



Hikal Limited

Investor Presentation

September 2016



Responsible Care®
The Commitment to Sustainability

Safe Harbor

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Company Overview

Leading Sustainable Technology driven company serving the Crop Protection & Pharmaceutical Industries

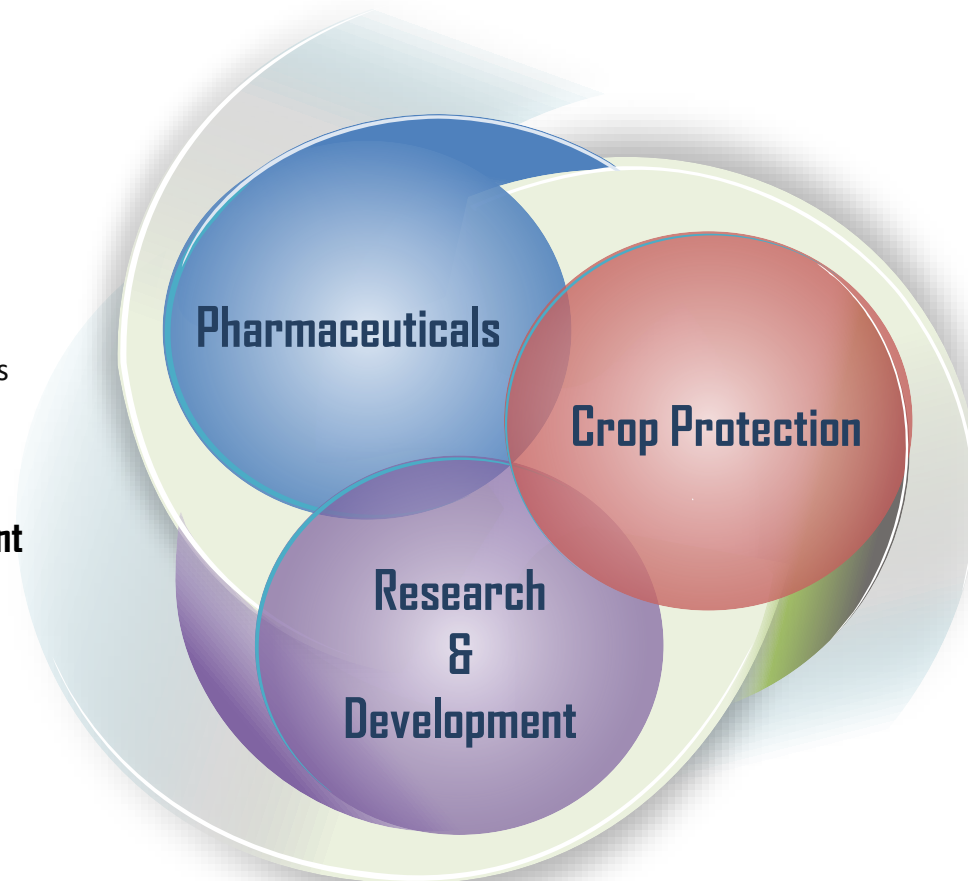
- ✓ Amongst the few Global Company to offer customized, cost effective and sustainable solutions from **R&D to Commercial Manufacturing**
- ✓ One of very few global and only Indian Company to provide APIs for both **Pharmaceuticals and Agrochemicals – Hybrid Model**
- ✓ Preferred Supplier to Large Global Customers across the **Regulated Markets**
- ✓ **First Responsible Care** custom manufacturing Life Science Company in India
- ✓ First Indian Company to be member of **Rx - 360**, a global pharmaceutical supply chain consortium for upholding world class quality standards

1 Pharmaceuticals

- Contract & Custom Manufacturing
- Generics
- Human Health
- Animal Health
- Strong Relationships with Innovators, Mid size Pharma, Biotech & Generic Companies

3 Research & Development

- Offers Right Combination of Capabilities, Quality combined with significant Cost Arbitrage
- Full development & Scale up Service to Innovator Companies , Generic & Biotech Companies



2 Crop Protection

- Custom Synthesis and Contract Manufacturing of Agrochemicals, Intermediates, Biocides and Specialty Chemicals
- Preferred Supplier to Top Crop Protection Companies

Evolution

Crop Protection

Commenced operations with a plant in Mahad.

Second Plant commissioned in Taloja along with Merck, USA



Pharmaceuticals

Diversified into pharmaceuticals business by acquiring Panoli plant from Novartis (formerly Sandoz) and drug manufacturing plant from Wintac (formerly Recon) in Bangalore

R&D

Established R&D center in Pune to focus on R&D and augment pharmaceuticals and crop protection processes

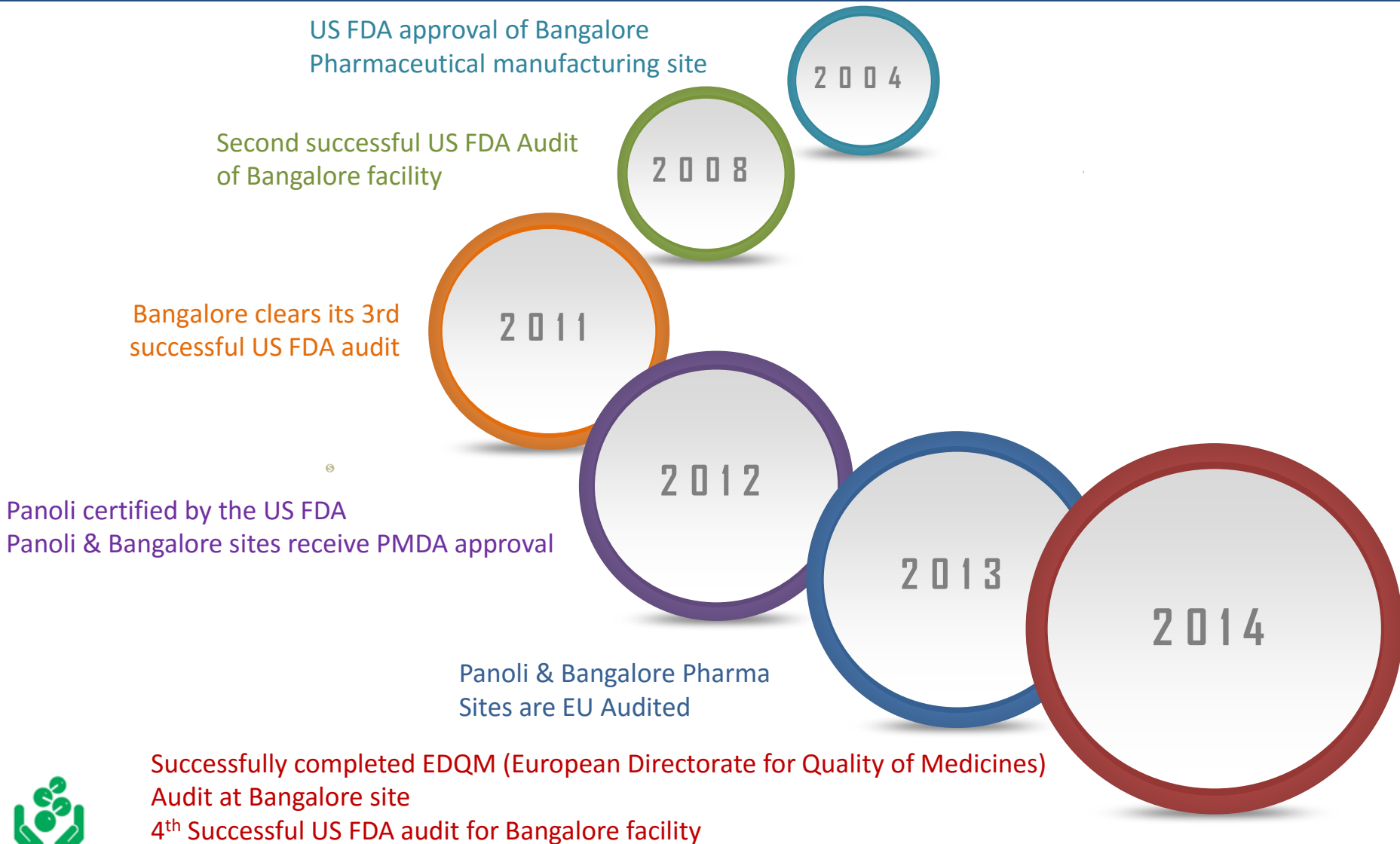


Year	Milestones
1988	Hikal is incorporated
1991	First Manufacturing site at Mahad begins operations - Signed a long term supply agreement with Hoescht India
1995	Signed a long term manufacturing and supply agreement with Merck, U.S., for a large volume Agvet Active Ingredient
1997	Manufacturing of the Active Ingredient for Merck begins at Taloja site
2000	Hikal acquires manufacturing site from Novartis in Panoli, Gujarat
2001	Acquired R&D and Manufacturing site in Bangalore. Hikal enters the Pharmaceutical business
2002	First Pharmaceutical API patent for non infringing process filed in the U.S.
2003	First new API plant commissioned at Bangalore. Multi-purpose Pharmaceutical intermediate plant commissioned at Panoli.
2005	Hikal Scientific Advisory Board formed Signed long term supply agreement with a multinational Crop Protection company
2006	Signed Long term supply contract with global innovator company for commercial supply of API's
2007	Signed long term contract API manufacturing supply agreement with a leading Animal health company
2008	IFC (World Bank) invests 8.27% equity into the company.
2009	Acoris (Research & Development Centre) becomes operational Signed Long term supply contract for an on patent molecule with a global crop protection innovator company.
2012	Hikal wins Aditya Birla Award for "Best Responsible Care Company" in India
2013	Signed a long term supply agreement for human health products with a global biopharmaceutical company
2014	Pharmaceutical Sites, Panoli & Bangalore received EU GMP Approval
2015	New Development & Launch Plant in Bangalore successfully commission for new products from the Pharmaceutical Division Company successfully commissioned Co generation Plant and Biomass boilers at all sites as part of its sustainability program

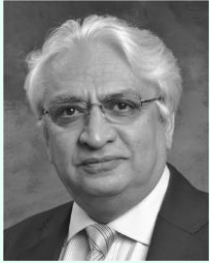
Global Regulatory Compliances



Regulatory Milestones



Board of Directors



Jai Hiremath
Chairman & MD



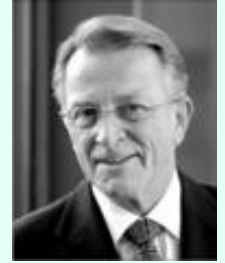
Sameer Hiremath
President & Joint MD



Baba Kalyani



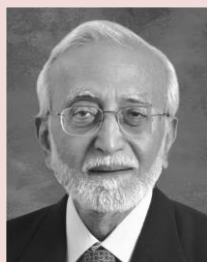
Dr. Wolfgang Welter



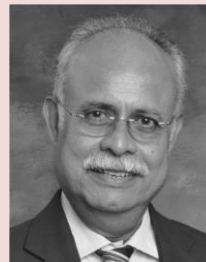
Prof. Axel Kleemann



Sugandha Hiremath



Prakash Mehta



Kannan Unni

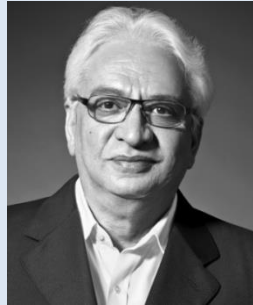


Shivkumar Kheny

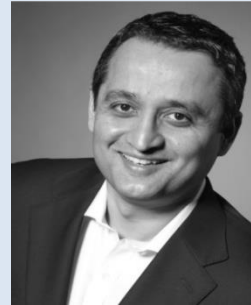


Amit Kalyani

Management Team



Jai Hiremath
Chairman & MD



Sameer Hiremath
President & Joint MD



Anish Swadi
BD& Strategy



Dr. Sudhir Nambiar
R&D



Manoj Mehrotra
Pharmaceuticals



Kumar Inamdar
Crop Protection



Sham Wahalekar
Finance



Kumaar Priyaranjan
HR

Scientific Advisory Board

Dr. Goverdhan
Mehta

- He holds a D.Sc. from the University of Marseilles, France; Ph.D. In Organic Chemistry from Pune University - National Chemical Laboratory; and a Ph.D. from Michigan State University and Ohio State University USA.
- He is a National Research Professor, Eli Lilly Chair, School of Chemistry at the University of Hyderabad and a Bhatnagar Fellow
- Padma Shri in 2000 by the President of India
- Chevalier de la Légion d'Honneur
- Fellow of the Royal Society and a member of the Scientific Advisory Committee to the Prime Minister of India

Prof.
K Nagarajan

- He is B.Sc. (Hons) in Chemistry from Loyola College, Madras, and Ph.D. from the University of Madras. He is a postdoctoral Fellow from Wayne State University, California Institute of Technology, Pasadena and Zurich University, Switzerland.
- He has held various positions as Head, Medicinal Chemistry, Ciba Research Center; Director, R&D of Searle India, among others.
- Bhatnagar Prize in Chemistry and Lifetime Research Award from the Chemical Research Society of India. Dr. K. Nagarajan spearheads the scientific efforts at Hikal.

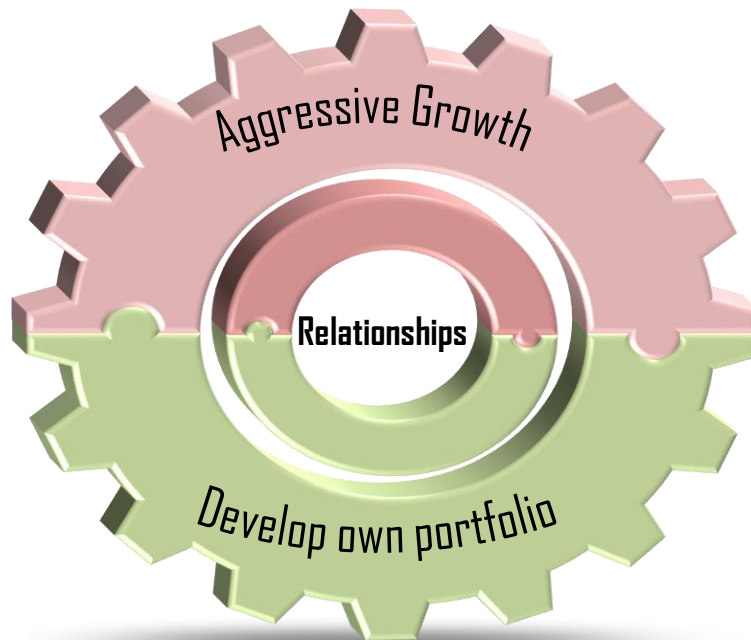
Prof. Axel Kleemann

- He is a Ph.D. in Chemistry from the Johann Wolfgang Goethe University, Frankfurt am Main, where he is the Honorary Professor of Chemistry.
- Prof. Kleemann is the Chairman of the Board of Directors of Protagen AG and a member of the Board of Directors of several non-listed and listed biotech and fine chemical companies
- Co-author of the standard reference book, 'Pharmaceutical Substances'.

Vision

To be a leading reliable & high quality sustainable CDMO player globally

Strategy



Aggressive Growth

- Aggressive growth in Pharmaceuticals , Animal Health & Crop Protection
- Support NCE & Gx Molecules Serving a large range of Customers

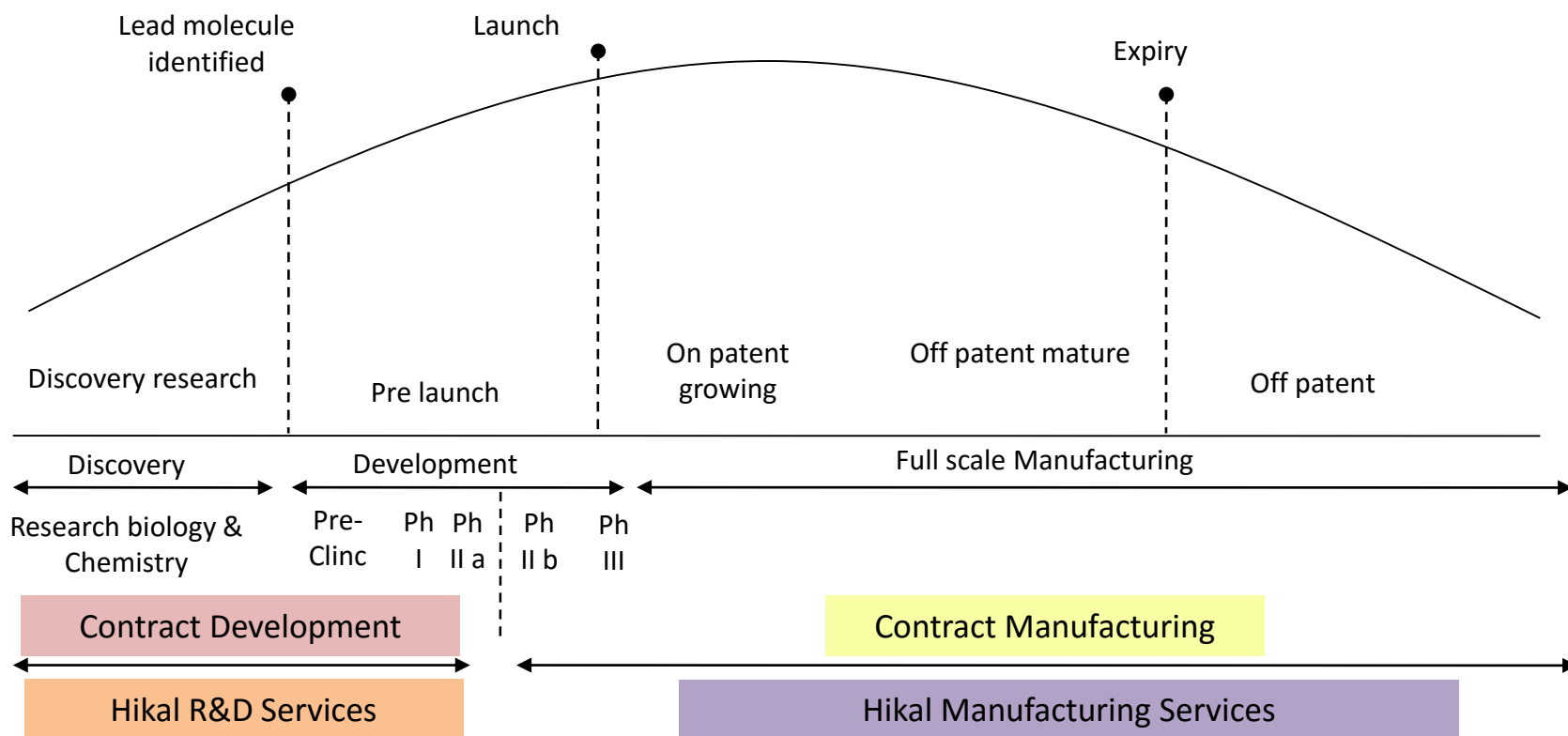
Develop Own Portfolio

- Develop own portfolio of products as next wave of Hikal growth
- Life cycle extension

Positive track record with Existing Customers to expand the Relationships and Target New Customers

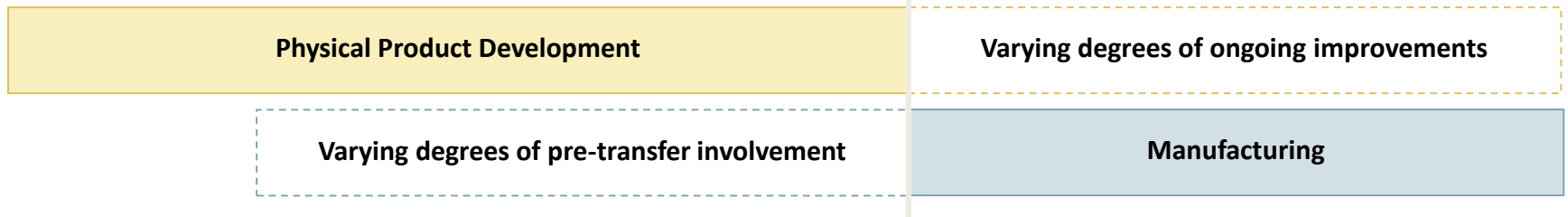
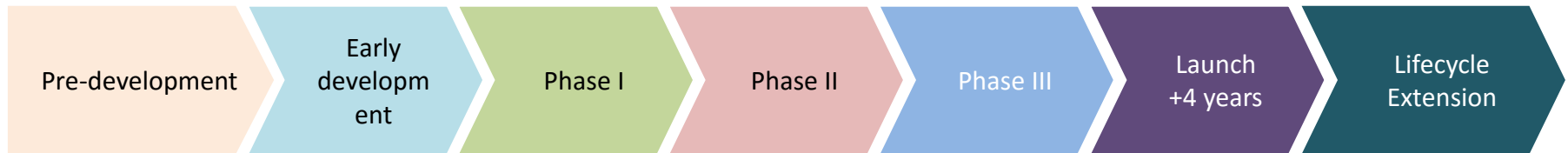
Value Chain

Expertise in Custom Synthesis and Contract Research with capabilities scaling up from Gram to Kilo and Ton level of Production

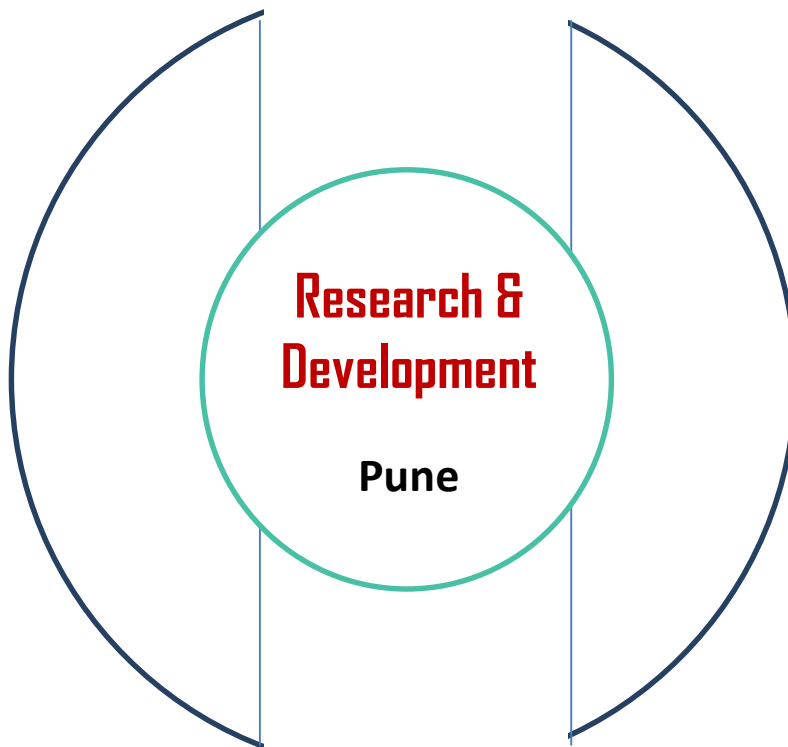
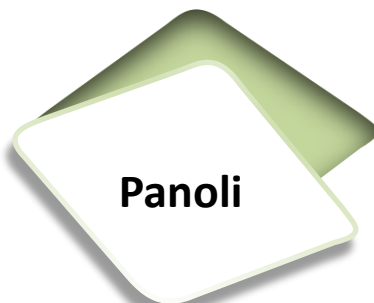


Contract Development & Manufacturing

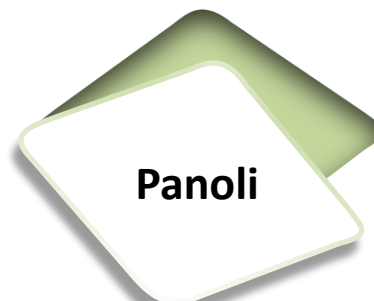
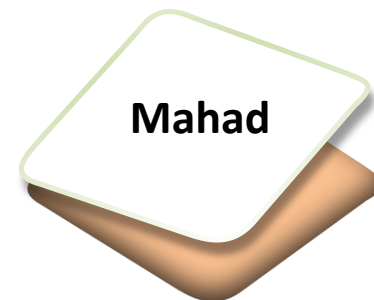
Hikal's Business Model is to provide Services and Support across the Value Chain



Pharmaceuticals



Crop Protection



Manufacturing Capabilities

Pune

R&D Center in Pune becomes operational

2009

Bangalore & Panoli

First new API plant commissioned at Bangalore. Multi-purpose pharma intermediate plant commissioned at Panoli.

2003

Bangalore

Acquired R&D and manufacturing site; enters the Pharmaceutical Business

2001

Panoli

Acquires manufacturing site from Novartis in Panoli, Gujarat

2000

Taloja

Manufacturing of the Active Ingredient for Merck begins at Taloja site

1997

Mahad

First Manufacturing site at Mahad begins operations - Signed a long term supply agreement with Hoescht India

1991

Overview

- Contract Development & Custom Manufacturing (CDMO) projects in Intermediates and APIs
- World's largest supplier of Gabapentin, API for Neuropathic use
- Developing own Generic Portfolio
- Strong Customer Relationships with Large Global Generic & Innovator Cos.



USFDA Approved Site - Bangalore



R&D, Contract, cGMP Kilo Lab - Pune



USFDA Approved Site - Panoli

Pharmaceuticals – Facility Overview

Jigani, Bangalore

- **Products :** API's & Bulk Drug Intermediates
- **Accreditations:** USFDA, KFDA, TGA, PMDA (Japan) & ISO 9001, ISO 14001, OHSAS 18001
- Offers scale up capabilities and can provide validation and launch quantities under cGMP conditions
- Audited frequently by Innovator companies from US, European and Japan
- **Debottlenecking** completed at two API blocks
- Commissioned a large bio-mass boiler & a co-generation plant



Panoli, Gujarat

- **Products:** Bulk Drug Intermediates
- **Accreditations:** US FDA certified, PMDA (Japan)
- ISO 9001, ISO 14001, OHSAS 18001
- Manufactures cGMP Intermediates & Regulatory starting Materials.
- Audited & Approved for supply by Innovator Companies
- **Expanded capacity** for key starting raw materials
- **Evaluating further expansion** plans which would de-risk our Bangalore site for the manufacture of final APIs



Existing Contracts

European Innovator Client

- Long-term contract manufacturing agreement with a European innovator client to exclusively manufacture molecules commercially gaining momentum
- Molecules are performing well in the market & volumes have increased substantially
- These products are expected to grow in the future according to positive indications received from our client

Business in Japan

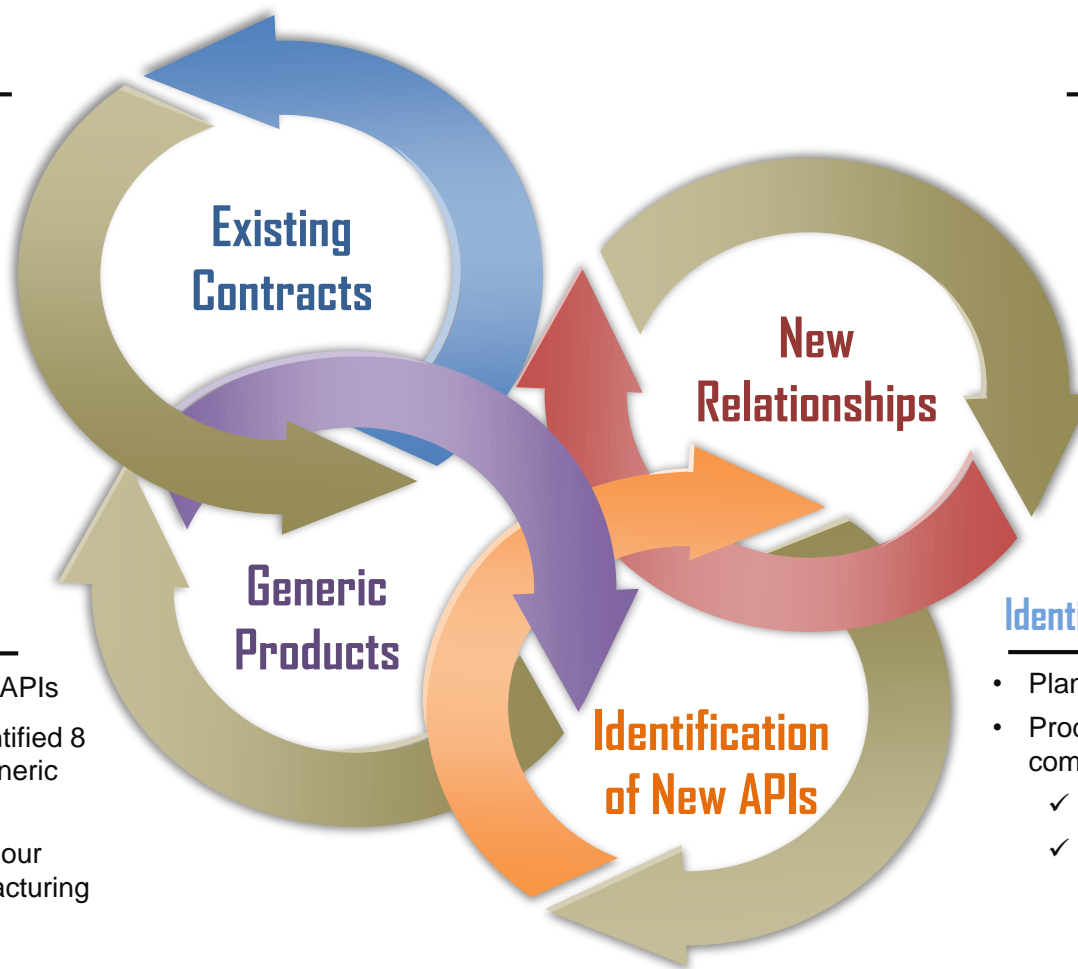
- Track record of meeting quality requirements in Japan established
- Several contract manufacturing opportunities in discussion for intermediates and advanced intermediates
- Several products that have come through R&D have also progressed to the semi-commercial stage
- Commercial manufacturing business to expand over the next few years in Japan

Existing Contracts

- Start with a specific product and expand horizontally
- European Innovator
- USA based Food Ingredient
- Japan - Several contract manufacturing opportunities

Generic Products

- Gain market share in key APIs
- Will file DMFs having identified 8 to 10 new products for generic development
- Increased the volumes of our exclusive contract manufacturing clients for their molecules



New Relationships

- Added New innovator and biotech customers for early stage molecules for contract development
- Projects in various stages of clinical trials
- Approval process is lengthy & uncertain

Identifying New APIs

- Plans to file 5-6 DMFs per year
- Products selected are a combination of :
 - ✓ Clients' interest
 - ✓ Niche molecules where we have a distinct technology advantage to gain a considerable market share
- Pursuing allied niche opportunities in steroids, oncology and peptides

Overview

- Custom Synthesis and Contract manufacturing of Agrochemicals, Intermediates and Specialty Chemicals
- World's largest supplier of Thiabendazole (TBZ)
- On Patent Molecule Manufacturer
- Strong Relationships with Global Leading Agrochemical Companies
- Strong Japanese Presence



Agro Chemical Facility - Taloja



Control Room - Taloja



Agro Chemical Plant - Panoli

Crop Protection – Facility Overview

Taloja, MH

- **Products:** Crop Protection AIs & Intermediates
- **Accreditations:** ISO 9001, ISO 14001, OHSAS 18001 & ISO 17025 (GLP)
- Manufactures Fungicides, Insecticides and Intermediates.
- The site manufactures on patent active ingredients for innovator companies



Mahad, MH

- **Products:** Crop Protection AIs & Intermediates
- **Accreditations:** ISO 9001, ISO 14001, OHSAS 18001
- Manufactures Intermediates
- Audited frequently by several Fine Chemical and Multinational Companies



Key Relationships

Thiabendazole

The product is used on grapes, potatoes, tobacco and vegetables.

The wide use of this product would help the molecule to grow over several years

Versatile product used to control mold and other diseases in fruits and vegetables caused due to fungi, as an anti-parasitic to control roundworms and in materials protection

On-Patent New Generation Product

Fully commercialized in 2013 and volumes are expected to grow in the years to come as registrations come through for countries around the world

Fungicide Exclusively manufacture for a global innovator used on vegetables, potatoes & Specialty crops

It is receiving additional market approvals thereby increasing volumes

Product for Japanese Innovator

Successfully completed the lab trials of an Intermediate

Final stages to manufacture pilot plant batches which will determine the success

Successfully scaled up and provided commercial quantities for a product

Pilot Plant quantities were completed for an additional product - under patent

Product exclusively for Innovator Client

On - Patent Key Advanced Intermediate

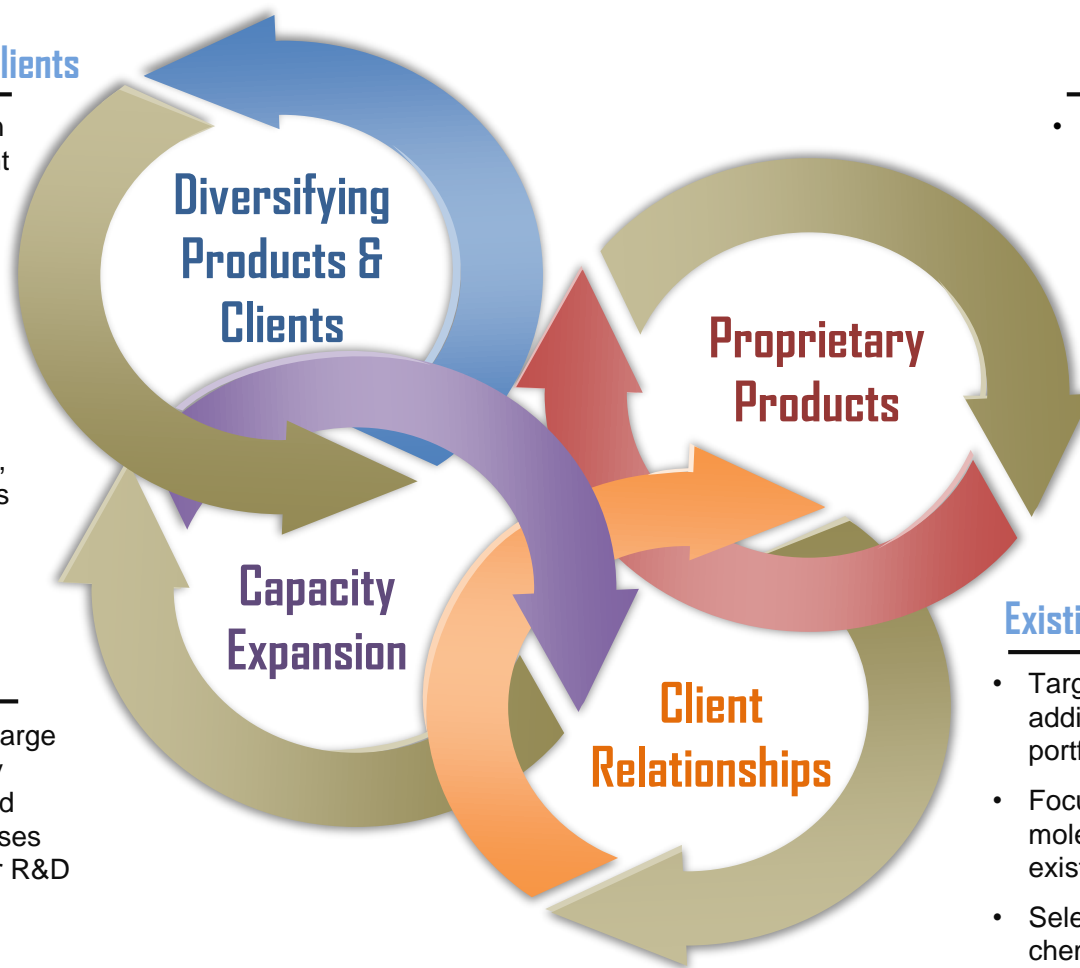
Innovator Clients Blockbuster Product

Diversifying Products & Clients

- Several projects have been completed on development and pilot plant level
- Clients - Japanese, European and mid-size Specialty Chemical Companies
- Products - Advanced Intermediates to final Actives and are Herbicides, Fungicides and Insecticides

Capacity Expansion

- Streamlined some of our large manufacturing facilities by debottlenecking plants and improving existing processes through the support of our R&D



Proprietary Products

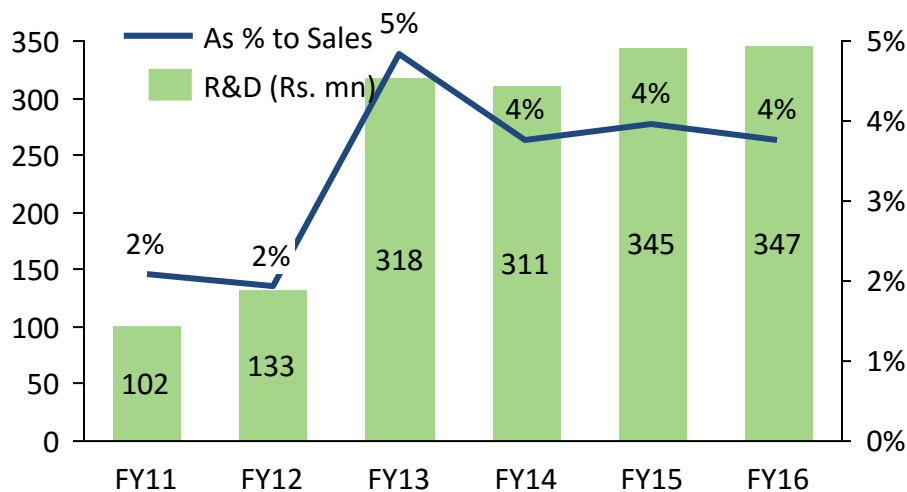
- Started manufacturing & selling our own products developed by our R&D such as Quinalphos, Diuron and 3,5DCA

Existing Client Relationships

- Target existing clients for additional molecules in their portfolio
- Focusing on commercializing new molecules for several clients in existing & new markets
- Select new clients based on chemistries to execute on a commercial scale and in-house technologies developed

Research Molecules in various stages of Phase II & III - Building a pipeline for future commercial supplies

Investments in R&D



Future Plans

- ▶ File 4-5 DMF's every year
- ▶ Continue to generate our own IP through Process Patents

R&D - Benefits Accrued

- Developed a new API using an enzymatic process which is both cost-effective and environmentally-friendly
- Successfully scaled up two intermediates for an API and delivered it to our client for our custom development & manufacturing business
- Started commercial operations at a new development and launch plant for small and medium-sized products in Bangalore
- Filed 4 DMFs as part of our proprietary portfolio in the pharmaceutical division
- Several animal health projects in the pipeline

Our R & D Efforts

Crop Protection

- Several early stage projects in pipeline majority of these are from innovator clients in Japan & Europe
- Completed piloting and validation of two on-patent herbicides for Japanese clients and an intermediate herbicide for an on-patent European innovator company
- Commercialized 2 fungicides for different Japanese companies & a fungicide for an innovator
- A niche acaricide's process was successfully custom-developed & delivered to client for registration
- Processes for several proprietary molecules and a fungicide were developed in-house and will be ready for commercial sale

Pharmaceuticals

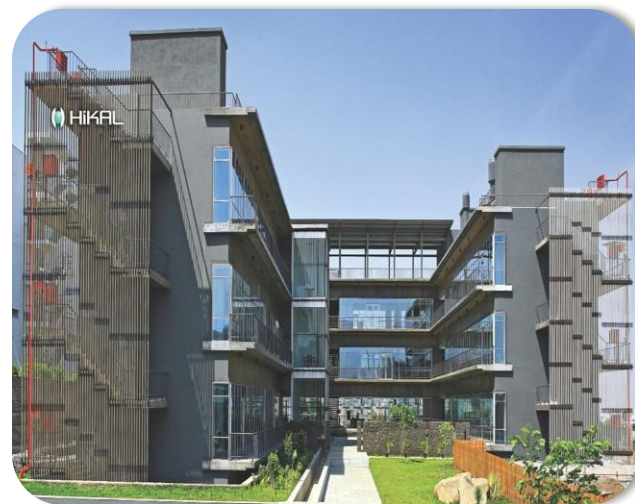
- Filed four DMFs as part of our proprietary portfolio
- DMFs are for Pregabalin which is used for neuropathic pain, Valacyclovir which is an antiviral drug which slows the growth and spread of herpes, Quetiapine which is an antipsychotic and Venlafaxine which is an antidepressant
- Successfully scaled up 2 intermediates for an API and delivered to our client for our custom development and manufacturing business

Animal Health

- Business development of Animal Health portfolio was well supported by our R&D with the synthesis of developmental quantities of three different steroidal APIs
- Scale-up and validation of an animal health medication to kill external parasites for pets was completed for an exclusive client

Pune,
MH

- **Provides process research of APIs and intermediates involving multi-step synthesis**
 - Successful track record in developing non-infringing processes and scaling up from lab to kilo to commercialization
- **Supports clients with:**
 - Route Scouting
 - Contract Research & Custom synthesis
 - Process Development & scale Up
 - cGMP Contract Manufacturing
- **R&D Facility offers :**
 - Troubleshooting support
 - Synthesis of Intermediates and APIs
 - Process Development



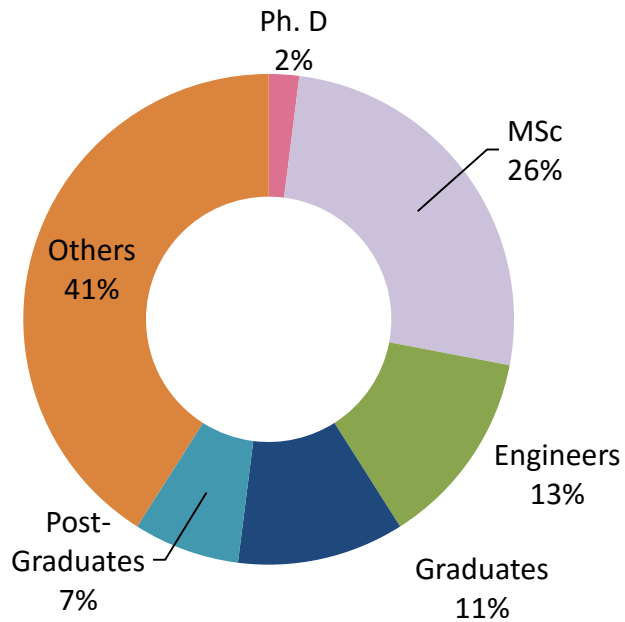
Facilities ensures seamless scale up from Lab to Commercialization

Activities	R&D Pune	Mahad	Bangalore Manufacturing	Panoli	Taloja
Drug Discovery Support					
Analytical method Development	✓				✓
Process Research	✓				
Process Development	✓			✓	✓
Process Improvement		✓	✓	✓	✓
Kilogram Laboratories	✓		✓		✓
Pilot Plants			✓		✓
cGMP compliance			✓	✓	

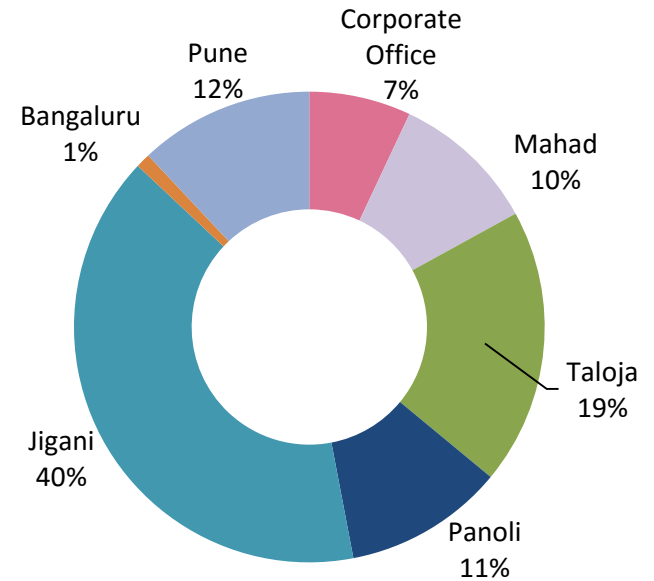
Intellectual Capital

We are creating a Sustainable Culture with the help of our team of Experienced Scientists and Specialists

Qualification



Location



No. of Employees 1,275

Animal Health – A Natural Progression

Chemical
Development

Flexible
Manufacturing
Facilities

Existing
Commercial
Products

Animal
Health
API

Exclusively contract manufactured for a leading US innovator company

Pursuing allied niche opportunities in steroids

US Based
Client

Completed the kilo lab trials of a product which we expect to validate in the next financial year

An alternative economical route was developed for an additional product

Japanese
Client

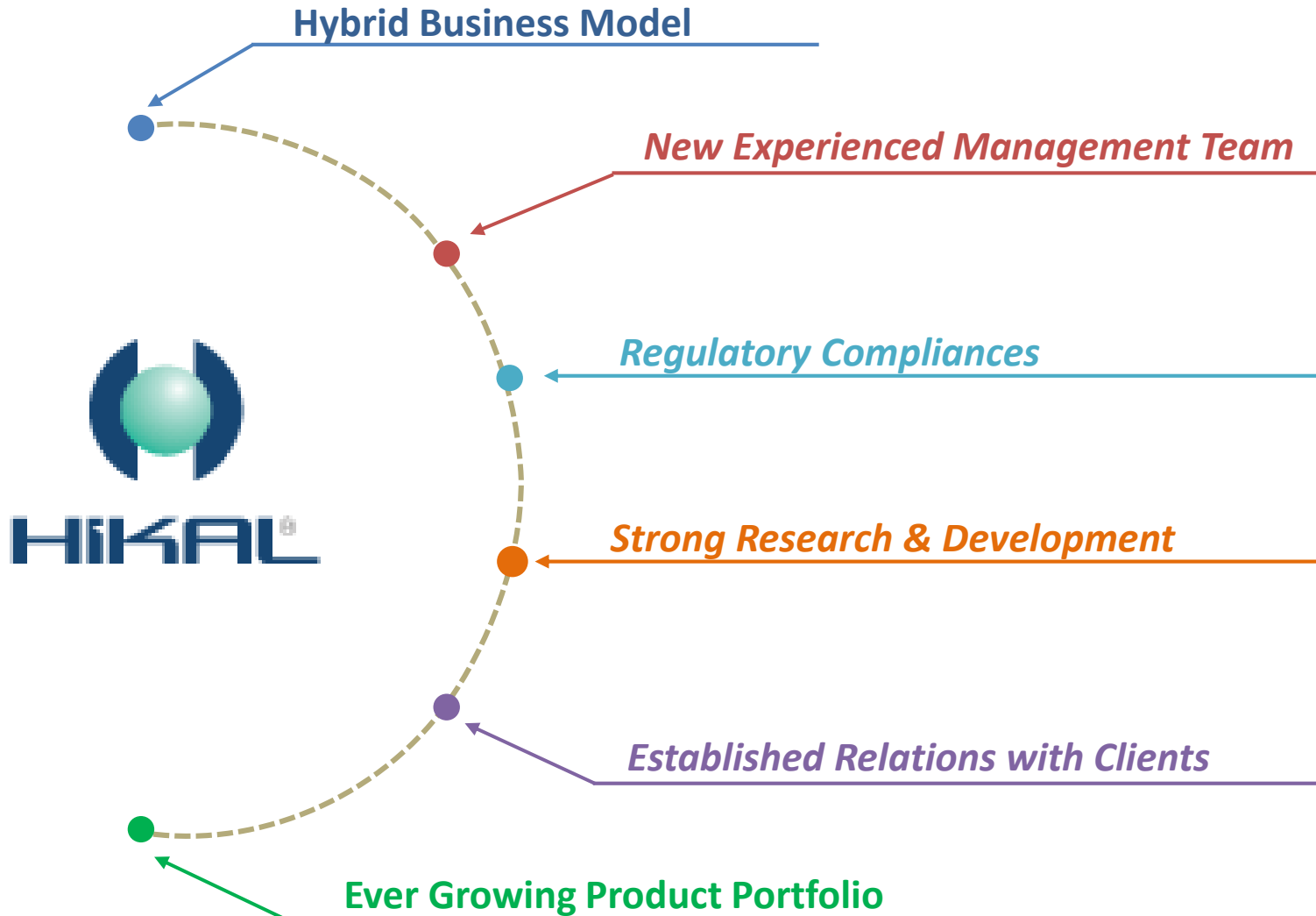
Completed the pilot trials of another Animal Health product for a leading Japanese company

Several
Other
Molecules

Products are a mix of molecules coming off- patent and new generation molecules

Lab work is in process of completion and awaiting scale up to the semi-commercial stages

Key Strengths



Growth Drivers

Uniquely positioned to become an integral part of
Pharmaceutical and Crop Protection Supply Chain

Blocks Built

✓ Asset Creation

✓ Relationships

✓ Research & Development

Growth Drivers

✓ Expansion of Product Portfolio

✓ Increase in Volumes

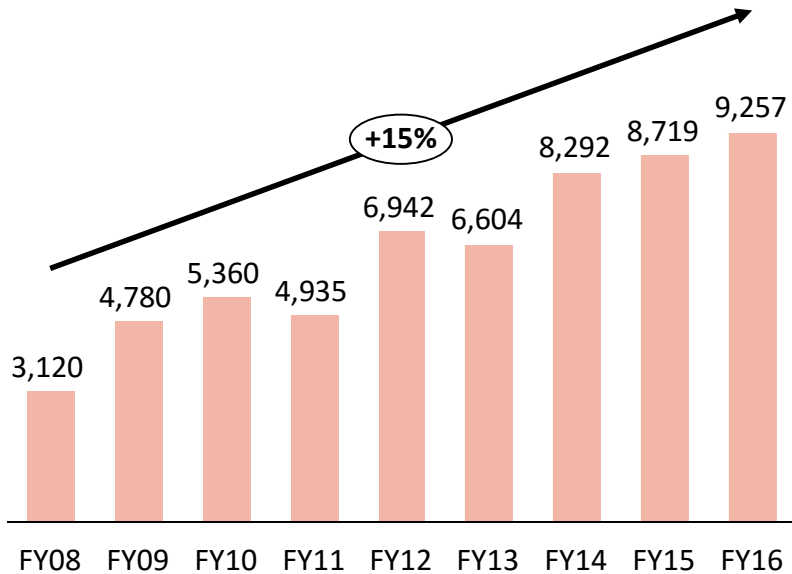
✓ Margin Enhancement



Operational Highlights

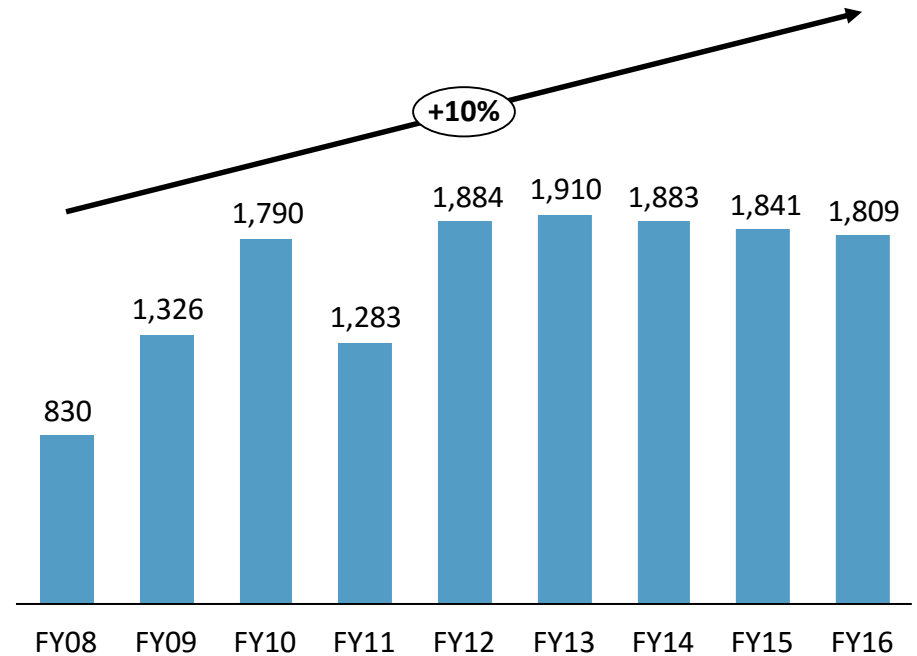
We expect growth in both our divisions with increased volumes from our existing products which provides sustainability to Revenues

Standalone Revenues



Standalone EBITDA

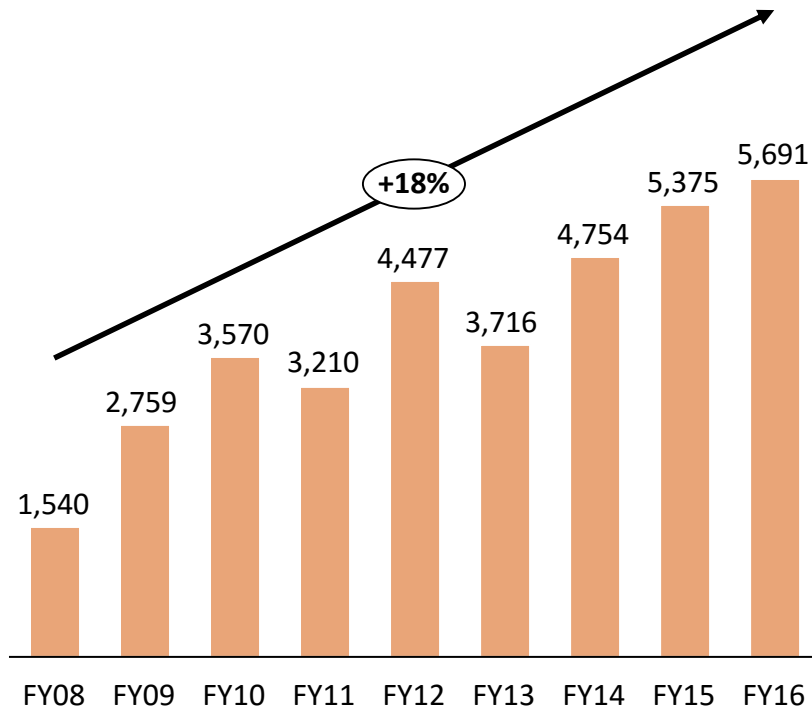
Rs. Million



Operational Highlights

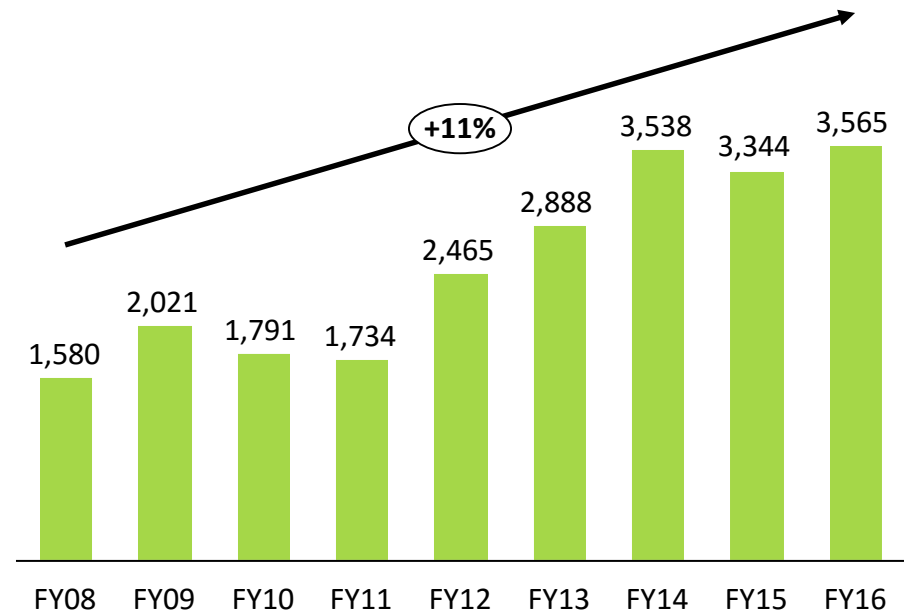
Higher EBITDA Margin on account of Higher Margin Products, Quality Conscious Customers and Efficient Operations

Pharmaceuticals Revenue



Crop Protection Revenue

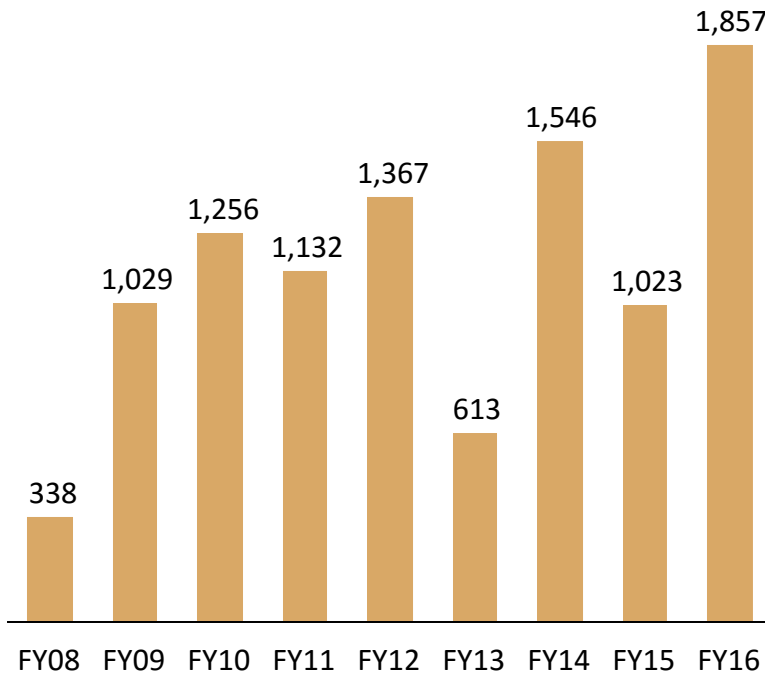
Rs. Million



Capital Expenditure

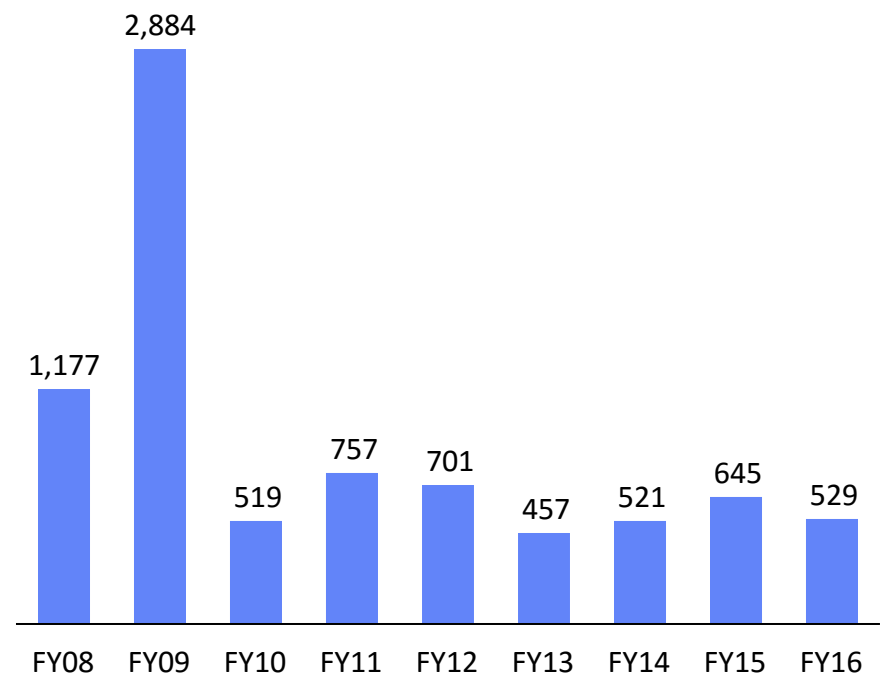
Major Asset Creation gives us an ability to scale-up operations rapidly by making small incremental investments

Cashflow from Operations



Capital Expenditure

Rs. Million



Standalone Profit & Loss

Rs. Million	Q1 FY17	Q1 FY16	Y-o-Y
Net Sales	2,212	1,915	16%
Expenditure	1,768	1,551	
EBITDA	445	363	22%
Margin	20.1%	19.0%	
Other Income	9	5	
Depreciation	178	164	
Finance Costs	136	177	
Exceptional Loss/ (Income)	0	0	
PBT	140	27	436%
Tax	31	9	
Net Profit	110	18	488%
Margin	5.0%	1.0%	

Standalone Profit & Loss

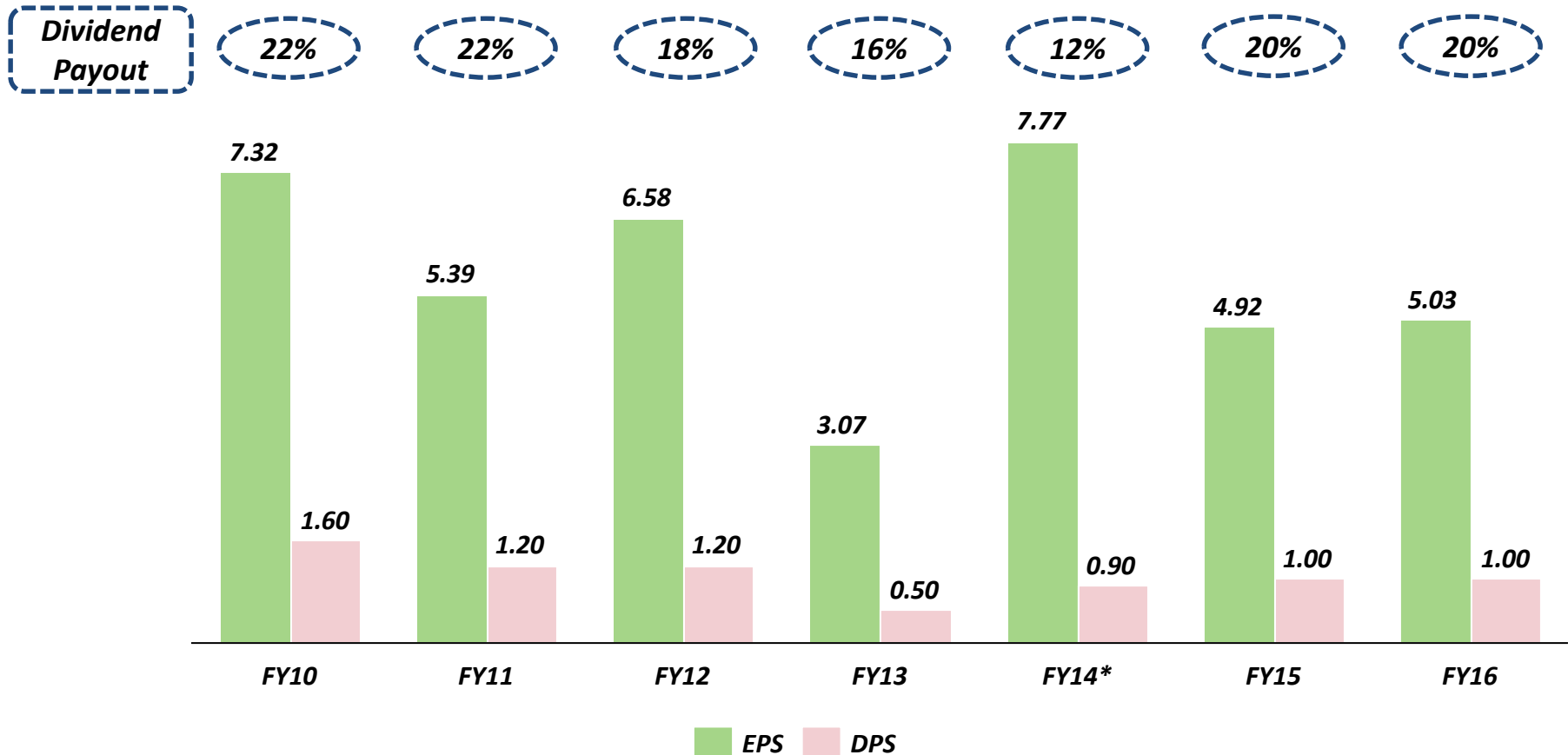
Rs. Million	FY16	FY15	Y-o-Y
Net Sales	9,257	8,719	7%
Expenditure	7,447	6,893	
EBITDA	1,809	1,825	-1%
<i>Margin</i>	19.5%	20.9%	
Other Income	18	16	
Depreciation	673	642	
Finance Costs	622	600	
PBT	533	599	-11%
Tax	120	194	
Net Profit	413	405	2%
<i>Margin</i>	4.5%	4.6%	

Standalone Balance Sheet

Rs. Million	Mar-16	Mar-15
Shareholder's Fund	5,649	5,335
Share Capital	164	164
Reserves & Surplus	5,485	5,170
Non-Current liabilities	3,369	2,417
Long Term Borrowings	2,966	2,014
Deferred Tax Liabilities	301	285
Long Term Provisions	102	117
Current Liabilities	3743	5,178
Short Term Borrowings	1,719	2,310
Trade Payables	1,279	1,371
Other Current Liabilities	745	1,497
Total Liabilities	12,761	12,929

Rs. Million	Mar-16	Mar-15
Non-Current assets	8,089	7,921
Fixed Assets	6,893	7,010
Long-Term Loans & Advances	1,165	879
Non-Current Investments	31	31
Deferred Tax Assets	0	0
Current assets	4,672	5,009
Inventories	2,911	3,140
Trade Receivables	1,123	1,280
Cash and Bank Balances	192	137
Short-Term Loans and Advances	443	409
Other Current Assets	2.7	43
Total Assets	12,761	12,929

Annual Dividend Payout



Board approves Total Dividend of Rs. 1 per share for Face Value of Rs. 2 in FY2016

* - Includes exceptional income of Rs. 2.75 per share (Rs 226 mn net of tax received from disposal of shares of Hikal Employee Welfare Trust A&B)

For further information, please contact:

Company :

Hikal Limited
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