

# BHARAT GROUP

Protecting Prosperity





# BHARAT RASAYAN LIMITED



"We are committed to delight our customers by supplying high quality products at competitive prices and within the committed timelines"

Inspired by this vision and built on a strong foundation of ethical values, Bharat Group established four decades ago, has come a long way and today it happens to be a USD 265 Million enterprise, with export volume of USD 52 Million. With its three constituent companies viz. Bharat Rasayan Ltd., Bharat Insecticides Ltd. and BR Agrotech Ltd. the Group has established a strong presence in domestic and international markets. **Group companies are ISO 9001:2015, 14001:2015 & OHSAS 18001:2007 certified.**

Bharat Rasayan Ltd. (BRL), Group's flagship company established as a part of backward integration, is one of the biggest manufacturers of technical grade pesticides in India. The company known for its international quality and a broad portfolio consisting of insecticides, herbicides, fungicides, their formulations and intermediates commands a strong customer base.

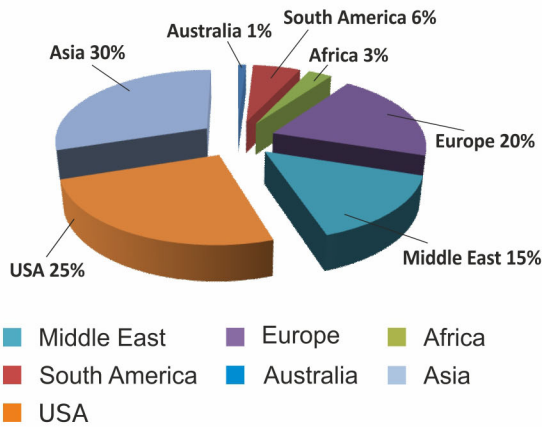
Bharat Rasayan Limited is a Government recognized Two Star Export House. The company, with a dedicated team of scientists has more than 201 international registrations and has been exporting its products to more than 65 countries across the globe. ISO 17025 accredited laboratory not only helps in controlling quality but also supports in registration process. BRL is a preferred supplier for many MNCs for their global requirements of several molecules. The company has Government approved 2 R & D Centres and 2 pilot plants focused on process excellence and supporting international registrations.

We offer Custom Synthesis & Contract Manufacturing services for various Active Ingredients & Intermediates. Our team bring extensive technical expertise of manufacturing tailored to customer's needs regardless of complexity.

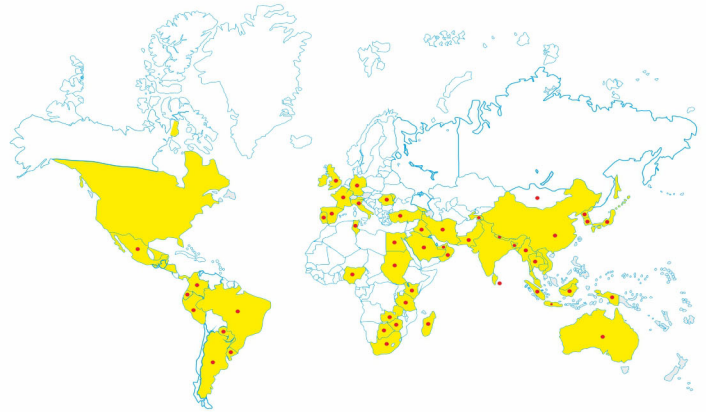
In addition to the existing manufacturing facility with a capacity of 5000 tonnes p.a, BRL has invested over \$50 MN in a state-of-art manufacturing plant at Dahej (Gujarat) on a 12 hectare plot with a capacity of 12300 MTs per annum. This has enabled Bharat Rasayan to upgrade its manufacturing capabilities and add new molecules to its portfolio. Bharat Group's commitment to promote Health, Safety and Environment remains an integral part of it's business. The Group is proud to contribute to the prosperity of farmers and be an exemplary corporate citizen.

**As a Strategy for backward integration, BRL has acquired 10 Hectare land in Sayakha to produce intermediates. Project cost is estimated as USD 35 Millions.**

## CONTINENT WISE EXPORT



## EXPORT MARKETS



Our Registration Department has ready dossiers for many products with full toxicology informations and thus help our customers in registration of products

### GLP data is also available for following Technicals & Formulations

A) TECHNICALS	B) FORMULATIONS
• Zeta Cypermethrin	• Cypermethrin 35% EC
• Alphacypermethrin	• Chlorpyrifos 40% EC
• Lambdacyhalothrin	• Ethion 50% EC
• Cypermethrin	• Bifenthrin 10% EC
• Permethrin	• Propanil 36% EC
• Bifenthrin	• Phenthoate 50% EC
• Chlorpyrifos	• Lambdacyhalothrin 10% WP
• Ethion	
• Phenthoate	
• Captan	
• Deltamethrin	
• Metribuzin	
• Chlorpyrifos Methyl	

### Molecules confirmed Equivalent to EU Reference Source

PRODUCTS	Ref. No.
Alpha Cypermethrin	COP 2012/ 00390
Lambda Cyhalothrin	COP 2012/ 01203
Cypermethrin	
Metribuzin	
Equivalency for Chlorpyrifos Methyl is under process	

### Our four molecules are approved by "WHO/FAO"

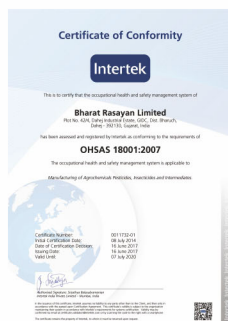
- Alphacypermethrin
- Lambdacyhalothrin
- Chlorpyrifos
- Bifenthrin

### GLP studies of following molecules is under process :

- Diafenthuron
- Tebuconazole

### Data for Other Molecules can also be provided, if quantity is reasonable.

Bharat Group has won many Export Awards from "CHEMEXCIL" and other Government bodies which shows our commitment to "Complete Customer Satisfaction".



## SOME REACTIONS WE DO AT OUR PLANTS

- Acylation
- Chlorination
- Esterification
- Hydrogenation
- Bromination
- Condensation
- Epimerization
- Alkylation
- Nitration
- Chiral Separation
- Diazotization
- Cyanation
- Friedel Crafts reaction
- Reduction
- Pressure reactions
- High temperature reaction
- Side chain halogenation
- Thionyl chloride chemistry
- Free Radical reaction
- Hell-Volhard-Zelinsky reaction

### Formulations:

With the availability of State of art Jet Mill, Air Classified Mill {ACM}, suspension concentration & filling lines, we are producing high quality, Environment friendly latest Formulations, applicable to Agrochemicals, Public Health and Veterinary sectors. A deep inroad has been made by our formulation companies in form of supply of Public Health Formulations such as Alphacypermethrin 5% & 10% WP, Deltamethrin 1.25% ULV, 2.5% SC (Flow), Lambdacyhalothrin 10% WP, 2.5% CS, 5% CS, 10% CS, 25% CS etc. to various Government agencies as per WHO specifications.

A full fledged quality control lab, well equipped with modern testing facilities such as Preparatory HPLC with QDA, Particle Size Analyzer (Malvern), Rheometer/Viscometer (BrookField) apart from Spectrophotometer, HPLC, GC, etc. ensure that quality is delivered to the perfection.

**BHARAT INSECTICIDES LTD. AND BR AGROTECH LTD.** are two Group Companies manufacturing formulations with capacity of 50000KL / 19000MT per annum. All types of Formulations viz. EC / WP / DP / GR / SL / SC / DS / WS / FS / WDG / EW / ME / CS / ZC etc. are produced.

To cater to Indian market we have 26 Branch Offices, 26 Depots and 4800 Dealers, spread all over India, which has given us a pan India presence.

### Setting up a state of art formulation facility at Panoli (Gujarat) in an area of 3 hectares.

**Major Export Regions For Formulations Are :** Middle East, Africa, Latin America, South America, CIS.

### COMMITMENT TO EHS

- In House Facility for Treatment of Solid, Liquid and Gaseous Effluents.
- Primary, secondary and tertiary treatment plant for liquid effluent with defined segregation system based on TDS & COD / R. O. Plant for reduction of COD.
- MEE connected to ATFD System & Incinerator for organic waste.
- Solid waste to TSDF / Member of CETP, BEIL & SEPPL.



# PRODUCT RANGE » FORMULATIONS

## INSECTICIDES

- ACEPHATE 75% SP
- ACETAMIPRID 3% EC, 20% SP & 20% SL
- ACETAMIPRID 0.4% + CHLORPYRIFOS 20% EC
- ALPHACYPERMETHRIN 5%, 10%, 20%, 25% EC & 5%, 10% SC
- ALPHACYPERMETHRIN 5%, 10% WP
- BIFENTHRIN 2.5%, 10%, 20%, 40% EC & 8%, 10% SC & 10% WP
- BUPROFEZIN 15% + ACEPHATE 35% WP
- CARTAP HYDROCHLORIDE 50% SP & 4% GR
- CHLORPYRIFOS 20%, 40.8%, 45%, 48%, 50% EC & 20% WP
- CHLORPYRIFOS METHYL 10%, 20%, 22.4%, 40%, 50% EC & 15% GR
- CHLORPYRIFOS 50% + CYPERMETHRIN 5% EC
- CHLORPYRIFOS 16% + ALPHACYPERMETHRIN 1% EC
- CHLORPYRIFOS 20% + CYPERMETHRIN 2% EC
- CHLORPYRIFOS 50% + CYPERMETHRIN 15% EC
- CHLORPYRIFOS 50% + CYPERMETHRIN 20% EC
- CHLORPYRIFOS 50% + CYPERMETHRIN 25% EC
- CYPERMETHRIN 7.2% + ACETAMIPRID 1.6% EC
- CYPERMETHRIN 3% + DIMETHOATE 25% EC
- CYPERMETHRIN 5%, 10%, 20%, 25%, 35%, 40% SC
- CYPERMETHRIN 5%, 10% EW & 1% DP
- CYPERMETHRIN 3.6% + CHLORPYRIFOS 20% EC
- CYPERMETHRIN 3% + QUINALPHOS 20% EC
- DELTAMETHRIN 0.35%, 1.25%, 2.5% ULV & 2.5%, 5% WP & 0.5% DP
- DELTAMETHRIN 1.25%, 1.5%, 2.5%, 2.8%, 11% EC & 1%, 2.5%, 5% SC
- DELTAMETHRIN 0.72% + BUPROFEZIN 5.65% EC
- DELTAMETHRIN 1.2% + CHLORPYRIFOS ETHYL 20% EC
- DIMETHOATE 30%, 40% EC
- DIMETHOATE 30% + CYPERMETHRIN 15% EC
- DIAFENTHIURON 50% WP
- ETHION 46.5%, 47%, 50% EC
- ETHION 40% + CYPERMETHRIN 5% EC
- FENVALERATE 20% EC & 10% & 20% WP
- FENPROPATHRIN 10%, 50% EC
- FENOBUCARB 50% EC
- FIPRONIL 0.3% GR & 5% SC & 80% WG
- FIPRONIL 4% + ACETAMIPRID 4% SC
- FIPRONIL 40% + IMIDACLOPRID 40% WG
- FIPRONIL 4% + THIAMETHOXAM 4% SC
- IMIDACLOPRID 17.8%, 20% SL & 30.5%, 35% SC & 48% FS & 70% WG
- IMIDACLOPRID 70% WS & 0.3% GR & 48% FS
- INDOXACARB 14.5%, 15% SC & 15.8% EC
- LAMBDA CYHALOTHRIN 10% WP
- LAMBDA CYHALOTHRIN 2.5%, 5% & 6.5% EC
- LAMBDA CYHALOTHRIN 2.5%, 4.9%, 10%, 25% CS
- LAMBDA CYHALOTHRIN 2% + ACETAMIPRID 1.5% EC
- LAMBDA CYHALOTHRIN 1.5% + PROFENOFOS 20% EC
- MALATHION 50%, 57% EC & 25% WP & 90% ULV
- NOVALURON 5.25% + INDOXACARB 4.5% SC
- PERMETHRIN 5%, 10%, 25%, 50% EC & 10% WP, 5% ME
- PHENTHOATE 50% EC
- PROFENOFOS 50% & 72% EC
- PROFENOFOS 40% + CYPERMETHRIN 4% EC
- PROFENOFOS 36% + LAMBDA CYHALOTHRIN 1.5% EC
- PYRIPROXYFEN 10% EC
- QUINALPHOS 25% EC
- TEMEPHOS 1% GR & 50% EC
- THIAMETHOXAM 25% WG & 70% WS & 30% FS & 75% SG
- THIAMETHOXAM 14.1% + LAMBDA CYHALOTHRIN 10.6% SC
- THIAMETHOXAM 12.6% + LAMBDA CYHALOTHRIN 9.5% ZC

## FUNGICIDES

- AZOXYSTROBIN 11% + TEBUCONAZOLE 18.3% SC
- CARBENDAZIM 50%, 46.27% SC & 50% WP
- CARBENDAZIM 12% + MANCOZEB 63% WP
- CAPTAN 50% WP & 80% WDG
- CAPTAN 70% + HEXACONAZOLE 5% WP
- COPPER OXYCHLORIDE 35%, 50% WP
- CYMOXANIL 8% + MANCOZEB 64% WP
- DIFENOCONAZOLE 25% EC
- DIFENOCONAZOLE 13.9% + PROPICONAZOLE 13.9% EC
- DIFENOCONAZOLE 15% + PROPICONAZOLE 15% EC
- DIFENOCONAZOLE 11.4% + AZOXYSTROBIN 18.2% SC
- HEXACONAZOLE 5% EC & 5% SC
- ISOPROTHIOLANE 40% EC
- METALAXYL 35% WS
- METALAXYL 8% + MANCOZEB 64% WP
- MYCLOBUTANIL 10% WP
- PROPICONAZOLE 25% EC
- SULPHUR 80% WDG
- TEBUCONAZOLE 2% DS & 25.9% EC & 25% WG
- THIFLUZAMIDE 24% SC
- THIOPHANATE METHYL 70% WP
- TRICYCLAZOLE 75% WP
- TRICYCLAZOLE 18% + MANCOZEB 62% WP

## HERBICIDES

- 2, 4 D AMINE SALT 58%, 72% SL
- 2-4D 20% + PROPANIL 36% EC
- BISPYRIBAC SODIUM 10% SC
- CLODINAFOF PROPARGYL (PIROXOFOP-PROPINYL) 15% WP
- CLODINAFOF PROPARGYL 9% + METRIBUZIN 20% WP
- CHLORMIURON ETHYL 25% WP
- DIURON 80% WP, WDG
- GLYPHOSATE 41%, 48% SL & 71% SG
- METRIBUZIN 70% WP & 75% WDG
- PARAQUAT DICHLORIDE 24% SL
- PENDIMETHALIN 30%, 33%, 36%, 50% EC & 38.7%, 45% CS
- PRETILACHLOR 30%, 50% EC & 37% EW
- PROPANIL 36% EC & 80% WDG
- PYRAZOSULFURON ETHYL 10% WP
- SULFOSULFURON 75% WDG
- SULFOSULFURON 75% + METSULFURON METHYL 5% WG
- METSULFURON METHYL 20% WG
- METSULFURON METHYL 10% + CHLORMIURON ETHYL 10% WP

## PRODUCT RANGE » TECHNICALS & INTERMEDIATES

### INSECTICIDES

- **CYPERMETHRIN TECH.**  
Purity 93%, 95% Min.
- **PERMETHRIN TECH.**  
Purity 93%, 95% Min.
- **ALPHA CYPERMETHRIN TECH.**  
Purity 97% Min.
- **FENVALERATE TECH.**  
Purity 93% Min.
- **LAMBDA CYHALOTHRIN TECH.**  
Purity 97% Min.
- **CHLORPYRIFOS TECH.**  
Purity 97%, 98%, 99% Min.
- **CHLORPYRIFOS METHYL TECH.**  
Purity 97% Min.
- **ETHION TECH.**  
Purity 95% Min.
- **PHENTHOATE TECH.**  
Purity 92% Min.
- **BIFENTHRIN TECH.**  
Purity 97% Min.
- **THIAMETHOXAM TECH.**  
Purity 97% Min.
- **FIPRONIL TECH.**  
Purity 92%, 95% Min.
- **DIAFENTHIURON TECH.**  
Purity 97% Min.

### HERBICIDES

- **DIURON TECH.**  
Purity 98% Min.
- **CLODINAPOP PROPARGYL TECH.**  
Purity 95%, 97% Min.
- **METRIBUZIN TECH.**  
Purity 95%, 97% Min.
- **PENDIMETHALIN TECH.**  
Purity 95% Min.

### HERBICIDES

- **CHLORIMURON ETHYL TECH.**  
Purity 95% Min.
- **METSULFURON METHYL TECH.**  
Purity 95% Min.
- **SULFOSULFURON TECH.**  
Purity 98.5% Min.

### FUNGICIDES

- **DIFENOCONAZOLE TECH.**  
Purity 95% Min.
- **TEBUCONAZOLE TECH.**  
Purity 98% Min.
- **MYCLOBUTANIL TECH.**  
Purity 92% Min.

### INTERMEDIATES

- **META PHENOXY BENZAL ACETAL (N-1 of MPBD)**  
Purity 92% Min.
- **META PHENOXY BENZALDEHYDE (MPBD)**  
Purity 99%, 99.5% Min.
- **META PHENOXY BENZYL ALCOHOL (MPBA)**  
Purity 99% Min.
- **PARA CHLORO PHENYL ACETIC ACID (PCPAA)**  
Purity 99.5% Min.
- **PARA CHLORO BENZYL CYANIDE (PCBCN)**  
Purity 99% Min.
- **CYPERMETHRIC ACID CHLORIDE**  
Purity 98% MIN. (D.V. ACID CHLORIDE / CMAC)
- **HIGH CIS CMA**  
Purity 99% MIN.
- **HIGH CIS CMAC**  
Purity 99% MIN.
- **HIGH TRANS CMA**  
Purity 98% MIN.
- **HIGH TRANS CMAC**  
Purity 98% MIN.



**BHARAT** RASAYAN LIMITED



**BHARAT** INSECTICIDES LIMITED



**BR** AGROTECH LIMITED