-33-9
	1,6-Divinyl perfluorohexane	1800-91-5		3-Trifluoromethyl phenol	98-17-9
	Triflic Acid	1493-13-6		4-Trifluoromethoxy Phenol	828-27-3
	3-Fluoro pyridine	372-47-4		4-Fluoro anisole	459-60-9
	2-Bromo-4-(perfluoropropan-2-yl)-6-(trifluoromethyl) aniline	1207314-86-0		3,4-Difluoro bromobenzene	348-61-8
	3,4-Difluoro benzoic acid	455-86-7			

Fluorova™ Surfactants

Applications	Name
Paints and Coatings	Fluorova™ PS-101 / PA-102 / PS-201 / PA-202 / PS-301 / PA-302
Textile	Fluorova™ T-101 / T-202
Fire	Fluorova™ FR-101 / FR-201

Our Process Capabilities: Halex using AHF | Halex using KF | Balz-Schiemann Reaction | HF-Diazotization | Vapour Phase Fluorination | Hydro-fluorination by HF-amine complex | Nitration | High Pressure Ammonolysis | Liquid Phase Bromination | Catalytic High-Pressure Hydrogenation | Alkylation | Grignard Reaction | Telomerization | Cyclization | Esterification | Friedel craft Reaction | Ullmann Reaction | Sandmeyer Reaction | Addition of ethylene | Condensations | Liquid Phase ring Chlorination | Photo catalytic side chain chlorination | Melt Crystallization | Phosphorylation reaction | Fluorination - Using Elemental Fluorine.

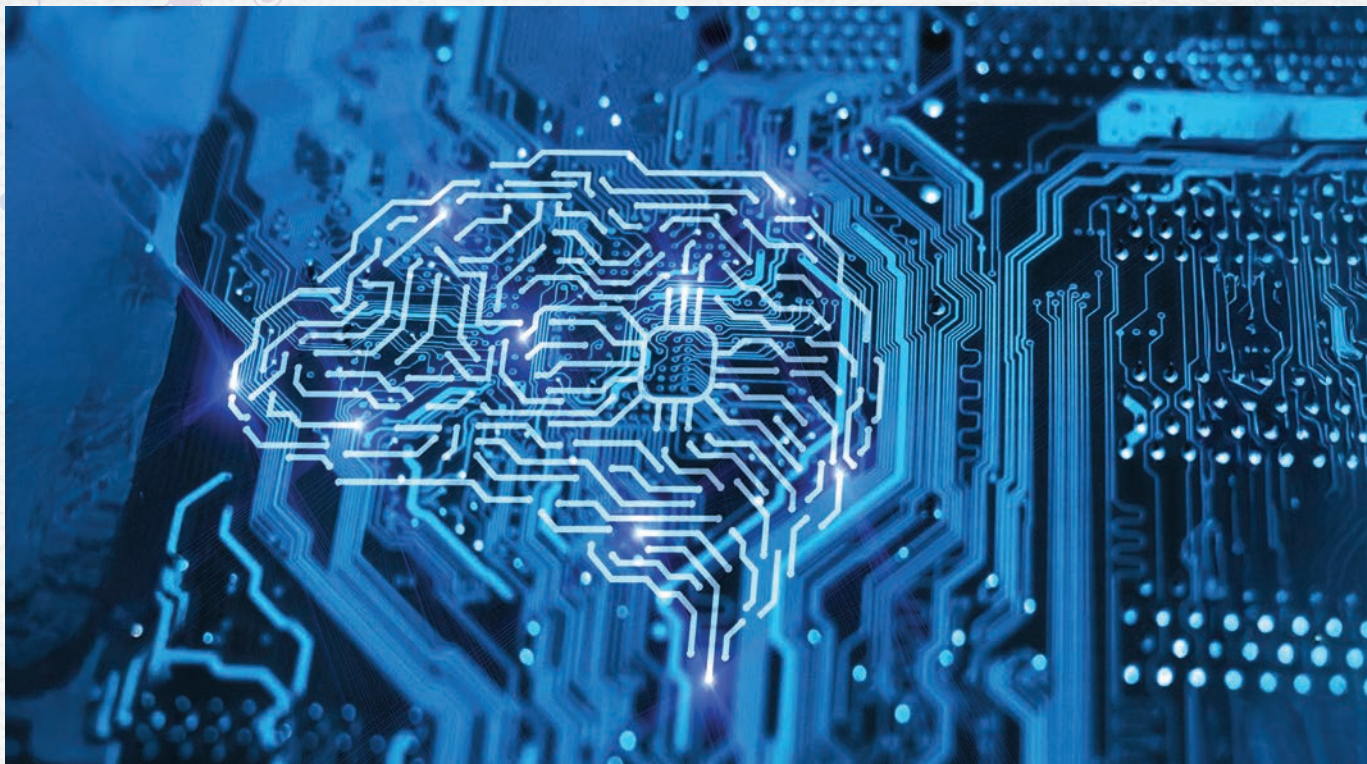
CERTIFICATIONS



GFL MEMBERSHIPS



R&D AT DAHEJ (GFRC)



GFRC

Gujarat Fluoropolymers Research Centre (GFRC) located at Dahej, India, is at the forefront of product and application development activities and serves as an essential bridge between market requirements and manufacturing operations. It focuses on offering genuine expertise and prompt customer support on our products.

GFRC, a team of research scientists and product specialists, is equipped with state-of-the-art application development laboratory including DCS operated pilot reactors. It has collaborated with renowned research institutes globally to work on the areas of new product development and sustainable manufacturing technologies. With this, the centre focuses on delivering customised Fluoropolymer products for novel applications and on developing manufacturing technologies, which have minimal impact on the environment, thereby ensuring a sustainable future for the next generation.

Core functions of GFRC

Customer Support	Production Support	Quality Support
Technical Service	Product Development	Functional Testing
Records and Citations	Process Optimisation	Certifications and Regulatory Compliances
Pre-sales Documentation	Analytical Support	Statistical Analysis and Control
Development of Processing Guidelines		Customer On-site Audits
Application Development		Customer Feedback Analysis
Product Literature		Compliance to Quality Agreements

REGULATORY COMPLIANCE

GFL is committed to “Green Chemistry” and offers environment-friendly products using sustainable technologies. Our extensive research and development in the field of Fluoropolymers enable us to comply with all major global regulations and facilitate our customers to choose greener products manufactured by sustainable technologies.



REACH - Registration, Evaluation, Authorization and Restriction of Chemicals



NSF International- National Sanitation Foundation



EC 1935/2004 - European Commission



EC 10/2011 - European Commission



ROHS - Restriction of Hazardous Substances



FDA - Food and Drug Administration



USP Class VI - United States Pharmacopeia



UL- Underwriter laboratory



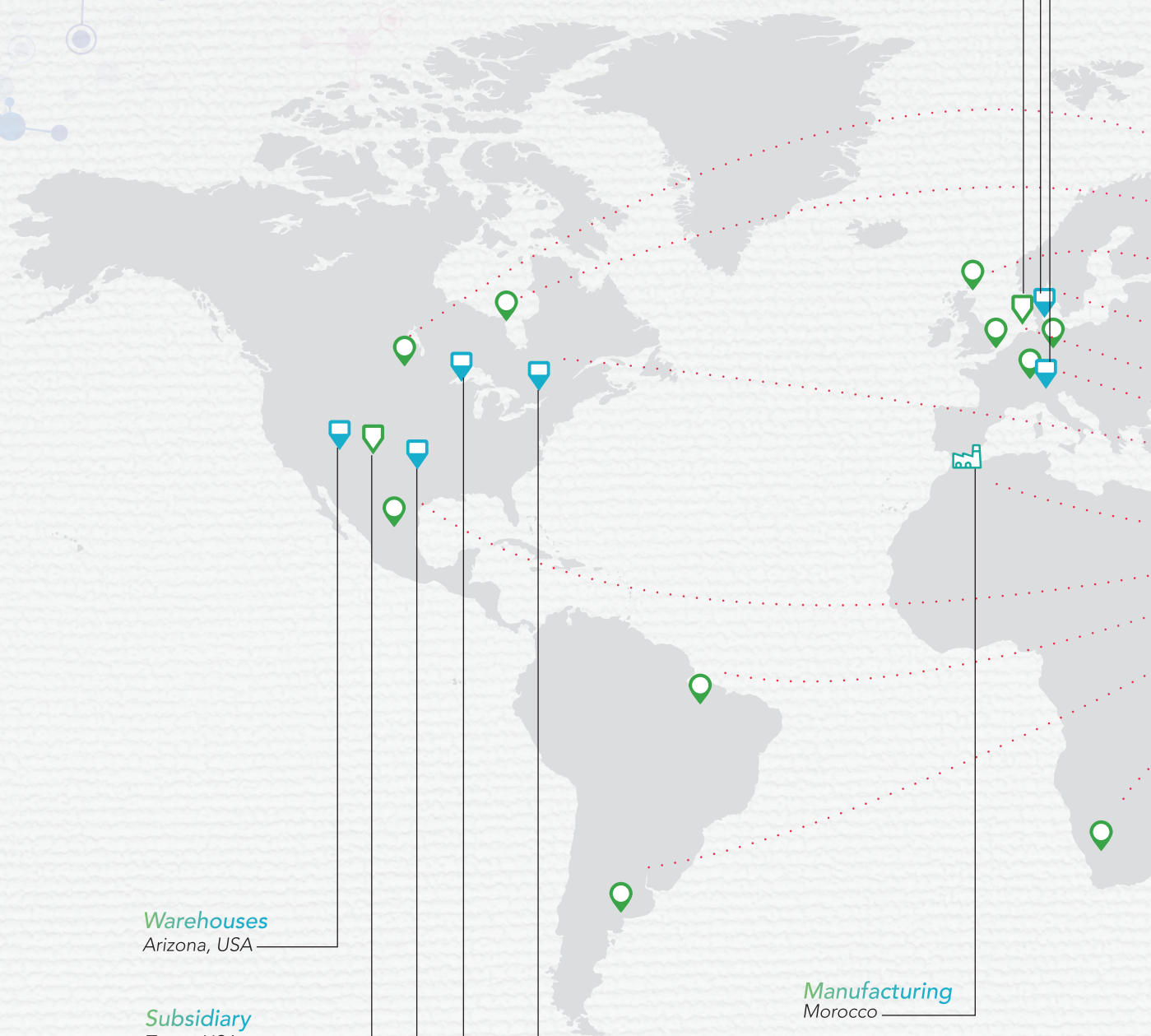
SVHC - Substances of Very High Concern

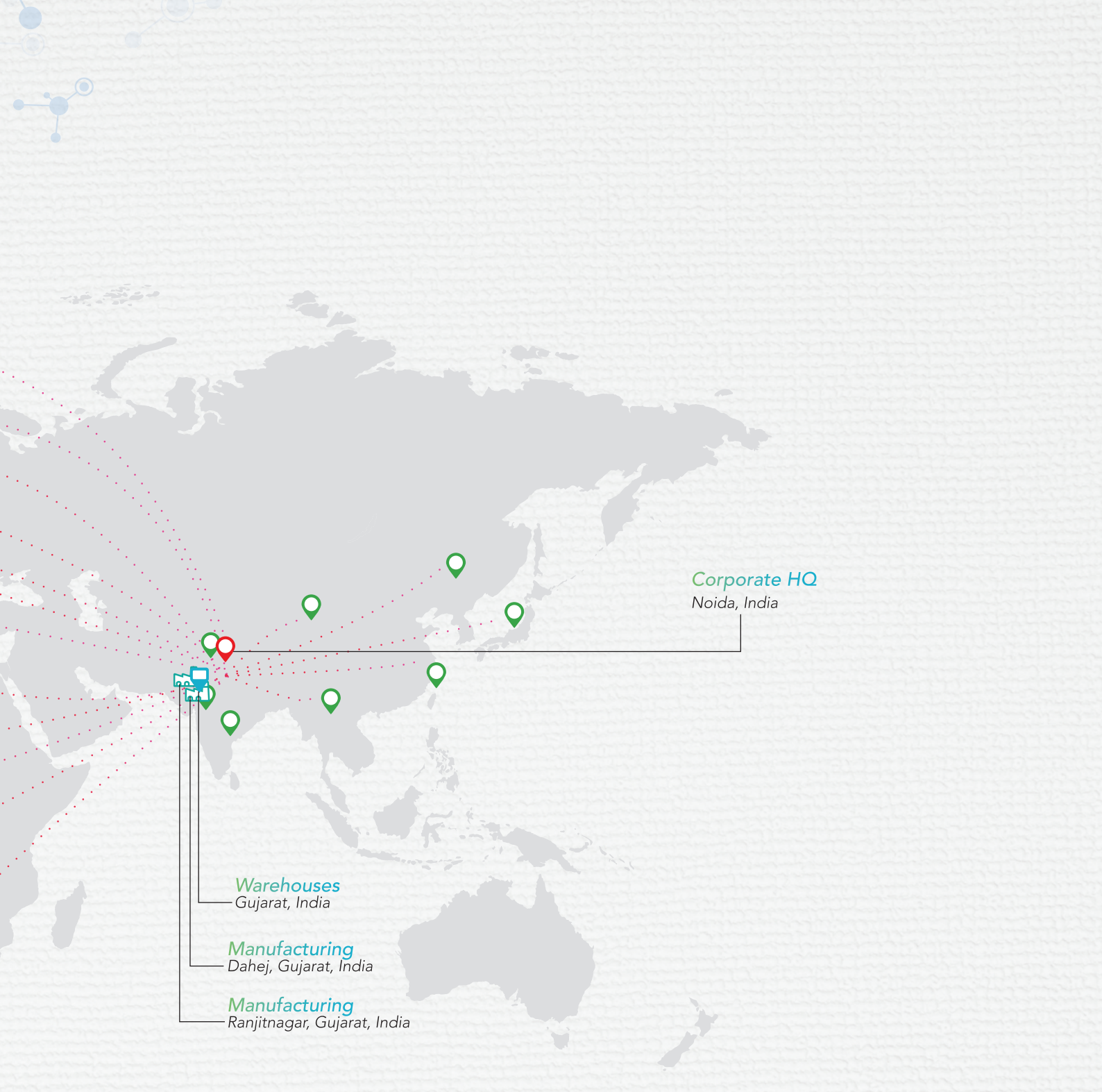
SUSTAINABILITY

GFL is committed to social, environmental and economic sustainability through responsible processes, practices and greener initiatives not only in our products but also in our principles. While consistent operating results and strong financial performance are a business imperative, pursuing success while keeping health and safety paramount, remains one of our enduring values. The company measures the impact of its business operations through the 3 key pillars of sustainability, namely People, Planet & Profit.



GLOBAL PRESENCE





Corporate HQ
Noida, India

Warehouses
Gujarat, India

Manufacturing
Dahej, Gujarat, India

Manufacturing
Ranjitnagar, Gujarat, India

Warehouses

- Gujarat, India
- Texas, USA
- New Jersey, USA
- Arizona, USA
- Indiana, USA
- Hamburg, Germany
- Brescia, Italy

Corporate HQ

Noida, India

Subsidiary

- Hamburg, Germany
- Texas, USA

Manufacturing

- Dahej, Gujarat, India
- Ranjitnagar, Gujarat, India
- Morocco

Sales & Distribution

Americas: Michigan, Philadelphia, Atlanta, New Jersey, Mexico, Brazil and Argentina

EU: Italy and Germany

ROW: India, South Africa, Thailand, China, Korea, Taiwan and Japan



Ranjitnagar Plant Address

Survey No. 16/3, 26,27, Ranjitnagar-389380,
Tal.: Ghogghamba, Dist.: Panchmahal, Gujarat, India

Headquarter

INOXGFL Towers, Plot No.17, Sector 16A Noida-201301, UP, India

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