

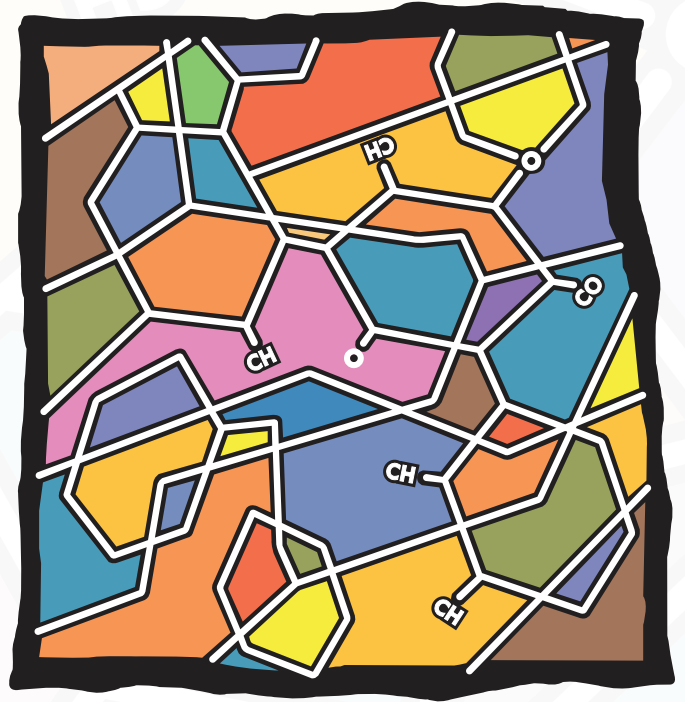


SHAMROCK[®]

Together we can improve the quality of Life[®]



API



INTERMEDIATES



VETERINARY

"YOUR API PARTNER IN INDIA"

Core Business Areas

API's & Intermediates



Building Perfect Chemistry for Life™

- Active Pharmaceuticals Ingredients
- Intermediates
- Fine Chemicals

Veterinary



Dedicated to Animal Health Care™

- Veterinary Raw Materials
- Pre-mixes / Feed Supplements

Research & Development



Where Research is Developing...™

- Custom Synthesis
- Technology Transfer
(Non-Infringing Route of Synthesis) /
Technical Collaboration

Nutraceuticals



Nutrasciences

New Leaf in Nutraingredients

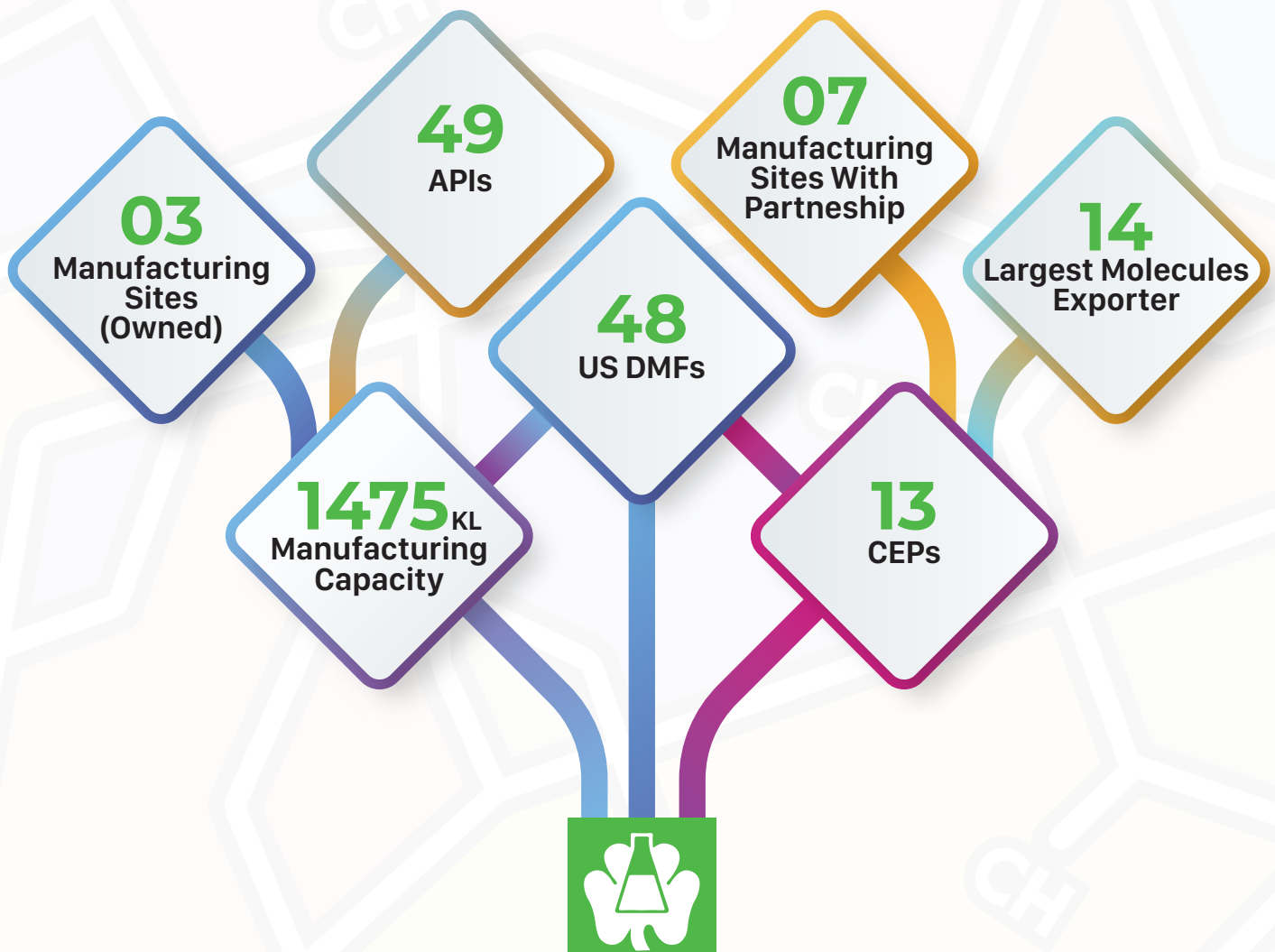
- Nutraceuticals - Dietary Supplements /
Ingredients

Shamrock Pharmagroup

The **Shamrock Pharma Group** is focused on providing customers high-quality APIs & Intermediates from its manufacturing & contract manufacturing facilities.

Shamrock customise the product suiting to customer and market requirements while meeting its quality standards and documentation to provide a long term supply chain for APIs.

Currently Shamrock has a portfolio of 49 APIs, across 3 Shamrock Pharma Group manufacturing sites, 7 Partner & Exclusive Manufacturing sites. Total volumes are more than 1475 KL & Shamrock is the largest exporter of 14 Molecules from India. With the portfolio of 48 USDMFS & 16 CEPs. Shamrock has R&D Center of more than 4000 sq mtrs in Bavla Ahmedabad & other R&D labs which are developing various molecules every year.





APIs • CARBAPENEMS • INTERMEDIATES • R&D

Manufacturing • Exclusive • Contract

- cGMP • EUGMP • USFDA • ICHQ7 Compliant • EUDMF
- USDMF • CEP • Technical & Regulatory Support

"YOUR API PARTNER IN INDIA"

Manufacturing Sites (Owned & Exclusive)



API UNIT I

Unimark Remedies Ltd.
Vapi
Capacity: 220 KI
Status: Shamrock Owned



API UNIT II

Penem Pharmachemi
Bavla
Capacity: 186 KI
Status: Shamrock Owned



API UNIT III

CRAMS
Bavla
Status: Shamrock Owned



API UNIT IV

NB Health Care Pvt. Ltd.
Bavla
Capacity: 120 KI
Status: Partnership



API UNIT V

Punjab Chemicals
Chandigarh
Capacity: 140 KI
Status: Exclusive



API UNIT VI

Suleshvari Pharma
Ankaleshwar
Capacity: 140 KI
Status: Partnership



API UNIT VII

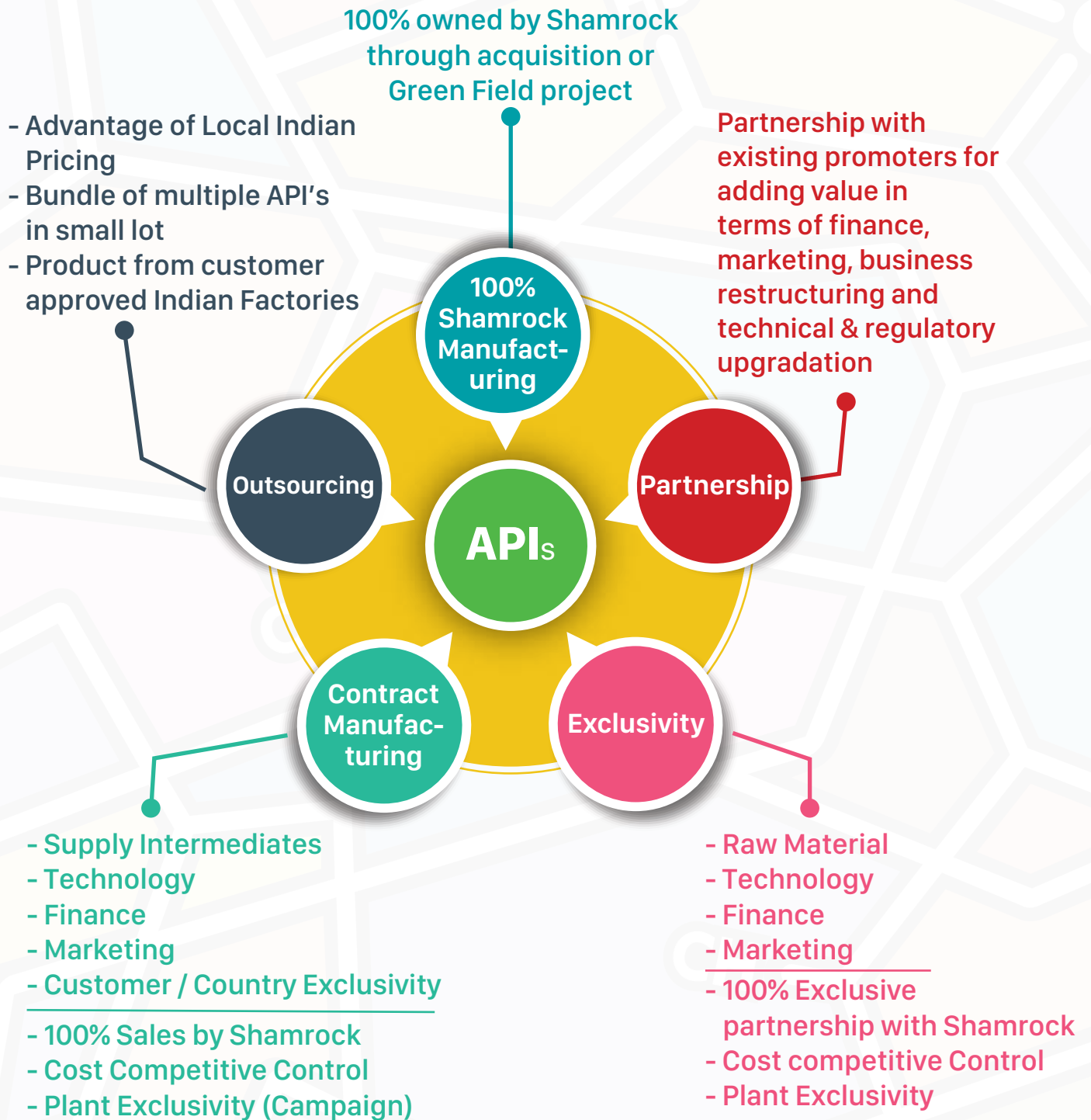
Shankar Soya Concepts
Indore
Status: Exclusive



API UNIT VIII

Chemox
Dahej
Capacity: 120 KI
Status: Exclusive

Manufacturing Business Model



FACTORY APPROVALS:

cGMP, WHO GMP, USFDA, EUGMP, COS, DMF, TIP, KFDA, ANVISA, COFEPRIS, UK MHRA, TGA



UNIMARK REMEDIES LIMITED

(A SHAMROCK PHARMA GROUP)

USFDA / EUGMP APPROVED API FACILITY - VAPI

- **Unimark Remedies Ltd.**, is a manufacturing company which provides affordable generic **APIs** for local and global markets.
- The company has a manufacturing record of more than **18 years** and has been approved, inspected and audited by **US FDA, EU-GMP** and other regulatory bodies on over 6 occasions.
- The company has been recently acquired by **SHAMROCK PHARMA GROUP** and is now 100% owned by them. The new management brings in more accountability, commitment and better upgraded facilities to meet the high quality and regulatory requirements of global markets.
- It has state-of-the-art facilities, latest technological capabilities and has optimized the chemical processes for all its APIs.
- The state-of-the-art facility is designed to cater to all regulated markets including **USA, EU, CANADA** and **RoW**.
- The company's API facilities are approved by **USFDA, EDQM, TGA, UK MHRA** and **WHO**, it's a fully compliant **cGMP facility**.



CARBAPENEM

INTEGRATED FACILITY FROM CHEMICAL TO Sterile (Vials)

- Dedicated Carbapenem facility
- Leading developer of Carbapenems at USFDA compliant facility
- In-house production of Intermediates & Side Chains (No dependency on imports)
- Dedicated facility for Orals Sterile / APIs / FDF - Carbapenems
- Largest Integrated Plant from Chemical to Vials (Sterile)
- Dedicated R&D for Carbapenems
- USFDA / EUGMP / PMDA / KFDA / MHRA / TGA Compliant
- 16 DMFS (Technical & Sterile) for Carbapenems



SHAMROCK CRAMS

Contact Research & Manufacturing Services

• Research • Develop • Manufacture

- R&D Building : 52,000 sq. ft.
- Pilot Plant Capacity : 70 KL with Clean Room
- Major Reaction Capabilities : Hydrogenation, Reduction, Cryogenic Reactions, Chiral Synthesis
- Manufacturing Blocks : 5 Blocks of 240 KL total
- Major R&D Equipment's : Fume Hoods, Hydrogenators & Fermenters
- Plants Equipment : SSR, GLR's, Distillation Columns & Hydrogenators
- Technical Strength : 80

SHAMROCK CRAMS • Research • Develop • Manufacture

- Technical evaluation & Identifying ROS.
- Patent / IP evaluation (Non infringing ROS).
- Setting targeted yields for efficiency.
- Setting quality standards.
- Economic & commercial viability.
- Repeated batches & validation of process R&D stage.
- Process validation at pilot stage / trials.
- Commercialization of pilot trials .
- Setting batch size.
- Scale up to commercial batches at plant level.
- Analytical method validation.
- Impurity profiling, characterization, Identification.
- Stability studies Realtime & Accelerated.
- Regulatory documentation & validation.



Partnership

API UNIT PARTNER NB HEALTHCARE

- API Unit : 7
Exclusive Partnership - Bavla, Ahmedabad.
- Total KL : 140 KL
- No. of Clean Rooms : 3
WHO GMP, EUGMP, USFDA, Standard Compliant / DMF'S under filling: 14 USDMF & 12 CEPS
- APIs : 20 APIs



API UNIT PARTNER CHEMOX

- Total KL : 190 KL
- No. of Clean Rooms : 3
Approved : WHO GMP
Under Approval : EUGMP [USFDA, Standard Compliant]
- DMF's Under Filing : 7
- API Portfolio : 15



Milestone

- Pioneers in developing business from the Latin American Market, Middle East & Central European Market.
- In 1990 pioneered international export marketing and sales from India on a long term contract manufacturing basis with overseas generic FDA approved producers.
- Developed the Iraq market and obtained tender business worth USD 80 Million. To be 1st company from India to transfer technology from India to API stage with buy back agreement.
- 1st company from India to enter Iran market for Intermediates with technology transfer and buy back agreements.
- Similarly 1st company from India to transfer finished products with technology against buy back of APIs with regulatory documentation.
- Largest exporter of Pharmaceutical grade PC-Lecithin from India.
- Largest exporter of Anti-hyperphosphatemic API from India.
- Largest exporter of Lovastatin (Fermentation) from India volume approx 400 tons.
- Developed in-house technical capability and created largest exclusive production of aqueous based polymer, monoamine used for API production.
- Largest exporter of various APIs and Intermediates from India.
- In 2020-21 reached revenue of more than USD 52 million in exports and received government recognized two star export house status.
- In 2023 Acquired "Unimark Remedies Ltd." Vapi Facility & "Carbapenem" Bavla Facility.
- "Outstanding Export Performance Award" by 'Pharmexcil', [A Pharmaceutical Export Promotion Council] Govt. of India.



Quality Assurance & Quality Control

Every gram of product checked by factory QC and counter checked by our centralised corporate QC to meet the exacting specification standards of customers.

Fully loaded QC complying GLP standards with all the latest instrumentation including GC, HPLC, NMR, FTIR, GCMS particle size analyzer, UV and Elemental analysis by **AAS**.

Full validation report available along with Method of Analysis and all technical support.

Impurity profiling with reference standards, working standards.



Technical & Regulatory Affairs Documentation Support

To offer our customers a complete range of services. We have a separate Regulatory Affairs Division which provide all technical documentation and support with regards to APIs, Intermediates and fine chemicals. This mainly includes the following:

- Drug Master File is available - Open part of the DMF as per the EEC format. All the documents can be provided to the customer on request. Drug Master File (USDMF, EQDM, KDMF, JDMF (Japan), ANVISA, COFEPRIS (Mexico)).
- Methods of Analysis - Besides/in addition to the official phamacopoeia.
- Material Safety Data Sheet (MSDS)/BSE - TSE Certificate.
- Reference Working Standards and Purity Standards.
- Impurity Profile complying to ICH guidelines (Organic inorganic residual solvents).
- Toxicity Data.
- Stability Studies.
- Registration Dossiers for FDF - Finished formulations and APIs.
- Bio-Equivalence and Bio-Availability Studies are available.
- Complete Documentation available for each product including advanced intermediates, APIs (Human & Veterinary) and FDFs.
- Technical information package for each product includes Routes of synthesis, impurity profiling, characterization of impurities/isomers, residual solvents, MOA, stability studies/validation.

Due to the above technical support guaranteed by Shamrock, our customers opt to purchase several products from Shamrock and hence we are able to develop a long term business relationship with customers.

R&D / Kilo Lab / Pilot Plant



**New
Molecules are
validated and
commercially
scaled up in
pilot**



**Pilot scale
up of over
15-20 products
every year**

**Pilot trials
conducted
for volumes
from 10 kgs to
to 1000 kgs**



**Pilot
Equipment
volume ranges
from 50 liters
to 1500 liters**

**In kilo lab
scale from
5 liters to
50 liters**



Snapshot



Together we can improve the quality of Life®



FACILITIES

cGMP, WHO GMP, EU GMP, USFDA, ICHQ7, Audited, Approved by several companies

REGULATORY SUPPORT & DMF

USDMF, EUDMF, CEP, WC, Impurities Certificate/ Working standard, Analytical validation, Method validation and Stability data

RESEARCH & DEVELOPMENT

- Custom synthesis, Product technology, R&D to Kilolab-Pilot-Commercial Scaling
- Multi Reaction Capabilities

API SUPPORT

FDF Registration Dossier, FDF Technology Transfer, BE/BA Studies (EU/PICS Approved), Stability Studies, Marketing Authorization, Impurity Profiling

API INTERMEDIATES

Technical DMF, ROS (non-infringing), Impurity Profile, Residual Solvents, Stability Data, MOA Validation, ICHQ7 standard auditable, GMP

TECHNOLOGY TRANSFER FROM INTERMEDIATE TO API, API TO FDF (WITH DOSSIER)

At no cost against agreements





Together we can improve the quality of Life®

Corporate Office:

83-E, Hansraj Pragji Building, Off Dr. E. Moses,
Road, Worli, Mumbai, 400 018. INDIA

Phone : +(91-22) 4077 8877

Website : www.shamrockpharmagroup.com

Email : pharma@shamrockindia.com

Scan QR Code

