

## SECTORAL REVIEW

# Pharmaceuticals

Gujarat, an established manufacturing base for bulk drugs and formulations with its inherent competitive advantages is poised to capture emerging global opportunities to become a Global Pharmaceutical Hub with around 5400 manufacturing licensees. The State manufactures and exports different dosage forms including tablets, capsules, dry syrup, external preparations, cytotoxic drugs, sex hormone drugs, vaccines, small and large-volume parental, APIs, biopharma products and many others.

Gujarat State is the manufacturer of maximum number of dosages within the country.

The state contributes 40% of India's pharmaceutical turnover and 22% of India's pharmaceutical exports and employs around 55,000 people. The State is the R&D hub with presence of world class centers of companies like Sun, Torrent, Intas and Zydus.

The State is the export hub in India with exports to more than 200 countries and manufactures 90% of intra venous (I.V.) sets manufactured within the country. Gujarat houses approximately 40% of Contract Research Organisations (CROs) in the country and has the highest number of Schedule M compliant manufacturing units in India. There are a large number of WHO GMP compliant and internationally accredited manufacturing facilities in the State.

Key initiatives taken by the government for the industry

- Gujarat is the only State in the country to issue sales license through I.T. application with the help of National Informatics Centre

- The State has allowed setting up of special economic zones (SEZs) dedicated to pharmaceutical sector to boost investments

- Establishment of National Institute for Pharmaceutical Education and Research (NIPER) for human resource development

- Incentives to encourage research and development in the sector in terms of various tax benefits

Hub of academic and research facilities

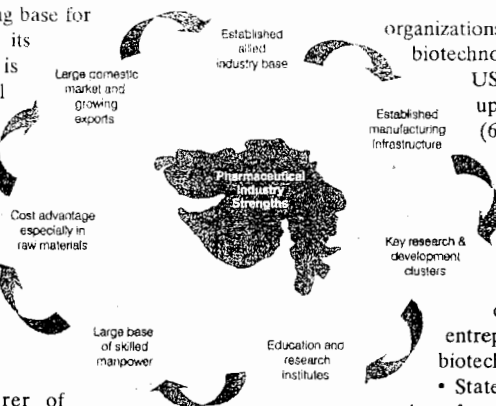
- L.M. College of Pharmacy, Ahmedabad

- National Institute for Pharmaceutical Education and Research (NIPER), Ahmedabad

- B.V. Pharmaceutical Education and Research Development (PERD) Center, Ahmedabad

### Biotechnology

The landscape of Gujarat biotechnology industry consists of more than 50 biotechnology companies and 66 support



organizations. The present annual turnover of biotechnology sector in Gujarat is around USD195-245 million. The sectoral break-up of biotechnology consist of corporates (67%), academic institutions (20%), R&D institutions (11%) and NGOs (2%). Gujarat government has further initiated number of steps to promote the sector:

- Gujarat State Biotechnology Mission (GSBTM), has been constituted to encourage new entrepreneurs and attract investments in biotechnology in the State

- State Biotechnology Policy 2007-2012 has been formulated

- Gujarat Biotechnology Venture Fund (GBVF) is set up by the State to support entrepreneurs with an initial corpus of INR50 crore

- The State has proposed to provide special package of incentives, on case-by-case basis for mega BT projects having an investment of INR 100 crore or more

- GSBTM has initiated concept called mbtEACH to generate skilled human resource in the field of Bioinformatics

- GSBTM has conceptualized GenDioT to promote and develop skilled human resource in Human genetics and genetic diagnosis

Gujarat Biotechnology Cash residential programme for students is formulated

Hub of Academic and Research Facilities

- Department of Biotechnology and Microbiology, MS University, Baroda

- Department of Microbiology, Gujarat University

- Junagadh Agriculture University, Junagadh

- Anand Agriculture University, Anand

- Navsari Agriculture University, Navsari

- Department of Biotechnology, North Gujarat University

- National Research Center for Groundnut, Junagadh

- B.V.Patel PERD Center, Ahmedabad

- Gujarat Cancer Research Institute, Ahmedabad

- Indian Institute of Advanced Research, Gandhinagar

- National Research Center for Medicinal and Aromatic Plants, Anand

The Opportunities Ahead...

- Manufacturing and R&D (Healthcare and Agriculture)

- Infrastructure (Biotech parks and centers of Excellence)

- Bioservices (Contract research and Quality certification facilities)

