

Gujarat

MARCH
2013

THE GROWTH ENGINE OF INDIA



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Gujarat Factfile



Source: Maps of India

- Gujarat is located on the Western coast of India and has the longest coastline of 1,600 km in the country. The state shares its border with Rajasthan, Madhya Pradesh, Maharashtra and the Union Territories of Daman & Diu and Dadra & Nagar Haveli. The Arabian Sea borders the state both to the West and the South-West.

- Ahmedabad, Vadodra, Surat, Rajkot, Bhavnagar and Jamnagar are some of the key cities of the state.
- There are eight agro climatic zones in the state that support cultivation of a wide range of crops.
- The most commonly spoken language of the state is Gujarati. Hindi and English are the other Indian languages used.

Parameters	Gujarat
Capital	Gandhinagar
Geographical area (sq km)	196,024
Administrative districts (No)	26
Population density (persons per sq km)*	308
Total population (million)*	60.3
Male population (million)*	31.4
Female population (million)*	28.9
Sex ratio (females per 1,000 males)*	918
Literacy rate (%)*	79.3

Sources: Government of Gujarat Website,
www.gujaratindia.com,

*Provisional Data – Census 2011

Gujarat in Figures ... (1/2)

Parameter	Gujarat	All-States	Source
Economy			
GSDP as a percentage of all states' GSDP	7.5	100	CMIE, 2010-11, current prices
Average GSDP growth rate (%)*	16.6	15.9	CMIE, 2004-05 to 2010-11, current prices
Per capita GSDP (US\$)	1,918.3	1,324.3	CMIE, 2010-11, current prices
Physical Infrastructure			
Installed power capacity (MW)	23,887.5	211,766.2	Central Electricity Authority, as of January 2013
Wireless subscribers (No)	50,280,123^	864,720,186	Telecom Regulatory Authority of India, as of December 2012
Broadband subscribers (No)	834,250#	13,350,938	Ministry of Communications & Information Technology, as of December 2011
National Highways (km)	4,032	76,818	Ministry of Road Transport & Highways, as of June 2012
Major and minor ports (No)	1 + 41	12 + 187	Indian Ports Association
Airports (No)	14	133	Airport Authority of India

*Calculated in Indian Rupee Terms

^Including Daman & Diu and Dadar & Nagar Haveli

#Including Dadar & Nagar Haveli

Gujarat in Figures ... (2/2)

Parameter	Gujarat	All-States	Source
Social Indicators			
Literacy rate (%)	79.3	74.0	Provisional Data – Census 2011
Birth rate (per 1,000 population)	21.3	21.8	SRS Bulletin (www.censusindia.gov.in), 2012
Investments			
FDI equity inflows (US\$ billion)	8.6	187.9	Department of Industrial Policy & Promotion, April 2000 to December 2012
Outstanding investments (US\$ billion)	1,295.1	11,318.3	CMIE (2011-12)
Industrial Infrastructure			
PPP projects (No)	74	881	www.pppindiadatabase.com
SEZs (No)	32	386	Notified as of January 2013, www.sezindia.nic.in

PPP: Public Private Partnership, SEZ: Special Economic Zone, SRS: Sample Registration System

Advantage Gujarat ... (1/2)

Facilitating Infrastructure

Gujarat has excellent infrastructure as compared to the other states. There are 42 ports, 13 domestic airports and one international airport. The state also has extensive road and rail network. The urban and rural areas have 24-hour power supply. A 2,200 km gas-grid supplies gas to the industrial areas. There are 83 product clusters, 257 industrial estates, 32 notified Special Economic Zones (SEZ) and upcoming infrastructure on the Delhi-Mumbai Industrial Corridor (DMIC). Almost one-third of the DMIC project is taking place in Gujarat alone. A Dedicated Freight Corridor (DFC) is being set up between Mumbai and Delhi. Of the 24 industrial nodes identified across six states where DFC passes, six have been proposed for Gujarat alone.

Industrially Developed State

Gujarat is the 'Petro Capital' of India, the state contributes significantly to the country's petrochemicals production (62.0 per cent), chemicals production (51.0 per cent) and pharmaceuticals production (35.0 per cent). It has achieved the distinction of being one of the most industrially developed states. Accounting for five per cent of the total Indian population, Gujarat contributes 24.6 per cent to India's goods exports.

Availability of Skilled Manpower

Gujarat has good educational infrastructure with premier institutes in management, fashion, design, infrastructure planning and pharmaceuticals. Also, there are industrial training institutes in each district for training manpower for shop floor level. The State Government has many initiatives to encourage innovation in the education sector.

Advantage Gujarat ... (2/2)

Policy Support

Gujarat is the only state in India where the State Government has framed policies in almost all key sectors such as industry, power, ports, road, agriculture and minerals. Gujarat's Industrial Policy, 2009, offers attractive incentives and concessions for prospective investors.

Growing Economy and Industry

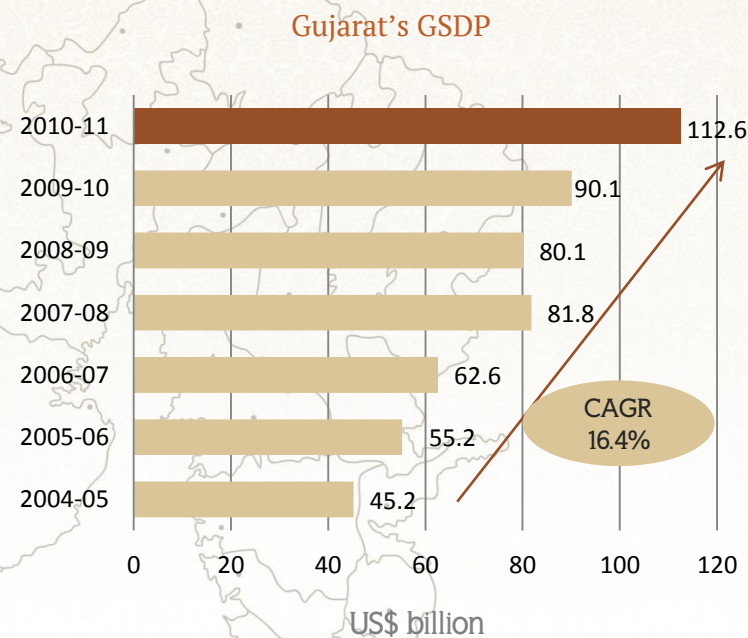
The average annual GSDP (Gross State Domestic Product) growth rate from 2004-05 to 2010-11, was about 16.4 per cent. A robust financial growth and presence of diverse industry sectors with leading national and international companies makes it one of the most attractive investment destinations in the country.

Abundant Natural Resources

Gujarat is a mineral rich state both in terms of capacity reserves and production, as it has large natural reserves of oil and gas and produces the highest amount of crude oil. It also has reserves of bauxite, limestone and clay deposits in India.

Economic Snapshot – GSDP

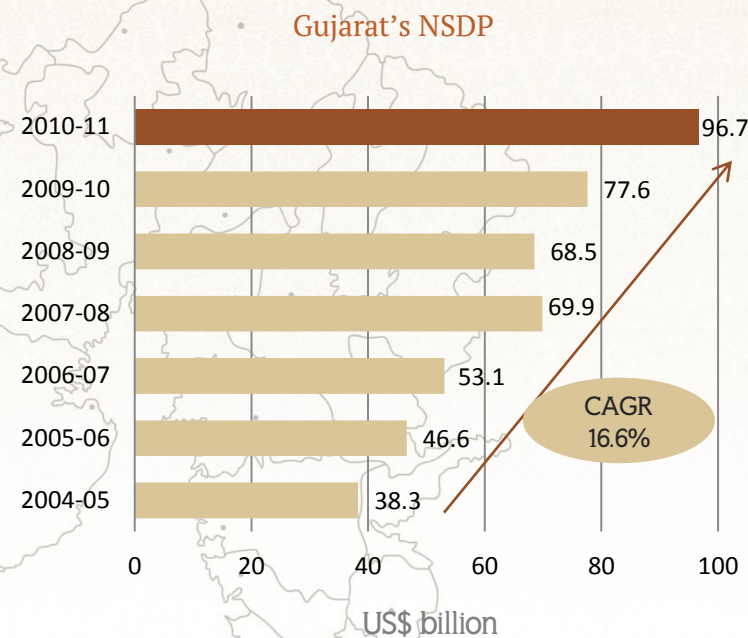
- At current prices, the Gross State Domestic Product (GSDP) of Gujarat was about US\$ 112.6 billion in 2010-11.
- The average annual GSDP growth rate from 2004-05 to 2010-11, was about 16.4 per cent.



Source: CMIE

Economic Snapshot – NSDP

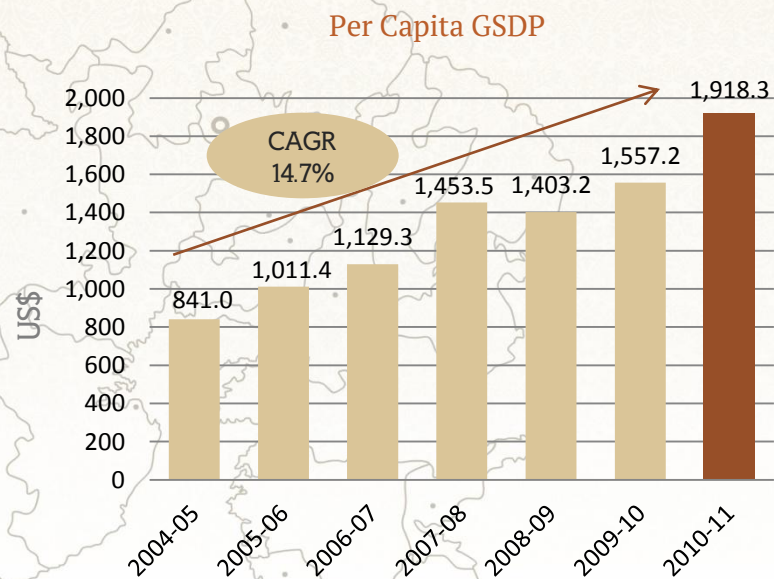
- The Net State Domestic Product (NSDP) of Gujarat was about US\$ 96.7 billion in 2010-11.
- The average annual NSDP growth rate from 2004-05 to 2010-11 was about 16.6 per cent.



Source: CMIE

Economic Snapshot – Per Capita GSDP

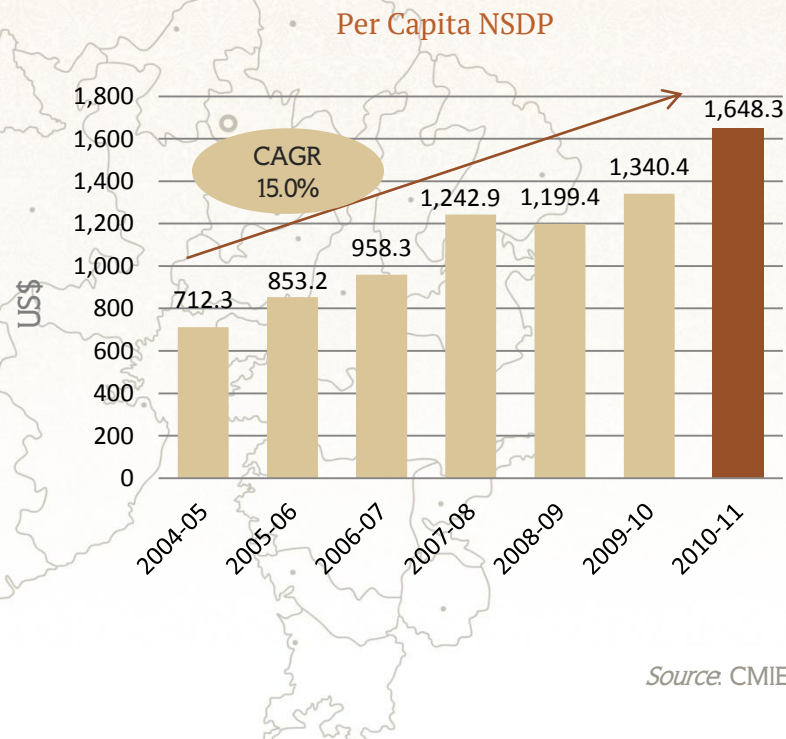
- The state's per capita GSDP in 2010-11 was US\$ 1,918.3 as compared to US\$ 841 in 2004-05.
- The per capita GSDP increased at a Compound Annual Growth Rate (CAGR) of 14.7 per cent between 2004-05 and 2010-11.



Source: CMIE

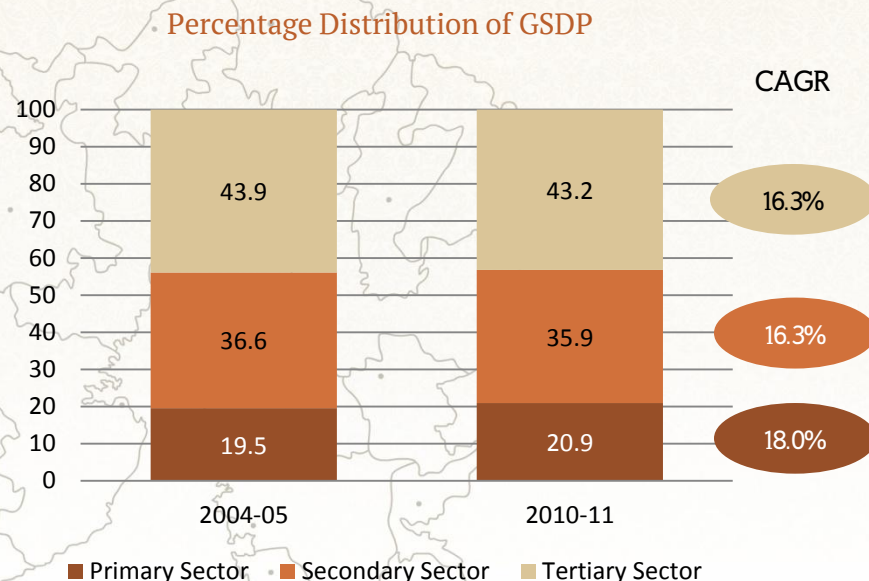
Economic Snapshot – Per Capita NSDP

- The state's per capita NSDP in 2010-11 was US\$ 1,648.3 as compared to US\$ 712.3 in 2004-05.
- The per capita NSDP increased at an average rate of 15.0 per cent between 2004-05 and 2010-11.



Economic Snapshot – Percentage Distribution of GSDP

- In 2010-11, the tertiary sector contributed 43.2 per cent to the state's GSDP at current prices, followed by secondary sector (35.9 per cent) and primary sector (20.9 per cent).
- At a CAGR of 18.0 per cent, the primary sector has been the fastest growing among the three sectors from 2004-05 to 2010-11.
- The tertiary sector grew at a CAGR of 16.3 per cent between 2004-05 and 2010-11. The growth has been driven by trade, hotels, real estate, finance, insurance, transport, communications and other services.
- The secondary sector grew at a CAGR of 16.3 per cent between 2004-05 and 2010-11. It was driven by manufacturing, construction and electricity, gas & water supply.



Source: CMIE

Economic Snapshot – Agricultural Production

- Gujarat has a robust agricultural economy; the total crop area covers more than 50.0 per cent of the state's total land area.
- In 2011-12, the total food grain production in the state was around 9.06 million tonnes and the total oilseeds production in the state was around 4.93 million tonnes.
- Sugarcane is the major crop in the state followed by cotton, wheat, groundnuts and potato. The total sugarcane production in the state was around 14.17 million tonnes in 2011-12.
- The other major crops grown in the state include tobacco, coconuts, rice, onion, jowar (sorghum), bajra (millets), oilseeds, maize, tur and gram.
- In 2010-11, banana production in the state was around 3.90 million tonnes.

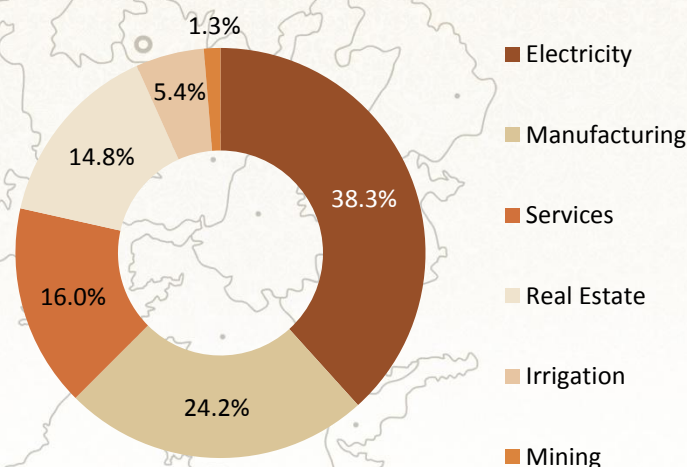
Crop	Annual Production – in 2010-11 ('000 metric tonnes)
Sugarcane	14,176*
Cotton*	12,000^
Wheat	4,100*
Banana	3,978
Groundnut	3,575
Potato	1,881.8
Rice	1,764*
Onion	1,514.1
Bajra (millet)	1,501
Maize	978
Tobacco	281
Gram	200
Coconut	108

Sources: Socio-Economic Review of Gujarat, 2011-12, Indian Horticulture Database – 2011, National Horticulture Board, Department of Agriculture and Cooperation, Government of India, Reserve Bank of India
^'000 Bales (170 kgs each)
*in 2011-12

Economic Snapshot – FDI Inflows & Investments

- According to the Department of Industrial Policy & Promotion (DIPP), the cumulative FDI inflows from April 2000 to December 2012 amounted to US\$ 8.6 billion.
- In 2011-12, outstanding investments in the state were around US\$ 1.29 trillion.
- Of the total outstanding investments, the electricity sector accounted for around 38.3 per cent followed by manufacturing sector at 24.2 per cent.

Break up of Outstanding Investments by Sector (2011-12)



Source: CMIE

Economic Snapshot – Export Trends

- In 2010-11, Gujarat contributed 24.6 per cent to India's total exports of goods.
- Exports include products from sectors such as textiles, petroleum, chemicals, pharmaceuticals, engineering, gems and jewellery.
- Export products from intermediate and minor ports include naphtha, petrol, clinker, cement, oil cakes, bauxite, paraxylene, salt, soda ash, food grains, cement clinker, ethylene, Pet-cock etc.
- The total cargo handled by the Kandla Port was 82.5 million tonnes during 2011-12.
- Gujarat is the largest exporter of cotton (60.0 per cent) in the country.

Sources: Industries Commissionerate, Government of Gujarat, Socio-Economic Review of Gujarat 2011-12, Economic Survey of India 2011-12, Ministry of Shipping, Government of India

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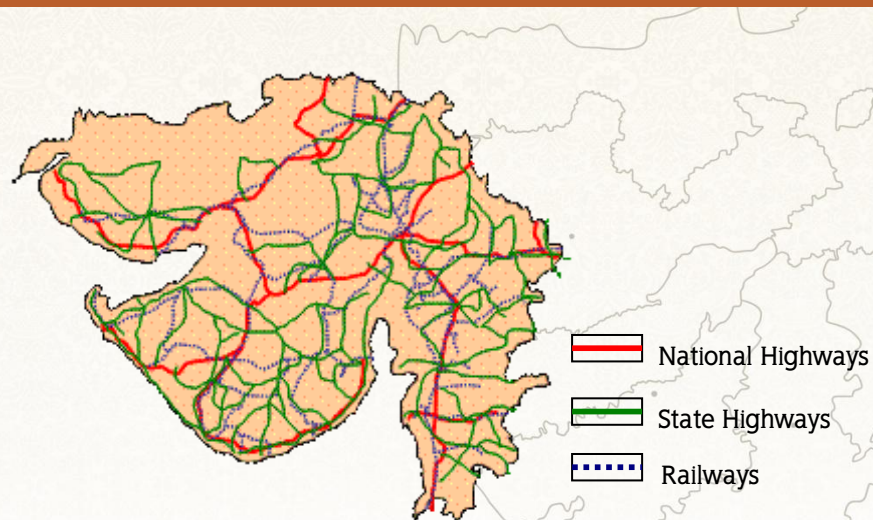
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Physical Infrastructure – Roads



Source: Gujarat State Road Development Corporation

- Government of Gujarat through Gujarat Infrastructure Development Board (GIDB) has prepared a vision document, Blueprint for Infrastructure in Gujarat (BIG) – 2020. It has identified a shelf of projects and investments required across road sector to be implemented on priority basis for the inclusive growth of the state.
- 'Pragatipath Yojana', a State Government initiative introduced in 2005, envisages the development of nine high-speed corridors and widening of highways to connect the tribal, coastal, industrial and rural areas with mainstream areas.

Road Type	Road Length (km)
National Highways	4,032
State Highways	18,460
Major District Roads	20,530
Other District Roads	10,254
Village Roads	21,628

- As of March 2009, the state has around 18,460 km of State Highways, 20,530 km of Major district roads, 10,254 km of Other district roads and 21,628 km of Village roads.

- As of March 2011, 90.6 per cent of the total roads in the state were surfaced.

Sources: Ministry of Road Transport & Highways, Socio-Economic Review of Gujarat, 2011-12

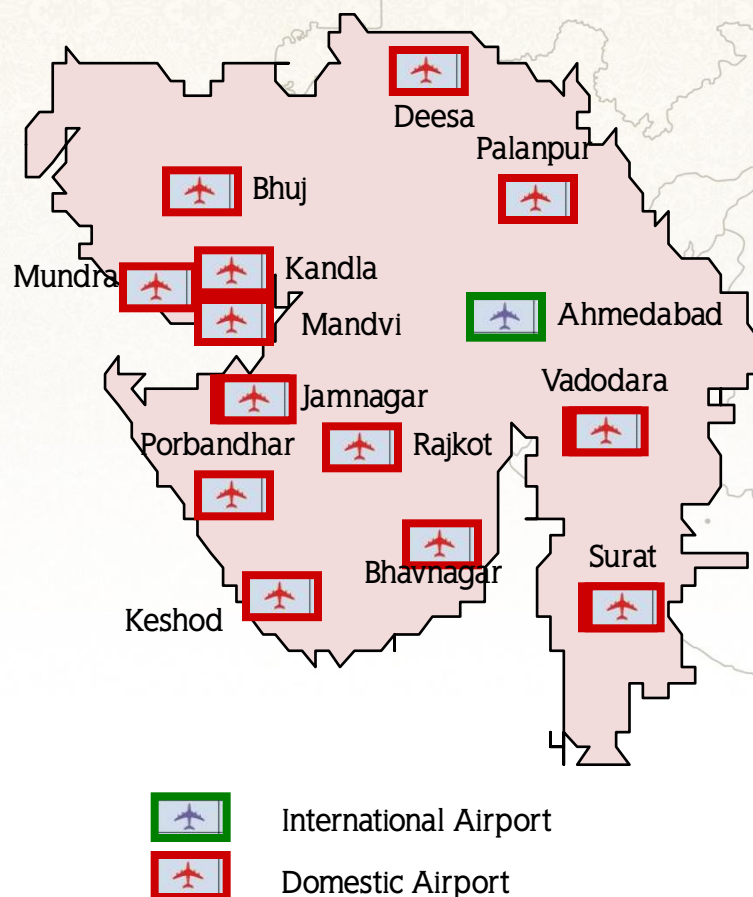
Physical Infrastructure – Railways



Source: Maps of India

- The rail traffic in Gujarat mainly falls under the following divisions of Western Railway, namely: Vadodara, Rajkot, Bhavnagar, Ratlam, Mumbai and Ahmedabad.
- The state had a railway network of 5,271 km as of March 2011.
- Ahmedabad, Anand, Bhavnagar, Bhuj, Godhra, Porbandar, Rajkot, Vadodara (Baroda) and Valsad are some of the important railway stations in the state .

Physical Infrastructure – Airports



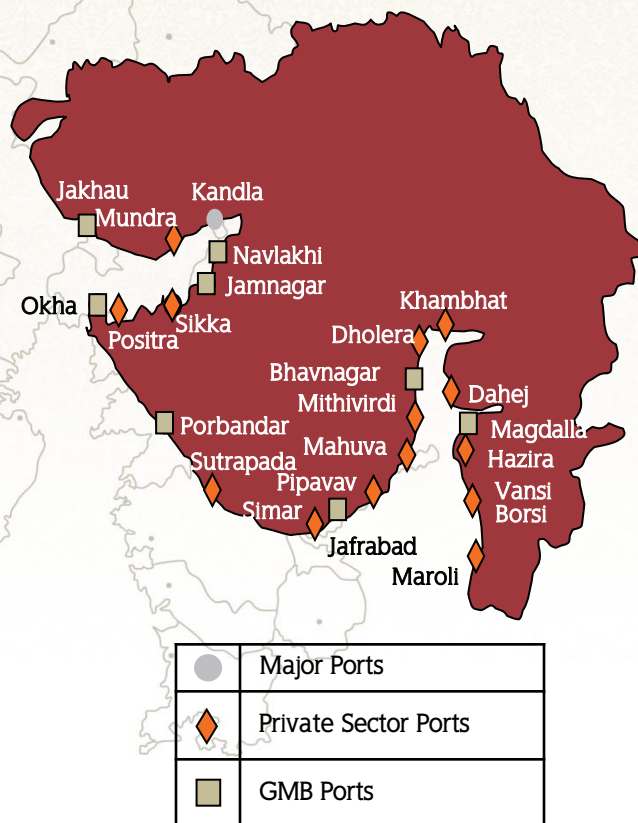
- The state has 13 domestic airports (the highest in any state) and one international airport at Ahmedabad.
- The Sardar Vallabhbhai Patel International Airport in Ahmedabad is India's seventh-busiest airport, with an average of 112 aircraft movements per day in 2011-12. In 2010, a new terminal building (terminal 2) was inaugurated which has been built at the project cost of US\$ 60 million.
- In addition, there are domestic airports at Bhavnagar, Bhuj, Jamnagar, Kandla, Keshod, Deesa, Porbandar, Rajkot, Surat, Vadodara, Mundra, Mandvi and Palanpur.
- A feasibility study for an international airport at Fedra in Dholera (about 130 km away from Ahmedabad) has been completed in January 2010. Once ready, the airport could be useful for both passenger and cargo purposes.

Physical Infrastructure – Ports ... (1/3)

- The state has one of the strongest port infrastructures in India. It is the first state in India to take up port privatisation.
- Gujarat has 42 ports along a 1,600 km coastline, including one major port at Kandla and 41 minor ports.
- The state has five direct berthing commercial ports, seven direct berthing captive port terminals and four lighterage-cargo ports.
- The state handled the largest (73.6 per cent) share of cargo traffic in India's non-major ports, and 14.7 per cent in India's major ports in 2011-12.
- The state has two LNG terminals that offer transportation facilities for natural gas, crude oil and petroleum products from the Middle East and Europe.

LNG: Liquefied Natural Gas

Port Infrastructure in Gujarat



Source: "Ports of Gujarat" – Sector Profile 2008-09, Gujarat Maritime Board (GMB)

Physical Infrastructure – Ports ... (2/3)

- The state has a vast hinterland comprising key Western, Northern and central Indian states.
- It also has a large external trade potential given its vast coastline.
- The intermediate and minor ports of Gujarat handled a total cargo of 259.0 million tonnes during 2011-12 showing an increase of about 12.1 per cent compared to the previous year.
- The total cargo handled by the Kandla Port was 82.5 million tonnes during 2011-12.

*Sources: Socio-Economic Review of Gujarat, 2011-12,
Ministry of Shipping, Government of India*



Physical Infrastructure – Ports ... (3/3)

- Many upcoming ports are being developed as captive ports to cater to specific company and industry requirements.
- The state undertakes fast-track clearance in establishment of ports through private participation.
- There is an increase in connectivity to non-major ports owing to the development of the Delhi-Mumbai Dedicated Freight Corridor.
- More than 4,800 ships and 1,000 sailing vessels visit the ports of Gujarat every year.

Source: "Ports of Gujarat", Sector Profile 2008-09, Gujarat Government

Key Private Sector Stakeholders in Gujarat's Ports Sector

Adani Ports and Special Economic Zone Ltd

Peninsular & Oriental Steam Navigation Company

Gujarat Pipavav Port Limited

Reliance Industries Limited

Maersk

Welspun

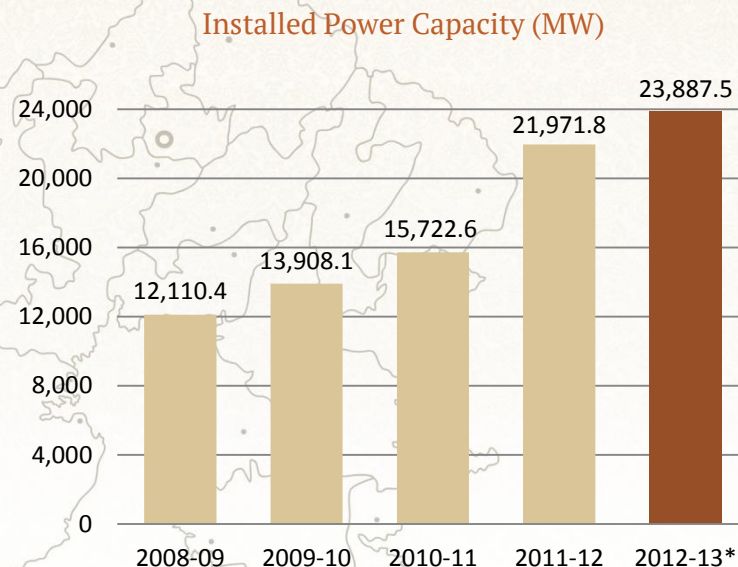
Petronet LNG

Shell

Physical Infrastructure – Power and Gas ... (1/2)

- As of January 2013, Gujarat had a total power generation installed capacity of 23,887.54 MW, which comprised 14,459.70 MW under private utilities, 6,035.90 MW under state utilities and 3,391.94 MW under central utilities.
- Of the total power generation installed capacity, 18,841.32 MW was contributed by thermal power, 772.00 MW was contributed by hydropower, 559.32 MW was contributed by nuclear power and renewable power contributed 3,714.90 MW of capacity.
- 100 per cent of Gujarat's villages have electricity connection for 24-hour power through the "Jyotigram Yojana".
- GSPC Gas Company Ltd (a distribution arm of Gujarat State Petroleum Corporation Ltd) supplies 4.3 MMSCMD of gas to more than 373,416 domestic households, 1,440 commercial & non-commercial customers and 1,685 industrial customers in the state.

Source: Socio-Economic Review of Gujarat, 2011-12
MMSCMD: Million Metric Standard Cubic Metre per Day



Source: Central Electricity Authority
*As of January 2013

Physical Infrastructure – Power and Gas ... (2/2)

- Gujarat State Petroleum Corporation Ltd (GSPC) has holdings in over 64 oil and gas fields, 53 of these blocks are located in India and 11 are located in Australia, Egypt, Indonesia and Yemen.
- GSPC is known for its discovery of the largest gas reserve in India at the Krishna-Godavari Basin.
- Gujarat has the most developed gas pipeline network in the country. The gas pipeline network is being operated by Gujarat State Petronet Limited (GSPL), Gujarat Gas Company Limited (GGCL) and GAIL (India) Limited (GAIL).
- GGCL has a total gas pipeline length of about 2,700 km and services 230,000 customers.

GSPL's Integrated Gas-Grid	
Current Transmission	35 mmscmd*
Commissioned Pipeline	1,874 km
Under Construction Pipeline	288 km

Source: Gujarat State Petronet Limited (GSPL) Annual Report 2010-11
MMSCMD: Million Metric Standard Cubic Metre per Day,
*includes 18 mmscmd of re-gasified LNG
LNG: Liquefied Natural Gas

Sources: Socio-Economic Review of Gujarat, 2011-12,
Gujarat Infrastructure Development Board

Physical Infrastructure – Telecom and IT ... (1/2)

- As of December 2011, the state had 834,250# broadband subscribers.
- According to Telecom Regulatory Authority of India (TRAI), Gujarat had 50.2 million^ wireless connections and 1.7 million^ wire-line subscribers with a teledensity of 85.19^ per cent, as of December 2012.
- All district headquarters are provided with back-up support of transportable V-SAT terminals.
- The state also has the State Disaster Resource Network (SDRN), a database of disaster management related inventory.
- The Bhaskaracharya Institute for Space Applications and Geo-informatics (BISAG) has satellite communication facilities with a dedicated bandwidth.

Telecom Infrastructure (December 2012)	
Wireless Connections^	50,280,123
Wire-line Connections^	1,786,975
Broadband Subscribers#	834,250*
Post Offices	8,934**
Telephone Exchanges	2,983*
Teledensity (in per cent)^	85.19

Sources: Telecom Regulatory Authority of India, Department of Telecommunications, Annual Report 2011-12, Ministry of Communications and Information Technology, India Post,
^Including Daman & Diu and Dadar & Nagar Haveli
#Including Dadar & Nagar Haveli
*As of December 2011
**As of January 2013

Physical Infrastructure – Telecom and IT ... (2/2)

- Gujarat State Wide Area Network (GSWAN), is one of the largest IP-based WAN connecting over 3,200 government offices.
- The state has the Sachivalaya Integrated Communication Network (SICN) with over 7,400 voice connections.
- There is facility for online redressing of citizen's grievances through the State Wide Attention on Grievances with Application of Technology (SWAGAT).
- Integrated Workflow and Document Management System (IWDMS) streamlines documentation in government offices.

Some of the Major Telecom Operators in Gujarat

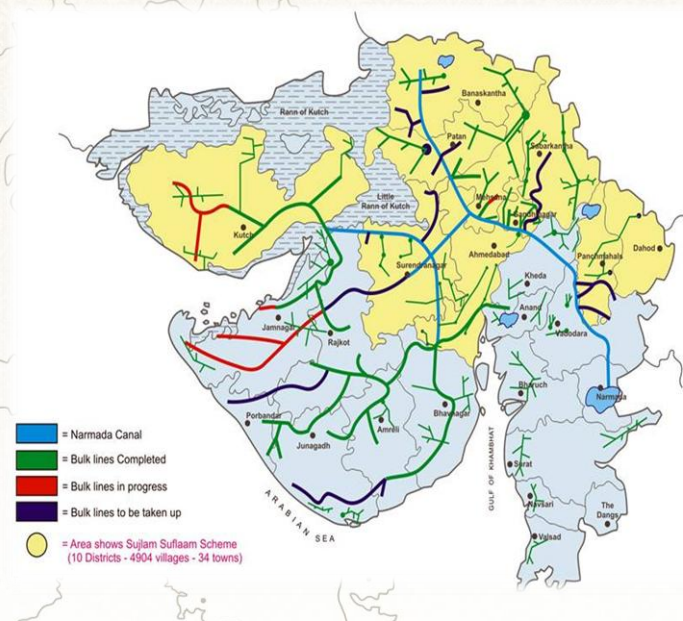
Vodafone Essar
IDEA Cellular
Bharti Airtel
Bharat Sanchar Nigam Limited (BSNL)
Reliance Communications
Aircel Limited
Tata Teleservices

Source: Telecom Regulatory Authority of India (TRAI)

Development Projects: Urban Infrastructure – Water

- As of February 2012, 2,240 km bulk pipelines and about 120,379 km of distribution pipelines have been laid across the state.
- The state has an extensive water grid network. State-wide water grid covers 75.0 per cent of the population with sustainable surface water resources for drinking water.
- Water conservation schemes include:
 - 153,249 check dams
 - 122,035 *bori bandhs* (dams made of sand bags)
 - Interlinking of 21 rivers in central and North Gujarat through 'Sujalam Sufalam Yojana'.
 - 21,418 deepened ponds.
- The Gujarat Water Users' Participatory Irrigation Management Bill, 2007, authorises farmers to constitute Water Users' Associations (WUA) for the management of canals handed over, after rehabilitation by the government.

State-wide Water Grid



Fresh-Water Availability in Gujarat

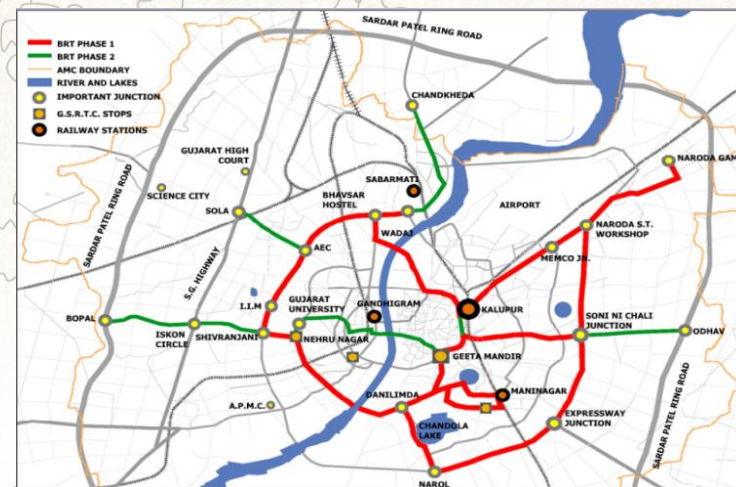
Surface Water	38,100 mcm
Ground Water	12,000 mcm
Total	50,100 mcm

Source: Vibrant Gujarat 2011, Sector Profile - Water Sector with Focus on Conservation
MCM: Million Cubic Metres

Development Projects: Clean Transport Initiative through CNG and BRTS

- The state envisages replacement of conventional fuels by Compressed Natural Gas (CNG) in all buses and auto rickshaws.
- The Bus Rapid Transport System (BRTS) is being implemented in Ahmedabad jointly by the State Government, Gujarat Infrastructure Development Board (GIDB), Ahmedabad Municipal Corporation (AMC) and Ahmedabad Urban Development Authority (AUDA).
- Total Bus Rapid Transport System (BRTS) length: 88.5 km (Phase-I: 58 km + Phase-II: 30.5 km). The project is in operation.

Ahmedabad BRTS Map



Development Projects: Other Initiatives in Urban Infrastructure

River-Front Development

Development around the rivers Sabarmati and Tapi have been undertaken to revitalise the city and improve existing infrastructure.

It also envisages development of commercial, residential and recreational facilities on the river-front.

The Sabarmati River Front Development Corporation honoured with the Prime Minister's Award for Excellence in Urban Planning and Design.

JNNURM

Under the Jawaharlal Nehru National Urban Renewal Mission (JNNURM), 72 projects costing US\$ 1.26 billion have been sanctioned for Gujarat.

The projects have been sanctioned between 2005-06 and 2011-12. The key areas of development are water supply, sewerage, solid-waste management, storm-water drainage, mass-rapid transport system, construction of flyovers and water treatment.

Gujarat Infrastructure Development Board (GIDB) has been constituted for conceiving infrastructure projects, developing and preparing them. GIDB also conducts pre-feasibility and feasibility studies for various projects.

Other Reforms

Municipal Accounting

Solid-Waste Management

Energy Efficiency

Development Projects: Key Public Private Partnership Projects

Project Name	Sector	PPP Type	Project Cost (US\$ million)	Stage
Hazira LNG Terminal	Ports	BOOT	806.5	In Operation
Dahej LNG Terminal	Ports	BOOT	497.2	In Operation
Mundra Port	Ports	BOOT	467.6	In Operation
Himmatnagar Bypass	Roads	BOT-Toll	152.2	In Operation
Gandhidham-Palanpur Railway Project	Railways	BOT	108.7	In Operation
Rajkot Bypass & Gondal Jetpur	Roads	BOT-Toll	96.4	Construction
Surendranagar-Pipapav Railway Project	Railways	BOT	88.0	In Operation
Ahmedabad - Mehsana Road	Roads	BOT-Toll	76.0	In Operation
Bharuch-Dahej Gauge Conversion	Railways	BOT	-	Construction
Vadodara-Halol Toll Road	Roads	BOT-Toll	38.0	In Operation
Transport Nagar at Ahmedabad	Roads	BOT	32.9	Construction
Viramgam Mehsana Gauge Conversion Project	Railways	BOT	22.38	In Operation

Source: www.pppindiadatabase.com

BOOT – Build-Own-Operate-Transfer; BOT – Build-Operate-Transfer

Development Projects: Special Economic Zones (SEZs) ... (1/3)

- As of January 2013, Gujarat had 47 formally approved SEZs, seven in-principle approvals and 32 notified SEZs.
- Gujarat ranks first in terms of total area covered under SEZs in India. It is also a leading SEZ state with the highest geographical area of 29,424 hectares under SEZ development.
- Gujarat has 17 operational SEZs. Some of them are as follows:
 - Kandla SEZ
 - Surat SEZ
 - Surat Apparel Park
- It is the first state to formulate a SEZ policy, which includes flexible labour laws and exit options for investors.
- SEZs in Gujarat get a 10-year corporate tax holiday on export profit: 100 per cent for the initial five years and 50.0 per cent for the next five years.

SEZs with In-Principle Approvals*

Industry	Locations	No. of SEZs
Free Trade and Warehousing Zones	Kandla, Kutch	2
Multi Product	Valsad, Kutch, Bharuch	3
Plastic & Plastic Products	Kutch	1
Power	Kutch	1

*As of January 2013
Source: sezindia.nic.in

Development Projects: Special Economic Zones (SEZs) ... (2/3)

Formally Approved SEZs*

Industry	Locations	No. of SEZs
IT/ITes and Electronics	Gandhinagar, Ahmedabad, Vadodara, Valsad	15
Muti Product/ Services	Jamnagar, Dahej, Mundra, Kandla, Gandhinagar, Bharuch, Kutch	9
Pharmaceuticals & Chemical	Ahmedabad, Bharuch, Kutch, Panoli	7
Engineering	Ahmedabad, Vadodara, Amerli	4
Textile & Apparel	Ahmedabad, Anjar	3
Oil and Gas	Bharuch	2
Gems & Jewellery	Surat	1
Ceramic & Glass	Bharuch	1
Biotech	Vadodara	1
Handicraft	Kutch	1
Non-Conventional Energy	Kutch	1
Food Processing	Mehsana	1
Free Trade and Warehousing Zone (FTWZ)	Kutch	1

*As of January 2013
Source: sezindia.nic.in

Development Projects: Special Economic Zones (SEZs) ... (3/3)

Notified SEZs*

Industry	Locations	No. of SEZs
IT/ITes and Electronics	Ahmedabad, Gandhinagar, Vadodara	10
Pharmaceuticals and Chemicals	Ahmedabad, Bharuch	6
Multi-Product	Jamnagar, Bharuch, Kutch	5
Multi-Services	Gandhinagar	1
Engineering	Vadodara, Amerli, Ahmedabad	3
Textile and Apparel	Ahmedabad, Kutch	2
Gems and Jewellery	Surat	1
Non-Conventional Energy	Kutch	1
Biotechnology	Vadodara	1
Oil and Gas	Bharuch	1
Free Trade and Warehousing Zones (FTWZ)	Kutch	1

*As of January 2013
Source: sezindia.nic.in

Social Infrastructure – Education ... (1/2)

- Gujarat has a literacy rate of 79.3 per cent according to the provisional data of Census 2011; the male literacy rate is 87.2 per cent and the female literacy rate is 70.7 per cent.
- In 2010-11, the state has around 40,723 primary schools with over 8.14 million students enrolled.
- 'Kanya Kelavani' is a state-wide girl child education campaign to increase enrolment ratio and decrease dropout rates.
- 'Vidhyadeep Yojna' has been implemented where in case of an unfortunate death of a child studying in the primary school, the parents or the guardians of the child are offered US\$ 1,097 as an insurance amount.

Gujarat's School Education Statistics (2010-11)

Number of Schools	Primary: 40,723 Secondary and Higher Secondary: 9,844 Higher: 1,567
Pupil-Teacher Ratio	Primary: 31:1 Secondary and Higher Secondary: 41:1 Higher: 28:1
Net Enrolment Ratio	Primary: 98.64
Number of Teachers	Primary: 260,237 Secondary and Higher Secondary: 74,929 Higher: 24,445

Source: Socio-Economic Review of Gujarat, 2011-12

Literacy Rates (%)

Literacy Rate	79.3
Male Literacy	87.2
Female Literacy	70.7

Source: Census 2011 (provisional data)

Social Infrastructure – Education ... (2/2)

- 'Sakshardeep' is a literacy campaign for adult education. The total of 526,259 persons had taken benefit under Sakshardeep programme 2007.
- Society for Creation of Opportunity through Proficiency in English (SCOPE) is an initiative of the government to make Gujarati youth proficient in business English.

No. of Seats* in Technical Education - 2011-12 (P)

Engineering	46,581
MBA	13,352
Pharmacy	6,427
MCA	5,716
Architecture	780

Source: Socio-Economic Review of Gujarat, 2011-12

*In Degree (full time) Course

MBA: Master of Business Administration

MCA: Master of Computer Application

(P): Provisional

Premier Educational and Research Institutions in Gujarat

- Indian Institute of Management, Ahmedabad
- Indian Institute of Technology, Gandhinagar
- Sardar Vallabhbhai National Institute of Technology, Surat
- Institute of Rural Management (IRMA), Anand
- Mudra Institute of Communications, Ahmedabad (MICA)
- National Institute of Fashion Technology (NIFT), Gandhinagar
- National Institute of Design, Ahmedabad
- Centre for Environment Planning and Technology, Ahmedabad
- Central Salt and Marine Chemicals Research Institute, Bhavnagar

Social Infrastructure – Health ... (1/2)

- Gujarat is in the forefront of establishing and maintaining good health infrastructure.
- The state has 1,114 Primary Health Centres (PHCs), 7,274 Sub-centres, 305 Community Health Centres (CHCs), 24 District Level Hospitals, 26 Sub-district Level Hospitals and six Class- II Hospitals.
- During 2010-11, 33.23 million patients were treated outdoors while 3.62 million patients were treated indoors through the government medical institutions.

Health Indicators (2011)	
Birth Rate*	21.3
Death Rate*	6.7
Infant Mortality Rate**	41

Source: Sample Registration System (SRS)
Bulletin 2012 (www.censusindia.gov.in)

*Per thousand persons

**Per thousand live births

Health Infrastructure (December 2011)	
Primary Health Centres	1,114
Sub-Centres	7,274
Community Health Centres	305
District Level Hospitals	24
Sub-District Level Hospitals	26
Major Hospital with Educational Institutes	6
Class- II Hospitals	6
Government Dental Hospital	2

Source: Socio-Economic Review of Gujarat, 2011-12

Social Infrastructure – Health ... (2/2)

Key Health Schemes of Gujarat Government

Chiranjeevi Scheme

- Introduced to reduce maternity-related deaths and infant mortality; involves collaborations between government and private sector specialists to facilitate safe deliveries for the economically weaker sections.

Bal Sakha Yojna

- An initiative under the Chiranjeevi Scheme.
- Provided facilities for proper check up of newborns and infants by paediatricians. The main aim of the scheme is to bring down the Infant Mortality Rate (IMR) and the Maternal Mortality Rate (MMR).

Centre-Aided Health Insurance Scheme

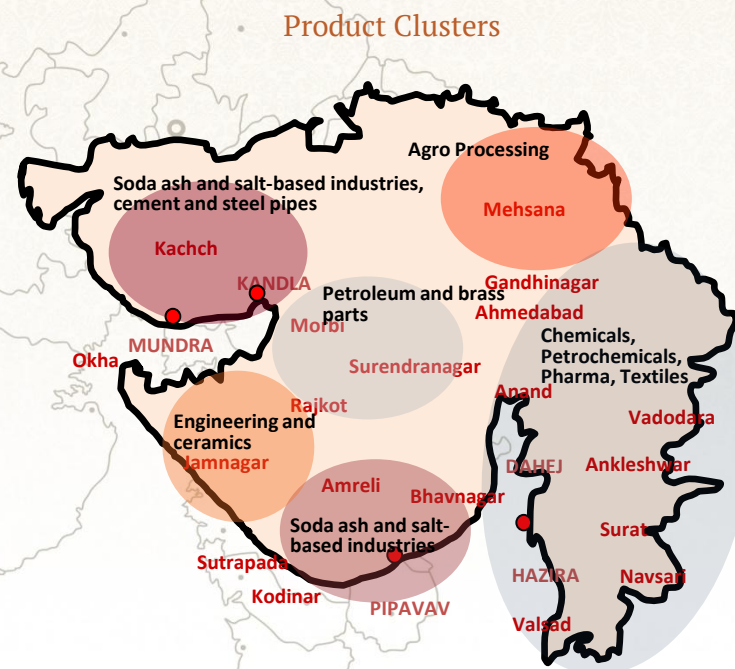
- The scheme has been launched in Gujarat to cover the families with income-levels in the Below Poverty Line (BPL) category.
- Total insured amount is about US\$ 650 per family.

Cultural Infrastructure

- Various dance forms of the state include Dandiya Raas, Garba, Garbi, Rasaka, Tippani and Padhar.
- Many fairs and festivals are celebrated in the state such as Bhavnath Mahadev Mela, Dangs Darbar, Vichitra Mela, Dhrang Fair, Trinetreshwar Mahadev Fair, Vautha Mela, Shamlaji Mela, Kutch Mahotsav, Bhadra Purnima, Kavant Mela, Modhera (dance festival), Makar Sankranthi, International Kite Festival (Uttarayan) and Navrathri Festival.
- Museums in the state include The Gandhi Smarak Sangrahalaya (Ahmedabad), Calico Musuem of Textiles (Ahmedabad), Vadodara Museum (Vadodara), Maharaja Fatehsingh Museum (Vadodara), Gandhi Museum (Bhavnagar), Kite Museum (Ahmedabad), Watson Museum (Rajkot) and the Lady Wilson Museum (Valsad).
- Prominent stadiums in the state include the Sardar Patel Cricket Stadium (Ahmedabad), Moti Bagh Stadium (Vadodara), Indian Petrochemicals Corporation Ltd (IPCL) Sports Complex (Vadodara) and the Surat Indoor Stadium. Golf courses in the state include Gaekwad Baroda Golf Club (Vadodara), Gulmohar Greens Golf & Country Club (Ahmedabad), Aalloa Hills Golf Resort (Ahmedabad), Kensville Golf and Country Club (Ahemdabad), Cambay Golf Club (Gandhinagar), and an integrated Golf Course in Ganesh Housing Corporation (Ahmedabad).
- A world-class sporting infrastructure complex is coming up in Ahmedabad at a cost of US\$ 65 million. The project is expected to be ready by 2013. The facility which will incorporate a 21,000 seat stadium, is a collaboration between the Government of Gujarat and SE TransStadia Private Limited.

Industrial Infrastructure

- The state's manufacturing industry is supported by 0.34 million MSMEs.
- Gujarat has 83 product clusters. The Cluster Development Scheme has been launched for furthering the growth of product clusters.
- Some of the successful clusters include ceramics cluster at Morbi, brass-parts cluster at Jamnagar, fish-processing cluster at Veraval and power-looms cluster at Ahmedabad.
- Gujarat has 184 industrial estates established by the Gujarat Industrial Development Corporation (GIDC) for specific sectors such as chemicals, electronics, gems, apparels and granite.
- The State Government has taken care to set up industrial estates on non-agricultural land after assessment of industrial viability.



Source: Industries Commissionerate, Government of Gujarat

MSME: Micro, Small & Medium Enterprise

Gujarat

MARCH
2013

THE GROWTH ENGINE OF INDIA

Contents

- ❖ Gujarat – An Introduction
- ❖ Infrastructure Status
- ❖ Business Opportunities
- ❖ Doing Business in Gujarat
- ❖ State Acts & Policies



For updated information, please visit www.ibef.org

Key Industries ... (1/2)

- Gujarat contributes around 16.0 per cent to the industrial output of the country.
- There are 13 major industry groups that together account for around 83.0 per cent of total factories, 94.0 per cent of total fixed capital investment, 93.0 per cent of the value of output and 93.0 per cent of value-addition in Gujarat's industrial economy.
- Gujarat is a leader in several industrial sectors such as chemicals, petrochemicals, dairy, drugs and pharmaceuticals, cement and ceramics, gems and jewellery, textiles and engineering.
- The industrial sector comprises of over 800 large industries and over 345,000 micro, small and medium industries.

Key Industries in Gujarat

- Agro and Food Processing
- Dairy
- Chemicals and Petrochemicals
- Textiles and Apparels
- Engineering and Auto
- Gems and Jewellery
- Oil and Gas
- Pharmaceuticals and Biotechnology
- IT
- Minerals
- Ports
- Power
- Tourism

Source: Government of Gujarat website

Key Industries ... (2/2)

→ Home to India's first Liquefied Natural Gas (LNG) port terminal at Hazira.

→ Petroleum accounts for the highest industrial production in Gujarat with a 26.0 per cent share. It is followed by chemicals with a 21.0 per cent and pharmaceuticals with a 7.0 per cent share.

→ Gujarat is:

→ The world's largest producer of processed diamonds and wall clocks.

→ The world's largest gas-based, single-location sponge iron plant.

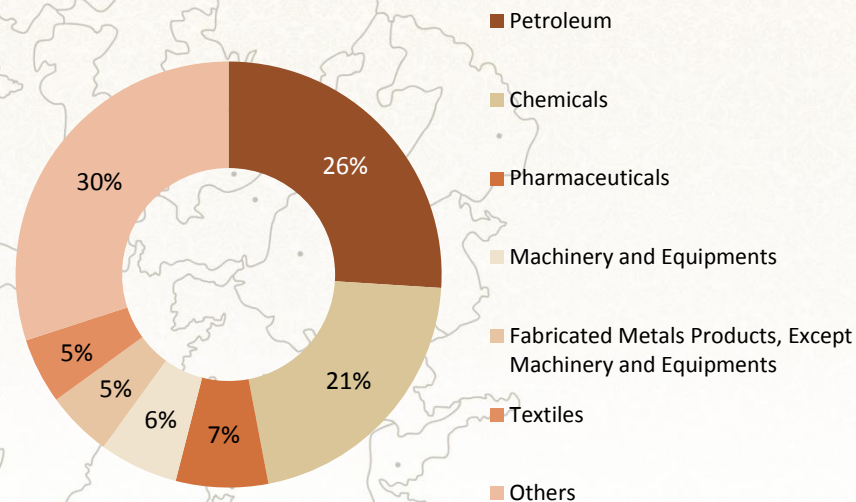
→ The world's largest producer of castor and cumin.

→ The world's third largest producer of denim.

→ Asia's largest grassroots petroleum refinery at Jamnagar.

→ India's largest producer of cotton.

Manufacturing Sector break up in Gujarat



Source: Vibrant Gujarat 2013 – Manufacturing Sector Profile, www.vibrantgujarat.com

Key Industries – Agro and Food Processing ... (1/3)

- The agro sector including animal husbandry, contributed 17.1 per cent to Gujarat's GSDP in 2010-11.
- Cotton, Groundnut, Bajra, Paddy, Maize, Jowar, Sesamum, Castor, and Tur (Pigeon pea) along with fodder and vegetables are the major kharif crops of the state. Normal area under kharif cultivation is 8.6 million hectares.
- There are 205 Agriculture Produce Market Committees (APMCs).
- As of March 2011, there were 199 main yards and 201 sub market yards operational in the state.
- Gujarat Agro Industries Corporation (GAIC) promotes agricultural activities at the ground-level and aids the development of agro industries in the state.

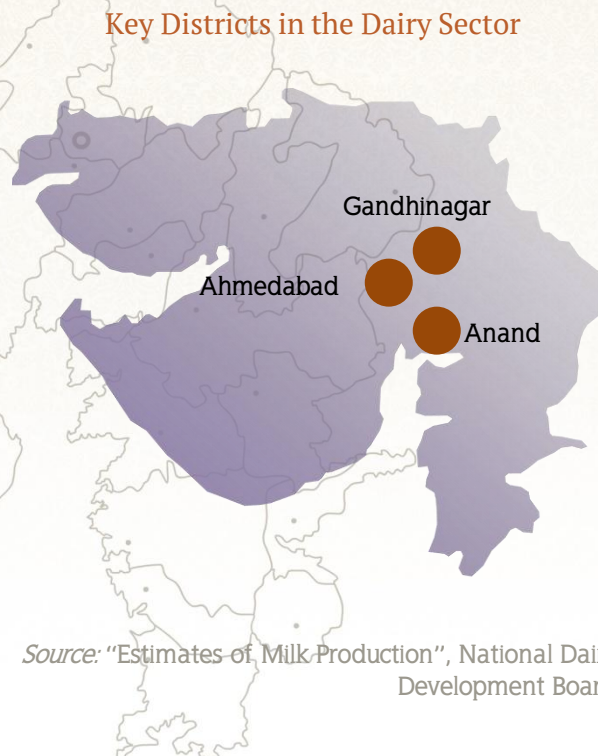
Some of the Key Players

- Amul
- Parle Products Pvt Ltd
- Vadilal
- Rasna

Key Industries – Agro and Food Processing – the Dairy Industry ... (2/3)

- Gujarat's dairy sector consists of 17 district milk producers' unions.
- There are around 14,598 milk co-operative societies in the state.
- The total milk production in Gujarat was 9.3 million tonnes in 2010-11.
- The National Dairy Development Board in Anand is involved in promoting, financing and supporting milk-distribution organisations across India.
- GCMMF, a cooperative dairy giant, sells Amul and Sagar brands of dairy products through one million retailers and 5,000 distributors.
- GCMMF became the first billion - dollar cooperative in 2006-07 and registered a turnover of US\$ 1.1 billion. GCMMF recorded a turnover of US\$ 2.5 billion in 2011-12.

GCMMF: Gujarat Co-operative Milk Marketing Federation



Key Industries – Agro and Food Processing ... (3/3)

Amul



- The Anand Milk Union Limited (AMUL) was established in 1946 in Anand, Gujarat. Amul had revenues of US\$ 2.5 billion during 2011-12.
- A market leader in butter, whole-milk, cheese, ice cream, dairy whitener, condensed milk, saturated fats and long-life milk.
- Daily average collection of 10.6 million litres of milk from 16,117 village societies in 2011-12.

Parle Products Pvt Ltd



- India's largest manufacturer of biscuits and confectionery for almost 80 years.
- Brands include Parle-G, Krackjack, Monaco, Hide and Seek, Poppins, Melody and Mango Bite.
- The company has a factory at Bhuj in Gujarat.

Vadilal



- Established in 1907 at Ahmedabad. Manufactures ice-creams and frozen desserts.
- Exports processed products.
- Revenue of US\$ 58.3 million in 2011-12. One manufacturing plant at Pundhra in district Gandhinagar.

Rasna



- Started in 1984, it has around 93.0 per cent market share in powdered Indian soft drink concentrate market.
- Wide range of products in processed-foods category such as fruit jams, energy sports drink powder, fruit cordial, rose syrup and iced-tea.
- Largest capacity in Asia to make powder concentrate with seven facilities spread across India. The company is based in Ahmedabad.

Key Industries – Textiles and Apparel ... (1/2)

- Gujarat is the largest producer (33.0 per cent) and exporter (60 per cent) of cotton in the country.
- As per Government of Gujarat's survey report, technical textiles is a key emerging area with over 860 units in Gujarat.
- Textile contributes 6.0 per cent of the total industrial production in the state (organised sector).
- Over 40.0 per cent of the country's art-silk fabric is produced in Surat. Gujarat is the largest producer of denim in India (65.0 to 70.0 per cent) and the third-largest in the world.
- About 24.0 per cent to 28.0 per cent of fixed investment, production value and employment of Small Scale Industries (SSI) is from textiles sector.
- Gujarat technical textiles market was estimated at around US\$ 1.27 billion in 2011-12; contributing around 10.0 per cent to the national technical textile output.

Area	Textile Clusters
Ahmedabad	Cotton and Blended Fabric, Denim, Made-ups, Ladies Dresses, Textile Machinery and Spare Parts.
Surat	Art-silk Fabric, Synthetic Textiles, Jari Manufacturing, Embroidery, Textile Machinery and Spare Parts.
Umargam	Modern Power Looms, Synthetic Suiting and Shirting.
Jetpur	Hand Printing and Processing Units.
Manavadar	Cotton Ginning
Kutch	Textile Handicrafts

Some of the Key Players
<ul style="list-style-type: none"> • Arvind Ltd • Ashima Group • Digjam Ltd • Raymond Ltd

Key Industries – Textiles and Apparel ... (2/2)

Arvind Ltd



- One of the largest producers of denim in the world and largest producer in Asia.
- Product line includes fabrics (denims, shirtings, khakis and knitwear) and garments.
- Asia's first fabric-manufacturing unit to receive an ISO-14001 certification.
- Has the denim and voiles divisions at Ahmedabad; shirting, khakhi and knits divisions at Gandhinagar.

Ashima Group



- 100 per cent cotton-fabric manufacturers and a vertically-integrated group with a turnover of over US\$ 100 million per annum.
- Registered office at Ahmedabad.
- Exports fabric to over 45 countries, markets to over 150 Indian garment exporters.

Digjam Ltd



- Part of the S.K. Birla Group, the company was established in Jamnagar, Gujarat in 1948.
- The company manufactures fabrics for suiting and casual wear.
- It has restructured its business portfolios to focus on textile manufacturing and marketing of fabrics and ready-to-wear clothing under its own brands.

Raymond Ltd



- With over 60.0 per cent market share in India, Raymond is one of the largest integrated manufacturers of worsted fabric in the world. The group is into textiles, engineering and aviation.
- Raymond Apparel Limited is a 100 per cent subsidiary of Raymond Limited.
- The plant at Vapi in Gujarat has production capacity of 14 million metres per annum.

Key Industries – Chemicals and Petrochemicals ... (1/2)

- Gujarat contributed about 51.0 per cent to the national production of chemicals in 2010-11.
- It is the highest contributor to the total national production of petrochemical products.
- Gujarat's contribution in the national production of the following is:
 - Soda ash: About 98.0 per cent
 - Salt: 75.0 per cent
 - Petrochemical: 62.0 per cent
 - Onshore Crude oil: 53.0 per cent
- The State Government is developing the Petroleum, Chemicals and Petrochemicals Integrated Region (PCPIR) at Dahej.

Some of the Key Players

- Asian Paints Ltd
- Tata Chemicals Ltd
- Gujarat State Fertilisers and Chemicals Ltd
- Excel Industries Ltd

Key Industries – Chemicals and Petrochemicals ... (2/2)

Asian Paints Ltd



- It is India's largest paint company and ranks among the top ten decorative coatings companies in the world.
- Asian Paints along with its subsidiaries has operations in 17 countries across the world and 24 paint manufacturing facilities.
- Manufacturing facility at Ankleshwar in Gujarat.

Tata Chemicals Ltd (TCL)



- TCL is a global company with interests in chemicals, crop nutrition and consumer products. It is the world's second largest producer of soda-ash.
- Established in 1939 at Mithapur in Gujarat, TCL is a part of the Tata group. The plant has an installed capacity of 875,000 tonnes per annum; about 34.0 per cent of the country's capacity. The plant is one of the largest producers of synthetic soda ash in the world and has a five-star rating from the British Safety Council.

Gujarat State Fertilisers and Chemicals Ltd



- Established in 1962. Fertiliser plant at Fertiliser Nagar (Vadodara), fibre unit at Kosamba, Di-Ammonia Phosphate (DAP) fertiliser unit at Sikka and polymer unit at Nandesari.
- Had revenue of US\$ 1.1 billion in 2011-12.

Excel Industries Ltd



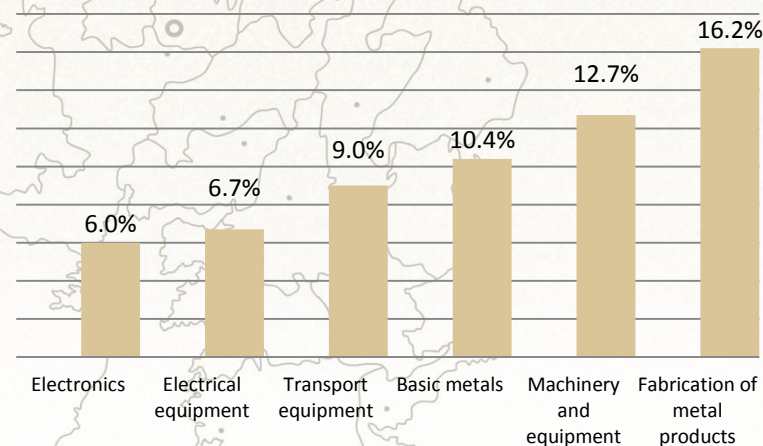
- Established in 1941, the company manufactures agro-chemicals, water treatment chemicals, polymer additives and few other specialty chemicals.
- Plants in Gujarat at Piplaj and Ahmedabad.
- Turnover of US\$ 62.8 million in 2011-12.

Key Industries – Engineering and Automotive ... (1/4)

- The state's engineering sectors contribute around 18.0 per cent to state's total industrial production and around 9.0 per cent to the national engineering output.
- The sector comprises more than 300 units in large sector and over 75,000 units in Small and Medium Enterprises (SME) sector (excluding repair and services) operating in the state.
- The state has over 30 engineering product clusters.
- The State Government has set up an international level Automotive Skill Development Institute on PPP mode with PSA Peugeot, to generate skilled manpower for the automotive sector.

PPP: Public Private Partnership

Share of Gujarat in National Engineering Goods Production



Source: Vibrant Gujarat 2013 - Manufacturing Sector Profile, www.vibrantgujarat.com

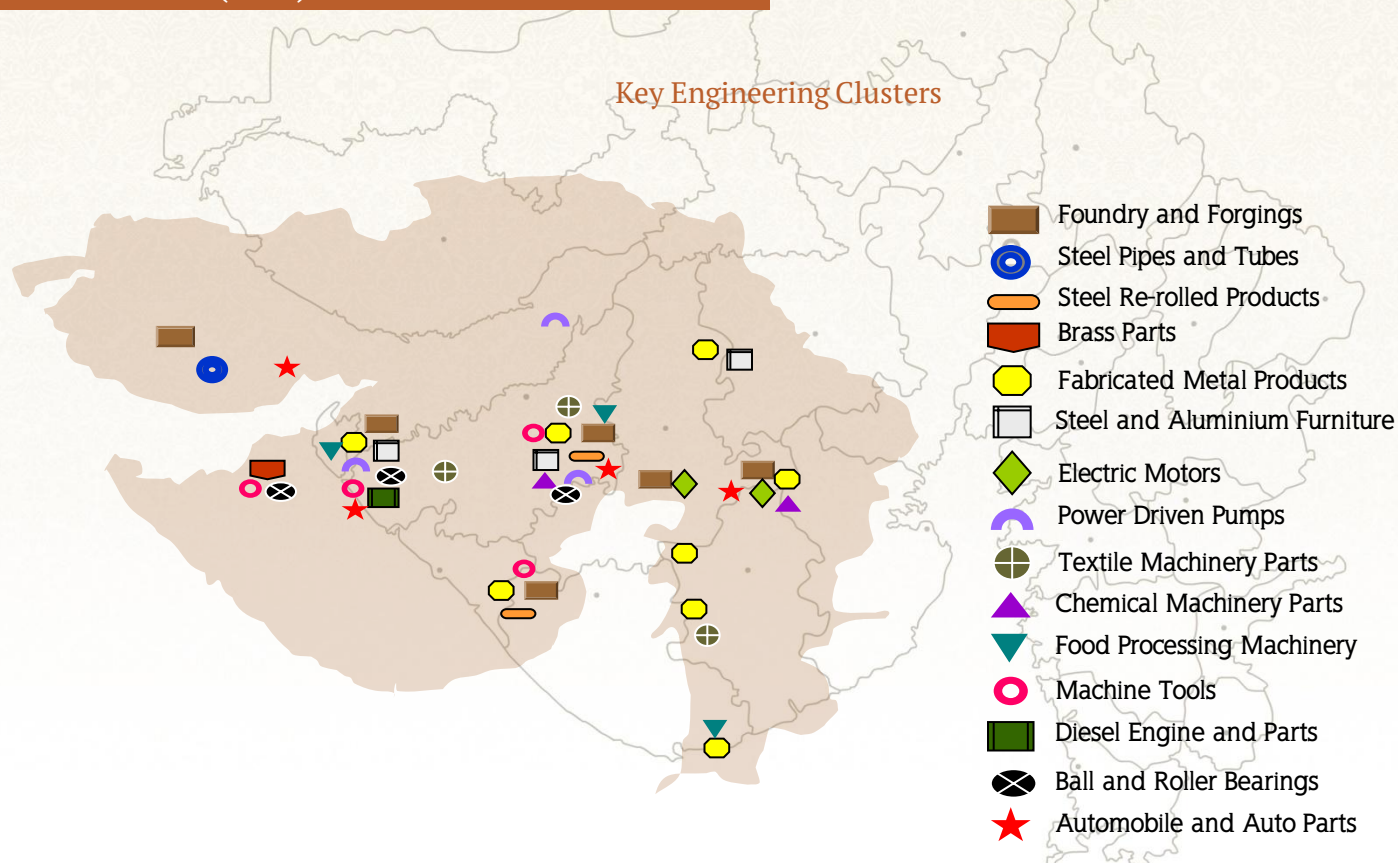
Key Industries – Engineering and Automotive ... (2/4)

- Small-scale industry is a significant contributor to the national production of brass parts, foundry, forging and machine tools, oil engines and electric motors, submersible pumps and industrial valves and bearings.
- The brass parts cluster at Jamnagar has over 5,000 small units and meets almost 70.0 per cent of the entire requirement for brass parts in India.
- General Motors has set up its automotive manufacturing facilities in Gujarat, providing a boost to its auto ancillary industry.

Some of the Key Players

- ABB
- Larsen & Toubro (L&T)
- General Motors
- Panasonic

Key Industries – Engineering and Automotive ... (3/4)



Key Industries – Engineering and Automotive ... (4/4)

ABB



- Incorporated in 1949. The company manufactures cables and cable accessories, control systems, power products, semiconductors, reactors, drives, generator circuit breakers and insulation components.
- Manufacturing facility, training and operations centre located in Gujarat at Vadodara. The ABB Group had revenue of US\$ 37.9 billion in the year 2011.

**Larsen & Toubro
(L&T)**



- L&T is a technology, IT, engineering, construction and manufacturing company.
- The Engineering Construction and Contracts (ECC) division of L&T is India's largest construction organisation in the country. Has a regional office at Ahmedabad.
- The company has two manufacturing facilities at Hazira and Vadodara in Gujarat. L&T's Hazira works is recognised as one of the most advanced heavy fabrication facilities matching global standards.

General Motors



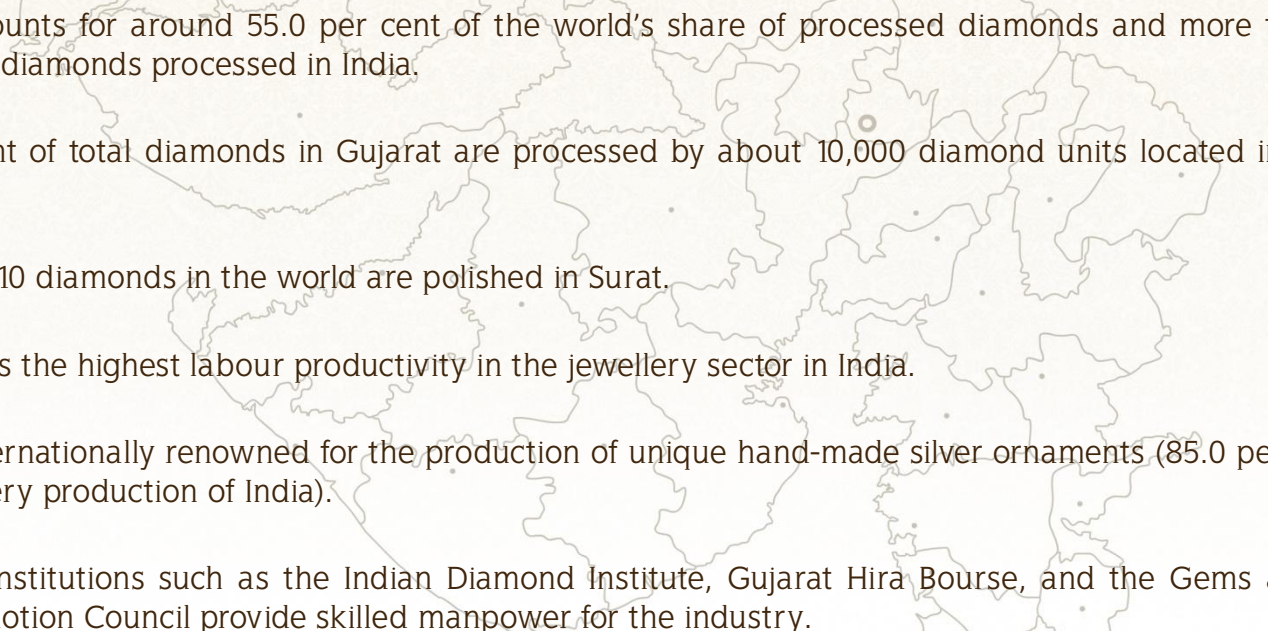
- Founded in 1908, GM is among the world's largest automobile makers. Headquartered in Detroit (USA), GM manufactures cars and trucks in 158 facilities and offer a comprehensive range of vehicles in more than 120 countries. GM has been the global automotive sales leader since 1931 and employs about 202,000 people globally.
- General Motors India, incorporated in 1996, became a fully-owned subsidiary of GM in 1999. It has a manufacturing plant at Halol (Panchmahal) in Gujarat and produces cars such as Spark, Beat, Sail U-VA, Captiva, Cruze and Tavera under the brand of Chevrolet.

Panasonic



- Panasonic (formerly known as Matsushita) is the largest Japanese electronics producer. Products include audiovisual and information/ communication equipment and home appliances etc.
- Established a business unit in Gujarat in 1972 through a joint venture with the Indian company, Lakhanpal. Manufacturing unit located at Vadodara where it manufactures dry cell batteries.

Key Industries – Gems and Jewellery

- 
- Gujarat accounts for around 55.0 per cent of the world's share of processed diamonds and more than 80.0 per cent of total diamonds processed in India.
 - 90.0 per cent of total diamonds in Gujarat are processed by about 10,000 diamond units located in and around Surat.
 - Eight out of 10 diamonds in the world are polished in Surat.
 - The state has the highest labour productivity in the jewellery sector in India.
 - It is also internationally renowned for the production of unique hand-made silver ornaments (85.0 per cent of total silver jewellery production of India).
 - Renowned institutions such as the Indian Diamond Institute, Gujarat Hira Bourse, and the Gems and Jewellery Export Promotion Council provide skilled manpower for the industry.

Key Industries – Oil and Gas ... (1/2)

- Gujarat ranks first in the production of crude oil (onshore) in India. In 2010-11, the state accounted for 35.9 per cent of the total crude oil (onshore) production in the country.
- In 2010-11, the state accounted for 26.3 per cent of the total natural gas (onshore) production in the country. The state has the highest number of oil and gas fields, both onshore and offshore, in India (27.6 per cent).
- Gujarat accounts for nearly 45.0 per cent of India's installed refining capacity.
- Oil and gas reserves are located at Ankleshwar, Mehsana, Tapti High, Hazira, Bharuch, Gandhar, Dahej, Jambusar, Palej and Kalol. Isolated gas fields are located around Ahmedabad.
- Gujarat has over 2,200 km state-wide integrated gas grid. It also has two LNG terminals at Hazira and Dahej. Two more terminals are proposed to be set up at Pipavav and Mundra.

Key Players

- Cairn India
- IOCL (Indian Oil Corporation Limited)
- ONGC (Oil and Natural Gas Corporation Limited)
- Shell

Key Locations

Oil and Gas Companies

Key Locations	Oil and Gas Companies
Jamnagar	Reliance Industries Refinery: Largest grassroots refinery in the World; Essar Refinery
Dahej	Petronet LNG's Re-gasification Terminal
Hazira	Shell and Total's LNG Terminal
Vadodara	Indian Oil Corporation's Refinery
Gandhar	ONGC's Gas Processing Complex

Key Industries – Oil and Gas ... (2/2)

Indian Oil Corp Ltd (IOCL)



- IOCL is India's largest integrated oil refining and marketing company by sales, with a turnover of US\$ 84.9 billion in 2011-12. It is the 18th largest petroleum company in the world.
- It owns and operates 10 of India's 22 refineries; the company had a refining capacity of 65.7 Million Metric Tonnes Per Annum (MMTPA) (1.3 million barrels per day). The refinery at Koyali is IOCL's largest with a capacity of 18 MMTPA.

Cairn India



- The company operates the largest producing oil fields in the Indian private sector. Cairn India holds material exploration and production positions in 11 blocks in West and East along with new exploration rights elsewhere in India and one in Sri Lanka. Cairn has a 40.0 per cent share in the Cambay oil field; ONGC holds 50.0 per cent and Tata Petrodyne 10.0 per cent.
- It is building a 670 km long, heated and insulated crude oil pipeline from the Mangala Processing Terminal in Rajasthan to the Gujarat coast. When complete, the pipeline will give access to more than 75.0 per cent of India's refining capacity. The first phase was completed in May 2010. Second phase is under development and is expected to be completed by 2013.

ONGC



- ONGC is India's leading exploration and production company for oil and gas. It has 240 onshore production installations, 77 drilling rigs and 26,598 km pipeline network.
- ONGC has a plant at Hazira; assets in Mehsana, Ahmedabad and Ankleshwar.
- The company has the Institute of Reservoir Studies (IRS) at Ahmedabad and regional office at Baroda.

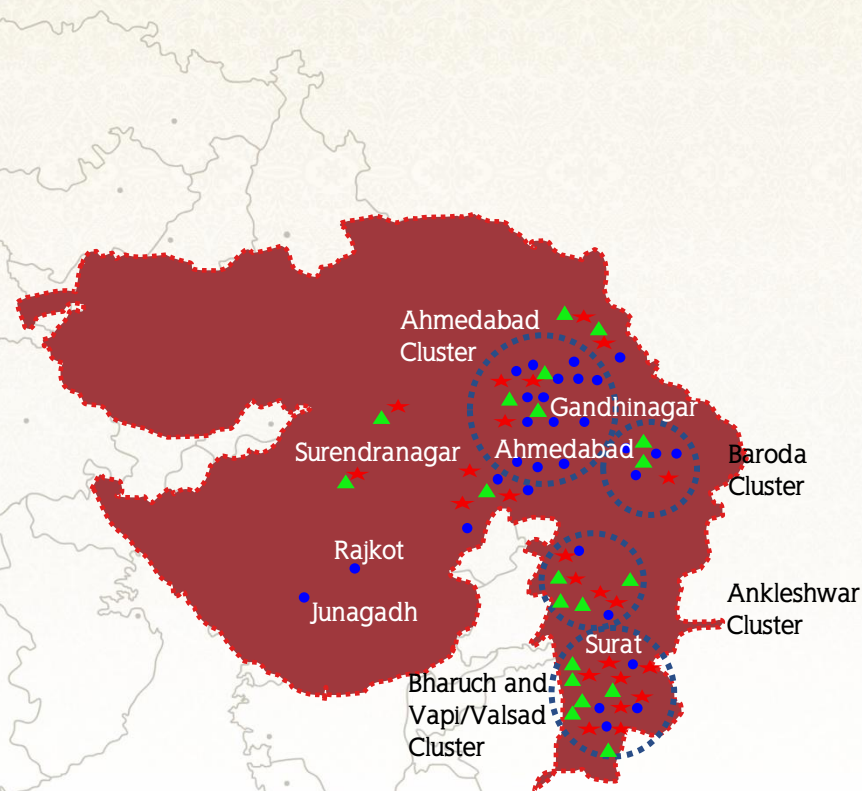
Shell



- Shell is among the global leaders in oil, gas and petrochemicals sector, with interests in bio-fuels, wind, solar power and hydrogen. The company operates in over 90 countries, employing around 93,000 people worldwide.
- It is one of the largest and most diversified international investor in India's energy sector. The company is the only global major to operate petro-fuel retail outlets in India. The Hazira LNG Terminal and port project is Shell's largest venture in India.

Key Industries – Pharmaceuticals and Biotechnology ... (1/3)

- Gujarat contributed 30.0 per cent to India's pharma sector turnover and around 28.0 per cent of India's pharma exports in 2010-11.
- The state accounts for 80.0 per cent of intravenous sets manufactured in the country.
- It has the largest number of clinical research organisations in India and over 100 companies with WHO-compliant manufacturing units.
- The state accounts for 40.0 per cent of pharma machinery production.
- A Pharma Special Economic Zone (PhaEZ) is being established by Cadilla Pharma near Ahmedabad with about 31 units and spread across in 500 acres.
- The landscape of Gujarat biotechnology industry consist of more than 50 biotechnology companies and 66 support organisations.



•	Manufacturing
▲	Academic Institution
★	R&D Organisation

Key Industries – Pharmaceuticals and Biotechnology ... (2/3)

Location	Biotech Zones (Proposed)
Ahmedabad-Surendranagar	Biopharma Zone
Jamnagar-Dwarka-Porbandhar	Marine Biotech Zone
Vadodara-Anand-Nadiad	Food and Food Processing for Animal Biotechnology
Vapi-Surat-Bharuch-Ankleshwar	Biochemical Engineering for Industrial Biotechnology
Junagadh-Bhavnagar-Banaskantha-Mehsana	Agri Biotechnology

Location	Biotech Parks (Proposed)
Vadodara	Industrial Park
Anand	Food Biotechnology Park
Jamnagar/Bhavnagar	Marine Biotechnology Park
Gandhinagar/Mehsana	Agri Biotechnology Park

Some of the Key Players
<ul style="list-style-type: none"> • Sun Pharma • Bayer Cropscience • Quintiles • Zydus Cadilla

Key Industries – Pharmaceuticals and Biotechnology ... (3/3)

Sun Pharma



- Sun Pharma was established in 1983. It manufactures Active Pharmaceutical Ingredients (APIs) and specialty pharmaceuticals. The company has 23 manufacturing plants across the world and reported revenues of US\$ 1.6 billion during 2011-12.
- Sun Pharmaceutical Advanced Research Centre (SPARC) is situated in Vadodara (Baroda). Manufacturing plants in Gujarat are located at Vapi, Halol, Ankleshwar, Ahmednagar and Vadodara.

Bayer Cropsience



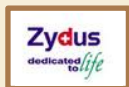
- Bayer is a global enterprise with core competencies in the fields of healthcare, agriculture and high-tech materials. In India, Bayer operates six companies including Bayer Cropsience, which offers a range of products and it has service back-up for modern agriculture and non-agricultural applications. The company has three business groups: crop protection, environmental science and bio-science.
- It has two factories in Gujarat, at Ankleshwar and Himatnagar.

Quintiles



- Quintiles is a fully integrated biotech and pharmaceutical services provider offering clinical, commercial, consulting and capital solutions. Key services in India include biostatistics, data management, clinical monitoring, central laboratory services, electrocardiogram monitoring services, project management and regulatory services.
- Quintiles India, the Indian subsidiary, has five offices in India. The research laboratory of the company is located at Ahmedabad.

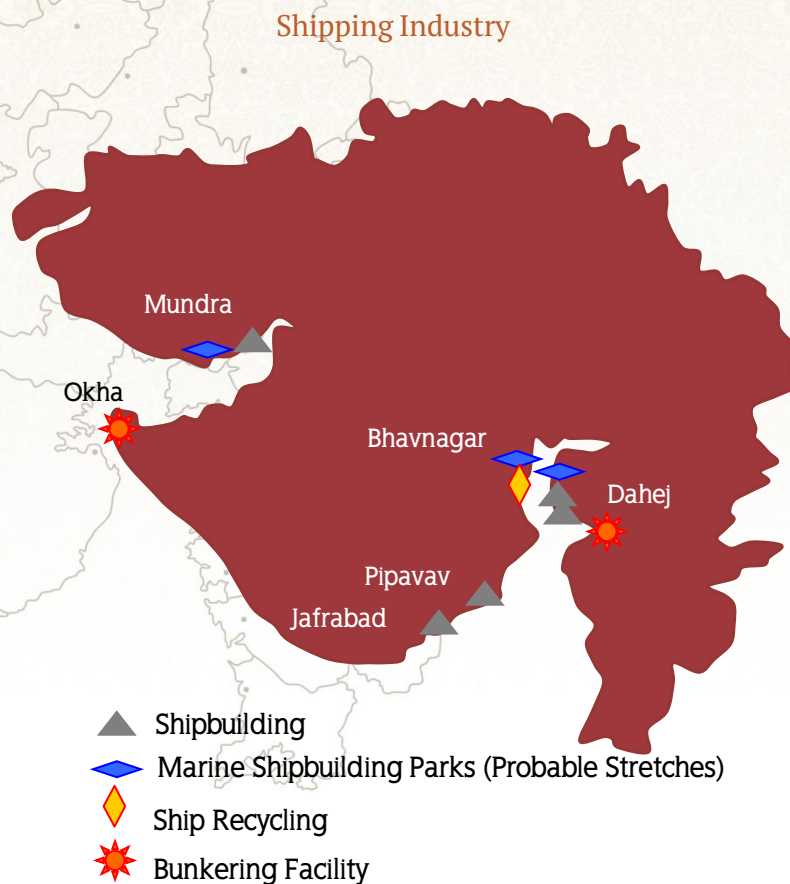
Zydus Cadila



- Zydus Cadila is one of the leading pharmaceuticals company with sales of US\$ 1.0 billion in 2011-12. Product line includes formulations, APIs, diagnostics, health-foods and diet-foods, skin care and animal healthcare products. The company maintained its strong position in the participated market segments of cardiovasculars, gastrointestinal, women's healthcare and respiratory.
- Production units are located in Ahmedabad, Vadodara and Ankleshwar for manufacturing tablets, injectibles, capsules, liquids and APIs.

Key Industries – Shipbuilding Industry

- There are several shipyards present in Gujarat such as ABG Shipyard, Alcock Ashdown and the L&T Shipyard.
- The infrastructure available for development of the shipbuilding industry includes:
 - Availability of raw materials such as ship building plates and engines
 - Stillness of water and deep draft
 - Proximity to ancillary industries
 - Sufficient anchorage space
- Gujarat has nine shipbuilding yards in operation, three under the process of approval and Gujarat Maritime Board (GMB) has envisaged for thirteen more notable shipbuilding projects.
- GMB is promoting the strategy of cluster form of Shipyards development known as Marine Shipbuilding Parks (MSP).



Source: Gujarat Maritime Board

Key Industries – Tourism

- 
- The state has a rich architectural and cultural heritage owing to its historical parentage of the Indus Valley Civilisation sites such as Lothal and Harappa. There are many forests and natural ecosystems, heritage monuments, beaches and coastal sites, gardens, lakes, archaeological and architectural sites in Gujarat.
 - Eight tourism hubs have been created for the convenience of tourists visiting Gujarat. These are in Ahmedabad-metro, Ahmedabad (North Gujarat); Surat (South Gujarat), Vadodara (Central Gujarat), Rajkot, Junagadh and Jamnagar (Saurashtra) and Bhuj (Kutch).
 - The year 2006 was celebrated as Tourism Year in Gujarat to promote it as a key tourist destination of India.
 - Gujarat received “Best Tourism Pavilion” award in 2008 at Asia’s biggest Tourism and Travel exhibition - “SATTE-2008” held at New Delhi.
 - In 2011-12, around 22.3 million tourists visited the state.

Source: Gujarat Tourism, Government of Gujarat

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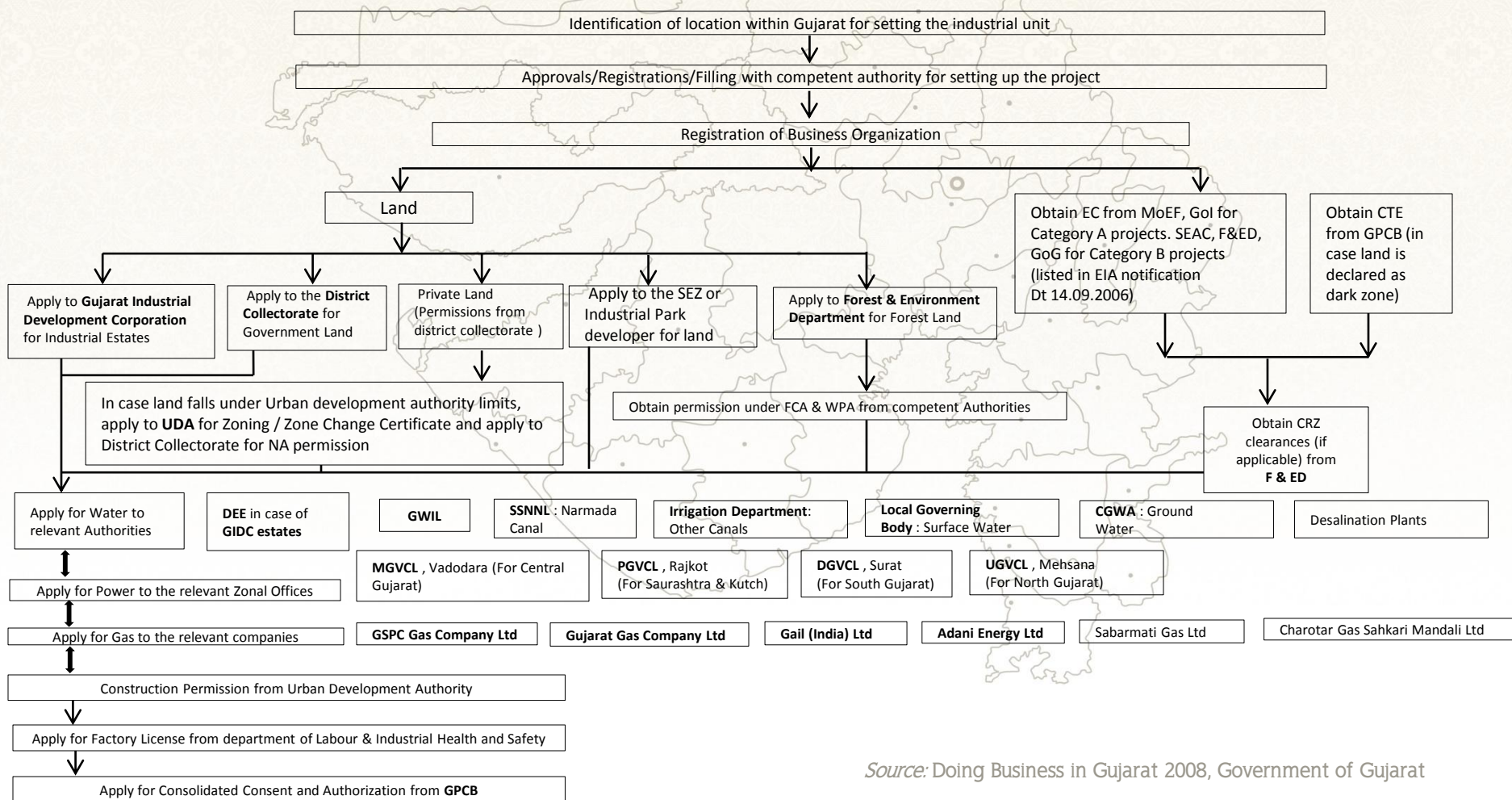
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A Roadmap for Doing Business in Gujarat



Source: Doing Business in Gujarat 2008, Government of Gujarat

Key Investment Promotion Offices ... (1/4)

Agency	Description
Industrial Extension Bureau (iNDEXTb)	<ul style="list-style-type: none"> • Promotes investment in industrial and infrastructure projects, acts as a single-point contact. • Identifies new investment opportunities and prepares project profiles. • Prepares and publishes status reports and status papers on different industry groups. • Coordinates with various government departments, chambers of commerce and industry associations at the state and central levels.
Gujarat Industrial Development Corporation (GIDC)	<ul style="list-style-type: none"> • Premier promotional agency, for providing all basic infrastructure to the industries in Gujarat. • Develops industrial estates at strategic locations all over the state. • Also offers basic amenities in industrial estates. • Develops functional estates to fulfill specific needs of certain industries. • Checks environmental degradation by resorting to specific measures.
Gujarat Agro Industries Corporation (GAIC)	<ul style="list-style-type: none"> • Promotes agricultural activities at the ground level and helps in development of agro industries. • Accelerates demand-based production of agro products to develop agro industries in the new global agricultural environment.

Key Investment Promotion Offices ... (2/4)

Agency	Description
Gujarat Small Industries Corporation (GSIC)	<ul style="list-style-type: none"> • Encourages the growth of industries in the SSI sector. • Acts as an authorised distributor and stockist of steel producers. • Assists SSI units by providing imported/indigenous raw materials.
Gujarat Infrastructure Development Board (GIDB)	<ul style="list-style-type: none"> • Attracts private sector investment in infrastructure development projects • Frames policies for involvement of other public sector infrastructure development agencies. • Liaison with banks and other financial institutions interested in financing infrastructure projects.
Gujarat State Financial Corporation (GSFC)	<ul style="list-style-type: none"> • Finances industrial units in Gujarat and the Union Territories of Dadra and Nagar Haveli. • Provides financial assistance to new and existing SSI units. • Offers finance to SSI units for obtaining ISO-9000 certification, marketing and sales promotion activities.

Key Investment Promotion Offices ... (3/4)

Agency	Description
Industries Commissionerate	<ul style="list-style-type: none"> The commissionerate functions under the Industries, Mines and Tourism Department of Government of Gujarat, and implements industrial policies of the State and Central Governments. Promotes development, monitors and controls functions for planned industrial developments in tiny, small, medium and large sectors, through a network of district industry centres, attached offices and industrial promotion corporations.
Gujarat Power Corporation Limited (GPCL)	<ul style="list-style-type: none"> Acts as a nodal agency for augmenting power generating capacity through private sector participation. Identifies power projects based on different fuels and prepares techno-economic feasibility reports. Obtains approvals from relevant authorities to prepare Power System Master Plan for the state.
Gujarat Maritime Board (GMB)	<ul style="list-style-type: none"> Contributes to the development of vital port infrastructure. Synchronises with hinterland development. Identifies green field ports for development. Specifies missing links in roads and railways and suggests upgrading existing links to facilitate easier approach to port locations.

Key Investment Promotion Offices ... (4/4)

Agency	Description
Gujarat Industrial Investment Corporation Limited (GIIC)	<ul style="list-style-type: none"> • Finances medium and large scale industries. • Arranges finance for large projects available in consortium with other central and state-level financial institutions and banks. • Provides Infrastructure financing and offers a variety of financial packages.
Tourism Corporation of Gujarat Limited (TCGL)	<ul style="list-style-type: none"> • Identifies tourism potential in the state. • Undertakes the task of developing tourism and related commercial activities. • Maintains and upgrades tourism infrastructure and hotel projects with the help of privatised professional services. • Encourages investment for development of tourism-related infrastructure.

Contact List ... (1/2)

Agency	Contact Information
Industrial Extension Bureau	Block No 18, 2nd Floor Udyog Bhavan, Sector-11, Gandhinagar-382 017 Phone: 91-79-23250492/93 Fax: 91-79-23250490 E-mail: indextb@indextb.com
Gujarat Industrial Development Corporation (GIDC)	Block No 4, 2nd Floor Udyog Bhavan, Sector-11 Gandhinagar-382 017 Phone: 91-79-2325 0636, 2325 0637 Fax: 91-79-2325 0705 E-mail: gidc@gidcgujarat.org
Gujarat Agro Industries Corporation (GAIC)	Khet Udyog Bhavan, Opp. Old Gujarat High Court, Navrangpura, Ahmedabad-380 014 Phone: 91-79-2754 4741/42/43 Fax: 91-79-2754 2518 Website: www.gujagro.org

Contact List ... (2/2)

Agency	Contact Information
Gujarat Industrial Investment Corporation Limited (GIIC)	Block No 11 & 12, 6th Floor, Udyog Bhawan, Sector-11, Gandhinagar-382 011 Phone: 91-79-2324 9641-53 Fax: 91-79-2323 6230
Gujarat State Financial Corporation (GSFC)	Block No 10, Udyog Bhavan, Sector-11 Gandhinagar-382 011 Phone : 91-79-23256793 Fax : 91-79-2325 2204 E-mail: webmaster-gsfc@gujarat.gov.in
Gujarat Infrastructure Development Board (GIDB)	Block No 18, 8th Floor , Sector-11, Udyog Bhavan Gandhinagar - 382 017 Phone: 91-79-23232701/ 4 Fax: 91-79-23222481 E-mail: gidb@gidb.org
Industries Commissionerate	Block No 1, 2nd Floor, Udyog Bhavan Gandhinagar-382 010 Phone : 91-79-23252683, 23252617 E-mail: iccord@gujarat.gov.in

Key Approvals Required ... (1/4)

Approvals and Clearances Required	Departments
Approvals/Registration/Filing Information for Setting up Project	<ul style="list-style-type: none"> • SSI Registration – District Industries Centre (DIC) • Industrial Entrepreneur's Memorandum (IEM) – DIC/ Industries Commissionerate, Government of Gujarat • Filing Industrial Entrepreneur's Memorandum (IEM) and Letter of Intent (LoI) – Secretariat for Industrial Assistance, Ministry of Commerce and Industry, Government of India • Letter of Permission (LoP) - The Development Commissioner, Kandla Special Economic Zone, Ministry of Commerce and Industry, Government of India, Kandla (Dist. Kutch), Gujarat • For automatic approvals - The Development Commissioner, Kandla Special Economic Zone, Ministry of Commerce and Industry, Government of India, Kandla (district Kutch), Gujarat. • For other industries - Secretariat for Industrial Assistance, Ministry of Commerce and Industry, Government of India, New Delhi.
Registration of Business Organisation	<ul style="list-style-type: none"> • Registrar of Partnership Firms, Government of Gujarat for partnership firms and Registrar of Companies, Government of India (office located in Ahmedabad) for corporations.
Acquisition of Land	<p>Authority for lands:</p> <ul style="list-style-type: none"> • In GIDC estate - Concerned office of GIDC • Government land - Concerned district collector or collector/district development officer • Private land (purchase of agricultural land for non-agricultural use) – Private land owner • Forest land - Ministry of Forest & Environment, State Wild Life Board, National Wild Life Board and Supreme Court (for land reserved for wildlife sanctuaries or national parks).

Key Approvals Required ... (2/4)

List of Approvals and Clearances Required	Respective Departments of States
Clearance from Pollution Control Board	No Objection Certificate (NOC) to be obtained from Gujarat Pollution Control Board (GPCB) Environmental clearance:- Ministry of Environment and Forest and Government of Gujarat (State Impact Assessment Committee).
Arrangement of Power	<ul style="list-style-type: none"> • GIDC estates - Zonal office • Locations other than GIDC estates - Zonal distribution company • Captive power - Gujarat Energy Transmission Corporation Limited (GETCO)
Arrangement of Gas	Gujarat State Petroleum Corporation (GSPC) or private distributor.
Arrangement of Water	<p>Authority depends on the location of unit: Proximity to Narmada Canal – Sardar Sarovar Narmada Nigam Limited (SSNNL) For drawing canal/underground water other than Narmada Canal – Irrigation department. For drawing water from the pipeline of Gujarat Water Infrastructure Limited (GWIL) – GWIL Surface water – Local governing bodies (municipal corporations) For the usage of ground water for industrial purposes from the area falling under dark zone, over-exploited area or saline area – The Superintendent, from Gujarat, Gujarat Water Resources Development Corporation (GWRDC) Water supply for industrial purposes within GIDC estate–Deputy Executive Engineer of the concerned estate.</p>
Approval of Building Plans	<p>Authority depends on location of the unit, if the unit is located:</p> <ul style="list-style-type: none"> • In GIDC estates – GIDC executive engineer in the region. • Inside and Outside GIDC estates – Director, Industrial Safety and Health, is authorised to give approval to plans of the premises, equipment layout and process layout, registration of factory and grant of licenses.

Key Approvals Required ... (3/4)

Approvals and Clearances Required	Departments
Approval from Labour Department	Labour Commissioner
Approval from Commercial Tax Department	Value-Added Tax (VAT) registration and Central Sales Tax (CST) registration: Respective area officer in whose jurisdiction the chief place of business falls.
Mining Lease Approval	Department of Geology and Mining
Boiler Registration	Chief Inspectorate, Steam and Boiler, Government of Gujarat
Handling of Hazardous Items	Director of Industrial Safety and Health, Government of Gujarat
Storage of Explosive Materials	Directorate of Explosives, Government of India
Customs Bonding for 100 per cent Export Oriented Units Located Outside Special Economic Zones	Collector of Customs & Central Excise, Government of India
Quality Certification	Bureau of Indian Standards (office located in Gujarat)

Key Approvals Required ... (4/4)

Sector-Specific Approvals	
Sector	Authority
Food and Drug Manufacturing Units	Commissionerate of Food & Drug Administration, Government of Gujarat
Registration for Milk Products	Milk and Milk Products Board, New Delhi
Projects Located within 500 m of the Coastline	Gujarat Maritime Board

Single-Window Clearance
Industrial Extension Bureau (iNDEXTb) provides single point contact for all investment activities in Gujarat

Source: Doing Business in Gujarat 2008

Cost of Doing Business in Gujarat

Cost Parameter	Cost Estimates	Source
Cost of Land (per sq ft)	US\$ 10 to US\$ 150	Industry Sources
Hotel Room Cost (per night)	US\$ 40 to US\$ 180	Indian Hotel Survey
Office Space (rent per sq ft per annum)	US\$ 12 to US\$ 36	Industry Sources
Residential Space (rent per sq ft per annum)	US\$ 2 to US\$ 6.5	Industry Sources
Power Cost (per kWh)	Energy Charges: US\$ 0.07 to US\$ 0.1	Gujarat Electricity Regulatory Commission
Labour Cost (minimum wage per day)	US\$ 2.2 to US\$ 4.1	Ministry of Labour and Employment, Government of India

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State Acts & Policies ... (1/3)

Gujarat Textile Policy - 2012

Objective

- To transform the state cotton industry as the leader in manufacturing of yarn, fabric and garment with a policy to work on five F's – Farm, Fibre, Fabric, Fashion (Garment) & Foreign (Export).

[Read more](#)

Shipbuilding Policy 2010

Objectives

- To explore potential as well as resources available on the Gujarat coast for shipbuilding.
- To enhance industrial growth of the state by encouraging establishment of downstream ancillary industries.

[Read more](#)

Gujarat Industrial Policy 2009

Objective

- To facilitate investments in the state, generate employment and adhere to high quality standards.

[Read more](#)

State Acts & Policies ... (2/3)

Power Generation Policy 2009

Objectives

- To develop the state of Gujarat as a power-generation hub.
- To have adequate availability of power in the state for agriculture, households, industry etc.

[Read more](#)

Solar Power Policy 2009

Objectives

- To promote power generation of green and clean power in the state using solar energy.
- To promote employment generation and skill enhancement of local youth.

[Read more](#)

Gujarat State Mineral Policy 2003

Objectives

- To explore opportunities in the sector of mineral resources of the state.
- To enhance efficiency by adopting e-governance.

[Read more](#)

State Acts & Policies ... (3/3)

SEZ Policy of Gujarat, 2002

Objective

- To encourage investment and export oriented units in the state through specified facilities and concessions.

[Read more](#)

Agro Industrial Policy, 2000

Objective

- To make Gujarat the destination of choice for investors and processors, both global and domestic.

[Read more](#)

Gujarat Port Policy

Objectives

- To promote Gujarat's share in ports.
- To attract private sector investment in the existing minor and intermediate ports.

[Read more](#)

Gujarat Road Policy

Objectives

- To facilitate investments in the road sector.
- To induct more scientific principles of resource allocation for maintenance and new construction programmes.

[Read more](#)

Annexure

Exchange Rates

Year	INR equivalent of one US\$
2004-05	44.95
2005-06	44.28
2006-07	45.28
2007-08	40.24
2008-09	45.91
2009-10	47.41
2010-11	45.57
2011-12	47.94

Average for the year

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