

Punjab

MARCH
2013

LAND OF FIVE RIVERS



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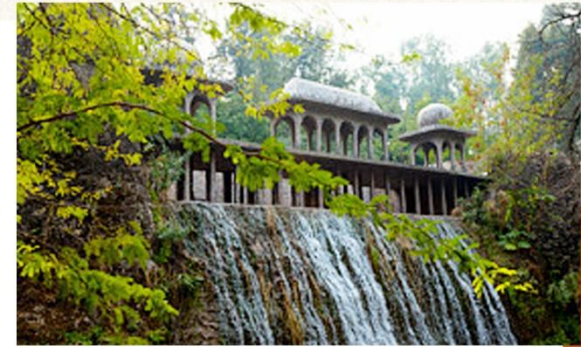
Punjab

LAND OF FIVE RIVERS

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- ❖ Infrastructure Status
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Punjab Factfile



- As its borders, the state has the Pakistani province of Punjab to its West, Jammu and Kashmir in the North, Himachal Pradesh in the Northeast, Haryana in the South and Southeast and Rajasthan in the Southwest.
- The most commonly spoken language of the state is Punjabi. Hindi and English are the other widely-used languages.

- Amritsar, Ludhiana, Jalandhar, Bhatinda, Mohali, Pathankot and Patiala are some of the key cities in the state.
- The state has three major seasons, viz., hot weather (April-June), rainy season (July-September) and cold weather (October-March). Because of the presence of large rivers, most of the state is a fertile plain. The state has three major rivers; Ravi, Beas and Satluj, flowing through it.

Parameters	Punjab
Capital	Chandigarh
Geographical area (sq km)	50,362
Administrative districts (No)	22
Population density (persons per sq km)*	550
Total population (million)*	27.7
Male population (million)*	14.6
Female population (million)*	13.1
Sex ratio (females per 1,000 males)*	893
Literacy rate (%)*	76.7

Sources: Government of Punjab Website, www.punjabgovt.nic.in,
*Provisional Data – Census 2011

Punjab in Figures ... (1/2)

Parameter	Punjab	All-States	Source
Economy			
GSDP as a percentage of all states' GSDP	3.3	100	CMIE, 2010-11, current prices
Average GSDP growth rate(%)*	15.4	15.9	CMIE, 2004-05 to 2010-11, current prices
Per capita GSDP (US\$)	1,733.1	1,324.3	CMIE, 2010-11, current prices
Physical Infrastructure			
Installed power capacity (MW)	7,502.9	211,766.2	Central Electricity Authority, as of January 2013
Wireless subscribers (No)	28,998,608 [^]	864,720,186	Telecom Regulatory Authority of India, as of December 2012
Broadband subscribers (No)	657,822 [^]	13,350,938	Ministry of Communications & Information Technology, as of December 2011
National Highway length (km)	1,557	76,818	Ministry of Road Transport & Highways, as of June 2012
Airports (No)	4	133	Airport Authority of India

* Calculated in Indian Rupee Terms
[^]Including Chandigarh

Punjab in Figures ... (2/2)

Parameter	Punjab	All-States	Source
Social Indicators			
Literacy rate (%)	76.7	74.0	Provisional Data – Census 2011
Birth rate (per 1,000 population)	16.2	21.8	SRS Bulletin (www.censusindia.gov.in), 2012
Ease of doing business			
FDI equity inflows (US\$ billion)	1.1*	187.9	Department of Industrial Policy & Promotion, April 2000 to December 2012
Outstanding investments (US\$ billion)	190.9	11,318.3	CMIE (2011-12)
Industrial Infrastructure			
PPP projects (No)	35	881	www.pppindiadatabase.com
SEZs (No)	2	386	Notified as of January 2013, www.sezindia.nic.in

PPP: Public Private Partnership, SEZ: Special Economic Zone, SRS: Sample Registration System
*Includes Chandigarh, Punjab, Himachal Pradesh and Haryana

Advantage Punjab ... (1/2)

Hub for Textile-based Industries

Punjab has emerged as a key hub for textile-based industries including yarn, readymade garments and hosiery. In 2009-10, the industry accounted for more than 35.0 per cent share of the total exports of industrial goods from the state. Punjab is also a leading exporter of rice, including the well-known variety - Basmati.

Policy and Fiscal Incentives

The state offers a wide range of subsidies, fiscal and policy incentives as well as assistance for businesses under the Industrial Policy, 2009. Additionally, the state has sector-specific policies for textile, IT and agro-based industries.

Fertile and Productive Land

Because of the major rivers, Punjab state has rich and productive agricultural land. After the introduction of “Green Revolution” in the late 1960s, it has become a leading food-grain supplier in the country. This makes it suitable for agro-based industries, dairy farming and products, and other food processing industries.

Advantage Punjab ... (2/2)

Facilitating Infrastructure

The state has well-developed social and industrial infrastructure. It also has good road, rail and air connectivity. The telecommunications and utilities infrastructure is also well-developed.

High Infrastructural Growth

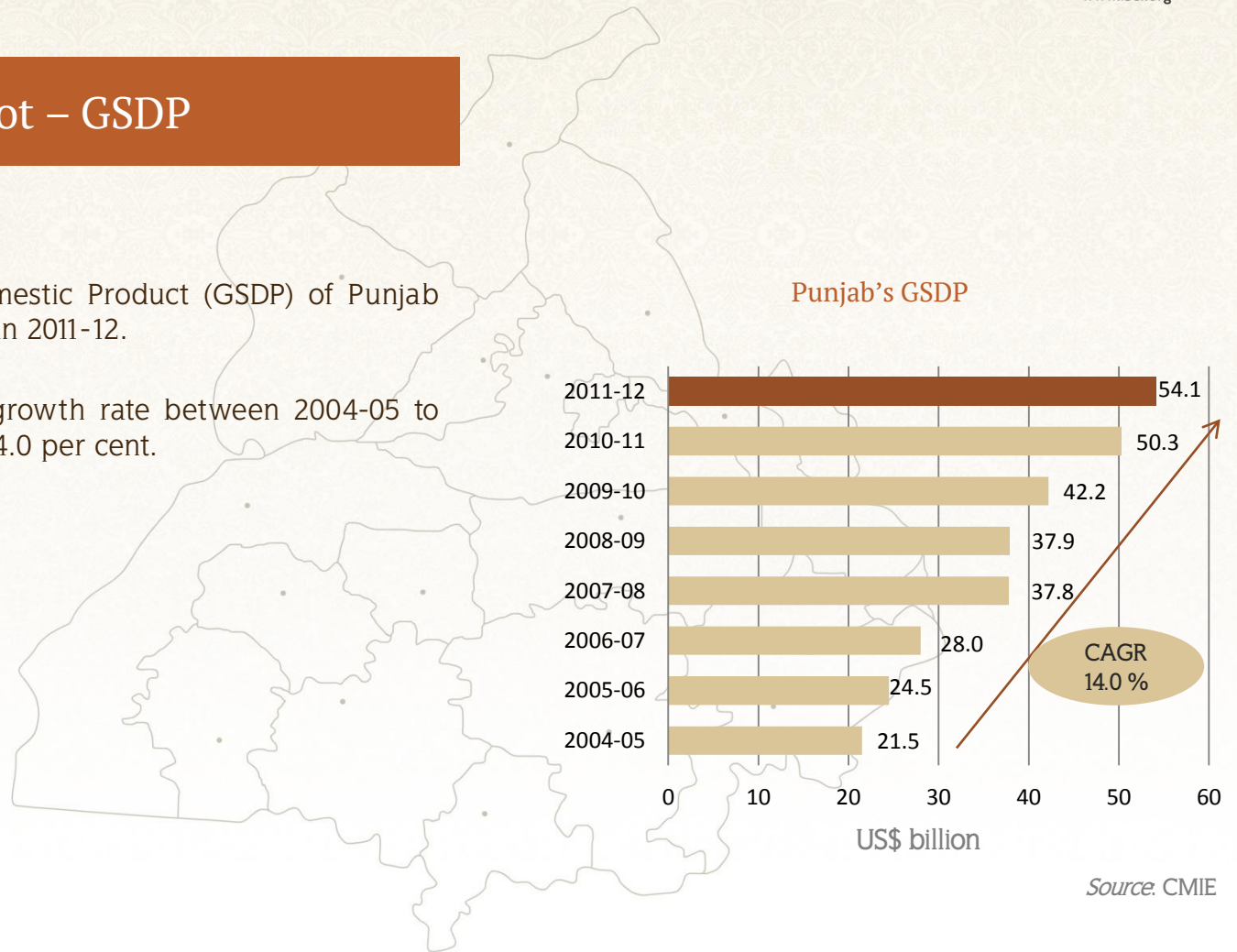
The state has witnessed high infrastructural growth in the past few years. The state has witnessed a considerable increase in the number of industrial clusters and hubs. Public private partnerships have been encouraged in the sector.

Stable Political Environment

The state has a stable political environment. The State Government is committed towards providing good business environment by adhering to the stated policies and incentives.

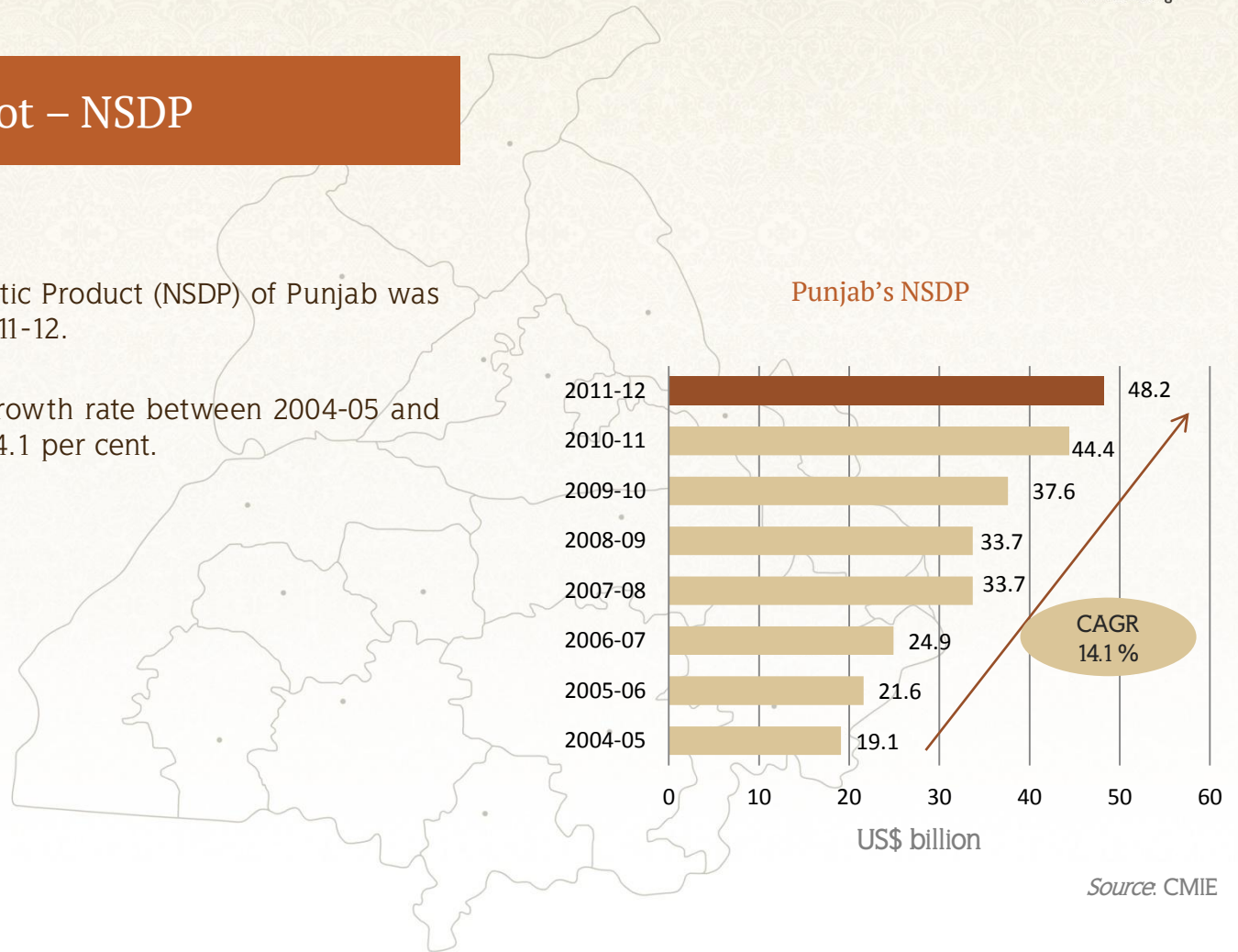
Economic Snapshot – GSDP

- The Gross State Domestic Product (GSDP) of Punjab was US\$ 54.1 billion in 2011-12.
- The average GSDP growth rate between 2004-05 to 2011-12, was about 14.0 per cent.



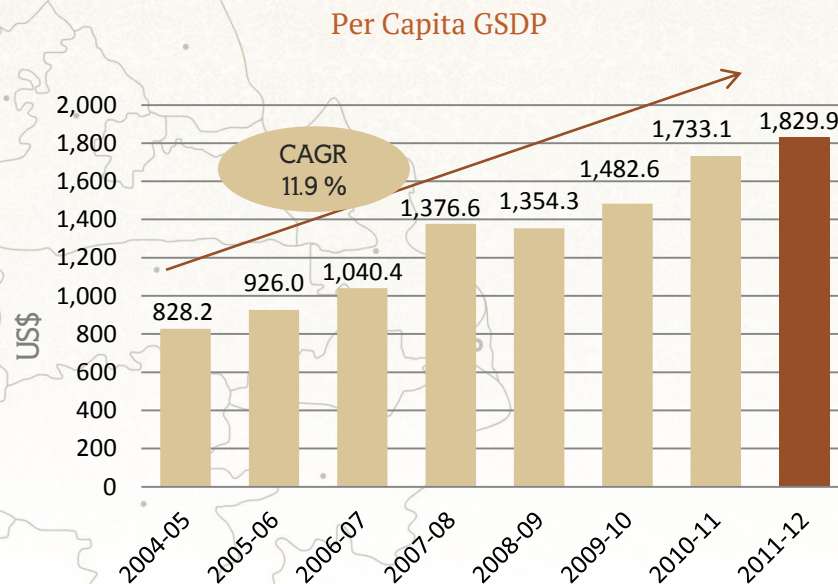
Economic Snapshot – NSDP

- The Net State Domestic Product (NSDP) of Punjab was US\$ 48.2 billion in 2011-12.
- The average NSDP growth rate between 2004-05 and 2011-12, was about 14.1 per cent.



Economic Snapshot – Per Capita GSDP

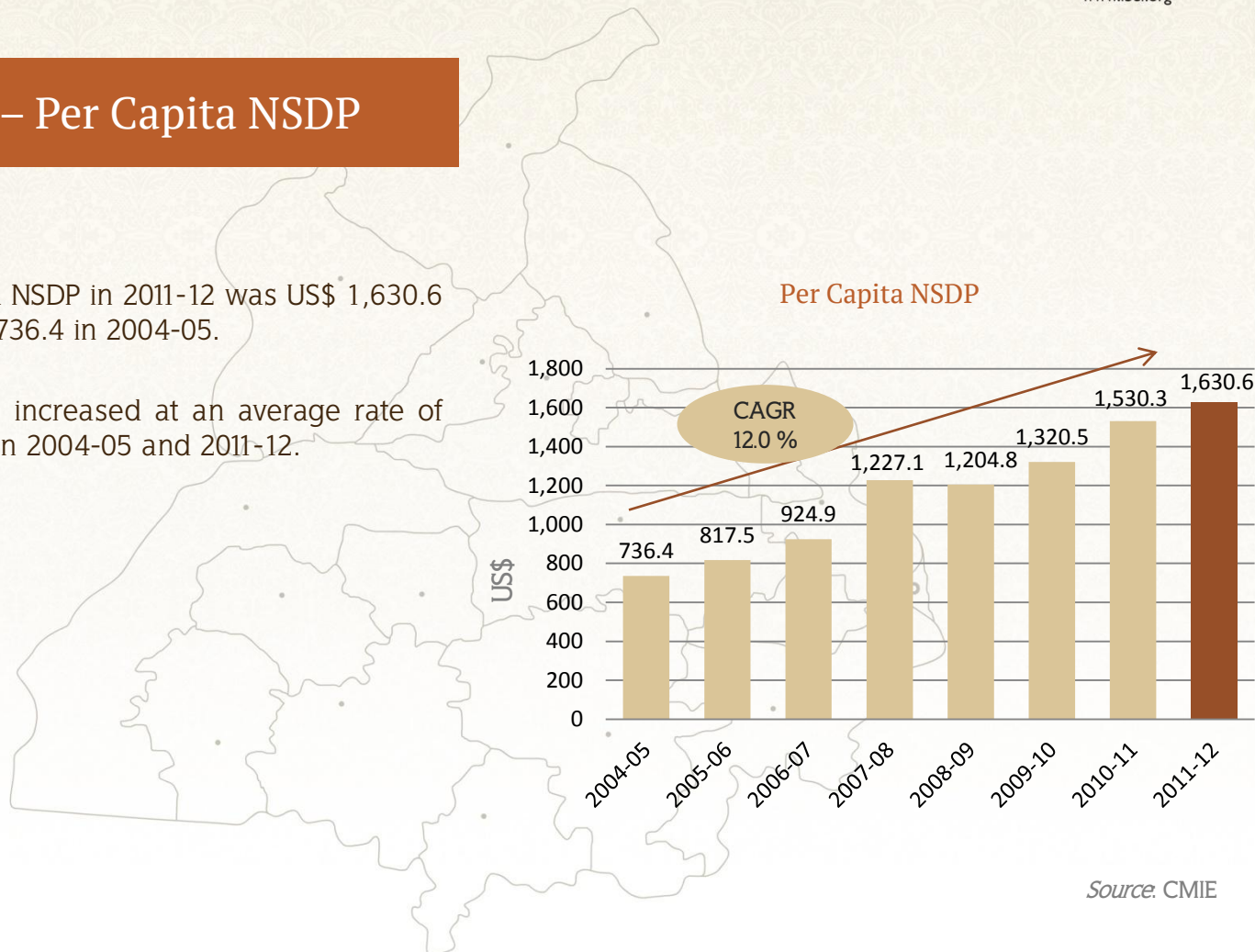
- The state's per capita GSDP in 2011-12 was US\$ 1,829.9 as compared to US\$ 828.2 in 2004-05.
- The per capita GSDP grew at a Compound Annual Growth Rate (CAGR) of 11.9 per cent between 2004-05 and 2011-12.



Source: CMIE

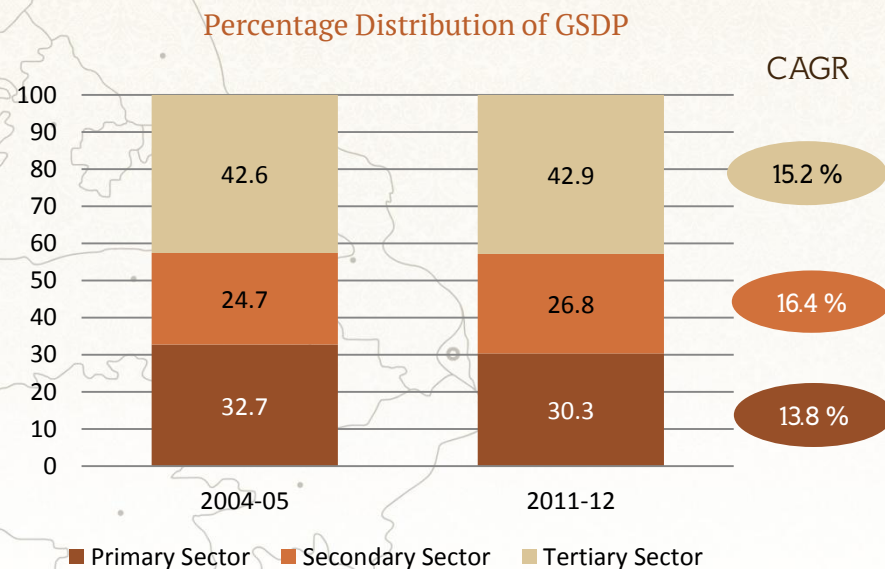
Economic Snapshot – Per Capita NSDP

- The state's per capita NSDP in 2011-12 was US\$ 1,630.6 as compared to US\$ 736.4 in 2004-05.
- The per capita NSDP increased at an average rate of 12.0 per cent between 2004-05 and 2011-12.



Economic Snapshot – Percentage Distribution of GSDP

- At a CAGR of 16.4 per cent, the secondary sector has been the fastest growing among the three sectors from 2004-05 to 2011-12. The growth has been driven by manufacturing, construction and electricity, gas & water supply.
- The tertiary sector, the largest contributor to Punjab's economy, grew at a CAGR of 15.2 per cent between 2004-05 and 2011-12. It was driven by trade, hotels, real estate, finance, insurance, communications, transport and other services.
- The primary sector grew at a CAGR of 13.8 per cent between 2004-05 and 2011-12.



Source: CMIE

Economic Snapshot – Agricultural Production

- In 2011-12, the total production of food grains in the state was around 28.3 million metric tonnes.
- In 2010-11, the total fruit production was 1.37 million metric tonnes.
- Of the food grains, wheat was the major crop. It was followed by rice and maize.
- Punjab is the second-largest producer of wheat in the country. In 2011-12, the state contributed around 18.3 per cent to the country's total wheat production.
- Potato production in the state was around 2.08 million metric tonnes in 2010-11.

Crop	Annual Production – 2011-12 ('000 metric tonnes)
Wheat	17,206
Rice	10,542
Sugarcane	4,670
Cotton	2,300*
Maize	491^
Barley	44^
Gram	3^
Total Oilseeds	67
Total Pulses	53

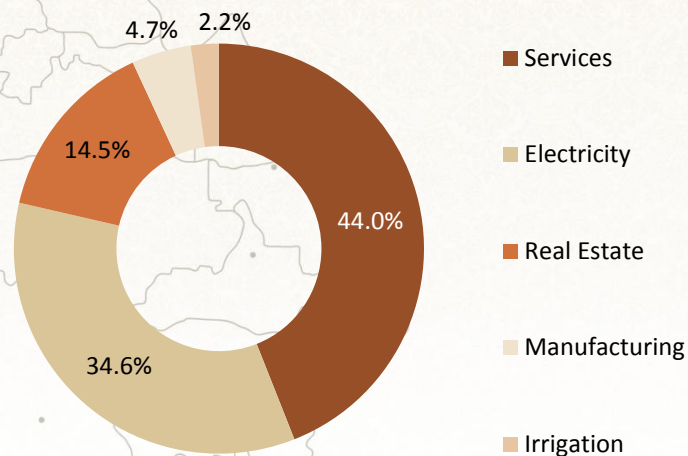
Sources: Reserve Bank of India, Economic Survey of Punjab 2011-12
*'000 Bales (170 kgs each)
^In 2010-11 (Provisional)

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\$ 1.18 billion*.
- In 2011-12, outstanding investments in the state were US\$ 190.9 billion.
- In 2011-12, the services sector had the highest share of outstanding investments, accounting for about 44.0 per cent. It was followed by the electricity sector with a share of about 34.6 per cent and real estate with about 14.5 per cent.

*Includes Chandigarh, Punjab, Himachal Pradesh and Haryana

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



Source: CMIE

Economic Snapshot – Export Trends

- Total exports of industrial goods from Punjab were valued at US\$ 3.8 billion in 2010-11 as compared to US\$ 3.3 billion in 2009-10.
- In 2010-11, the principal export items were hosiery and readymade garments, yarns and textiles, engineering goods, rice and auto parts.
- Ludhiana, Jalandhar and Gurdaspur accounted for around 96.0 per cent of the total exports of industrial goods from Punjab in 2010-11.



Source: Statistical Abstract Punjab 2011

Principal Items	Exports – 2010-11 (US\$ million)
Hosiery and Readymade Garments	1,186.7
Yarn and Textile	877.8
Engineering Goods	520.4
Rice	471.8
Auto Parts	248.6
Sports Goods	86.3
Bicycle and Parts	65.0
Machine Tools/Hand Tools	61.1
Food Products	28.8
Electrical Switch Gears and Electrical Accessories	21.2

Source: Statistical Abstract Punjab 2011

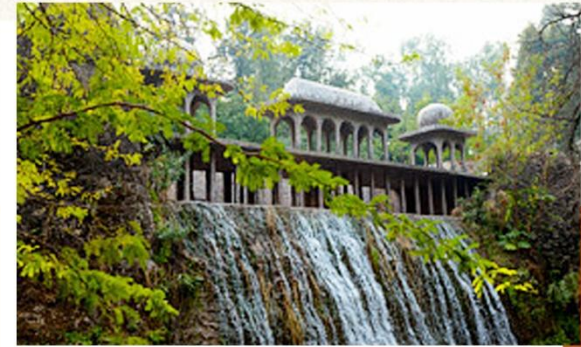
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Physical Infrastructure – Roads



Source: Maps of India

- The state is well connected to its four neighbouring states and the rest of India through 12 National Highways (NH).
- The state's highways account for about 2.0 per cent of the total national highway network in India.
- Punjab Roadways, established in 1948, with a fleet of 13 buses, provides an economical, reliable and comfortable transport service in the state, with connecting services to adjoining states.
- Punjab and East Punjab States Union (PEPSU) Road Transport Corporation, set up in October 1956, controls the road transport services in the state.

Road Type	Road Length (km)
National Highways	1,557
State Highways	1,479
District Roads	6,594
Village Link Roads	51,059

Sources: Ministry of Road Transport & Highways, Department of Planning, Government of Punjab

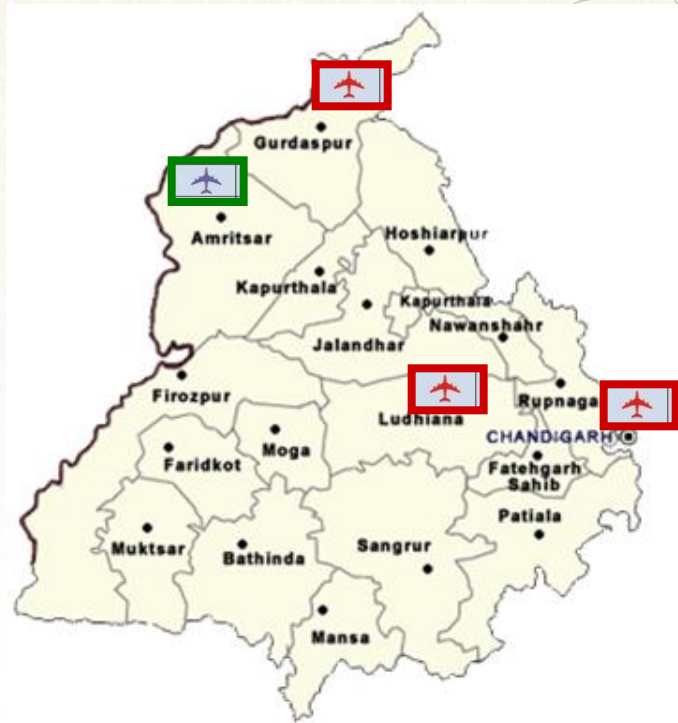
Physical Infrastructure – Railways



Source: Maps of India

- The railways have a major role in the state. It connects major industrial units in the oil refining, cement, fertiliser, thermal power and manufacturing sectors to suppliers and markets.
- Punjab's railway network spans about 2,134 km. It falls in the jurisdiction of the Northern Railways that spreads across Punjab, Jammu and Kashmir, Haryana, Himachal Pradesh, Uttarakhand, Uttar Pradesh, Delhi and Chandigarh.
- The main inter-state railway routes are Amritsar-Ambala-Delhi, Sri Ganganagar-Ambala-Delhi, Ferozpur-Ludhiana-Ambala, Pathankot-Roopnagar-Fatehgarh Sahib and Sri Ganganagar-Bhatinda-Narwana.
- The state also has intra-state rail network connecting various towns and district headquarters.
- The State Government is planning a metro rail project in Ludhiana. The project will be on public-private partnership (PPP) basis.

Physical Infrastructure – Airports



International airport



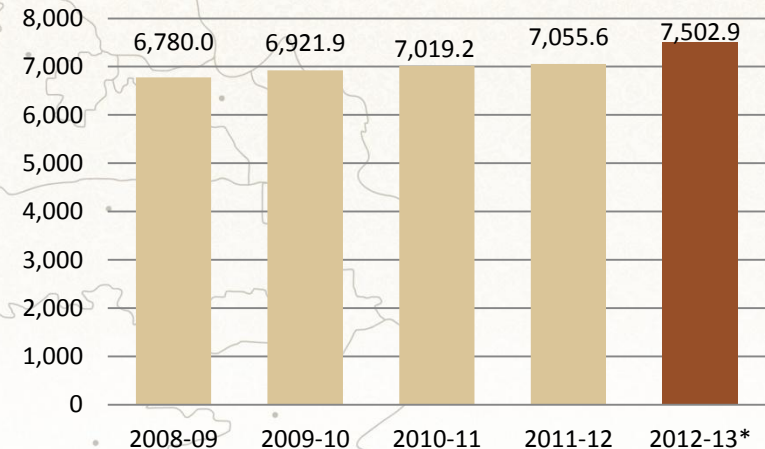
Domestic airport

- The state has three domestic airports. They are located in Chandigarh, Ludhiana and Pathankot.
- International flights operate from the Sri Guru Ram Dass Jee International Airport at Amritsar.
- New airports have been proposed at Mohali, Bathinda and Ludhiana. They are at various stages of approvals and completion.
- Approval from the Indian Air Force (IAF) is awaited, so as to kick-start construction of the new International Airport in Mohali.
- The new greenfield Ludhiana Airport is proposed to be developed as an aerotropolis (a modern-age concept of a township-oriented airport similar to the Singapore and Frankfurt models) with a total outlay of US\$ 3.8 billion.

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

- As of January 2013, Punjab had a total power generation installed capacity of 7,502.97 MW. It consisted of 5,129.73 MW under state utilities, 1,876.16 MW under central utilities and 497.08 MW under private sector.
- Of the total power generation installed capacity, 3,898.46 MW was contributed by thermal power, 3,014.89 MW was contributed by hydropower, 381.58 MW was contributed by renewable power and nuclear power contributed 208.04 MW of capacity.
- The Punjab Energy Development Agency (PEDA) is the nodal organisation for renewable energy development in the state.
- In April 2010, Government of Punjab unbundled Punjab State Electricity Board (PSEB) into two companies; Punjab State Power Corporation Limited (PSPCL) and Punjab State Transmission Corporation Limited (PSTCL).

Installed Power Capacity (MW)



Source: Central Electricity Authority
*As of January 2013

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

- Punjab has been focussing on maximising the use of existing capacities, reducing Transmission and Distribution (T&D) losses, developing captive power plants and adopting non-conventional sources for power generation.
- In 2010-11, the per capita consumption of electricity in Punjab was 1,163 kwh.
- The 540 MW Goindwal Sahib Thermal Power Project awarded to the GVK Power Group in the private sector has achieved financial closure in 2010. In August 2010, GVK proposed to expand capacity of the plant by 1,320 MW, which is under consideration by the State Government.
- Two thermal power plants are to be constructed in the state. The first, which will be located at Talwandi Sabo in the Mansa district, will have a total generation capacity of 2,640 MW and will be developed by Sterlite Energy Limited (SEL), under Build-Own-Operate (BOO) basis. The second, located at Nalash village in the Patiala district, will have a total capacity of 1,320 MW and will be developed by Nabha Power Limited, a subsidiary of the engineering company, Larsen & Toubro.

Physical Infrastructure – Telecom

- According to Telecom Regulatory Authority of India (TRAI), Punjab telecom circle had 28.99 million[^] wireless subscribers and 1.37 million[^] wire-line subscribers as of December 2012.
- The teledensity in the state was 101.92[^] per cent, significantly higher than the national average of 73.34 per cent, as of December 2012.
- The state had 3,834 post offices, as of January 2013.
- As of December 2011, the state had 1,511 telephone exchanges.

Telecom Infrastructure (December 2012)

Wireless Connections [^]	28,998,608
Wire-line Connections [^]	1,370,143
Broadband Subscribers [^]	657,822*
Post Offices	3,834**
Telephone Exchanges	1,511*

Sources: Telecom Regulatory Authority of India,

• Department of Telecommunications Annual Report 2011-12,
Ministry of Communication and Information Technology,

• Government of India, India Post

[^]Including Chandigarh

*As of December 2011

**As of January 2013

Some of the Major Telecom Operators in Punjab

Bharat Sanchar Nigam Limited (BSNL)

Bharti Airtel

Idea Cellular

Vodafone Essar

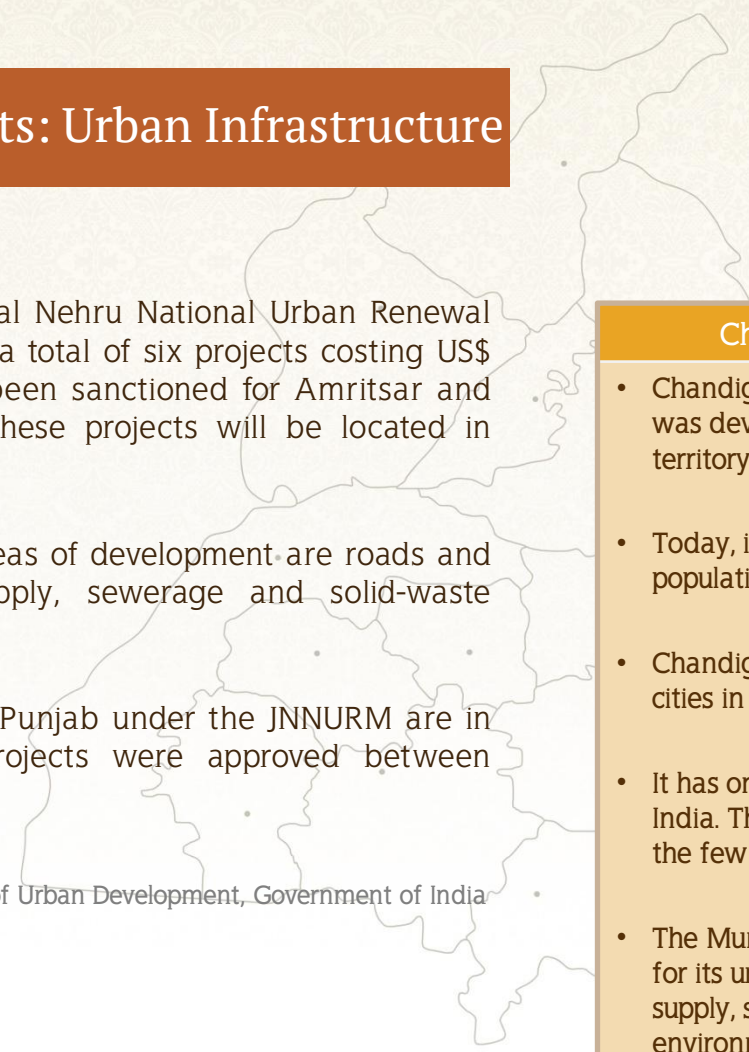
Reliance Communications

Tata Teleservices

Aircel Limited

Source: Telecom Regulatory Authority of India

Development Projects: Urban Infrastructure

- 
- Under the Jawaharlal Nehru National Urban Renewal Mission (JNNURM), a total of six projects costing US\$ 171.3 million have been sanctioned for Amritsar and Ludhiana. Five of these projects will be located in Amritsar.
 - Some of the key areas of development are roads and flyovers, water supply, sewerage and solid-waste management.
 - All the projects for Punjab under the JNNURM are in progress. These projects were approved between 2006 and 2009.

Source: JNNURM; Ministry of Urban Development, Government of India

Chandigarh – The Original Planned City

- Chandigarh, the joint capital city of Haryana and Punjab, was developed as a planned city. It is also a union territory.
- Today, it has expanded both in terms of industry and population.
- Chandigarh still remains a model for many other Indian cities in terms of civic amenities.
- It has one of the best electricity distribution systems in India. The Union Ministry of Power selected it as one of the few model distribution centres in the country.
- The Municipal Corporation of Chandigarh is responsible for its urban infrastructure facilities including water supply, sewerage, roads, slum development, fire service, environment, city beautification and house tax.

Development Projects: Key Public Private Partnership Projects

Project Name	Sector	PPP Type	Project Cost (US\$ million)	Stage
Panipat-Jalandhar	Road	BOT-Toll	497	Construction
Zirakpur-Parwanoo	Road	BOT-Toll	104	Construction
Kurali-Kiratpur NH-21	Road	BOT-Toll	85	Construction
Ambala-Zirakpur	Road	BOT-Toll	65	In Operation
Jalandhar-Amritsar	Road	BOT-Toll	57	Construction
Amritsar-Wagha Border	Road	BOT-Annuity	45	Construction
Greenfield Super Specialty Hospital at Mohali	Healthcare	DBFOT	26	Construction
Up-gradation, Operation and Maintenance of Ferozepur-Fazilka Road	Road	BOT-Toll	23	Construction
Greenfield Super Specialty Hospital at Bathinda	Healthcare	DBFOT	22	Construction
Development of Bhawanigarh-Nabha-Gobindgarh Road Project	Road	BOT-Toll	15	Construction
Development of Modern Bus Terminal at Amritsar	Urban Development	BOT-Annuity	4	In Operation

Source: pppindiadatabase.com

BOT: Build-Operate-Transfer, DBFOT: Design-Build-Finance-Operate-Transfer

Development Projects: SEZs

SEZs with Formal Approvals

Name/Developer	Area	Primary Industry
QuarkCity India Private Limited (Notified)	Mohali	IT
Ranbaxy Laboratories Limited (Notified)	Mohali	Pharmaceuticals
Lark Projects Private Limited	Mohali	Electronic Hardware and Software including ITeS
Sukhmani Towers Private Limited	Nenetpur and Jawaharpur	IT/ITeS
Sukhm Infrastructure Private Limited	Mohali	IT
ATS Estates (P) Limited	Patiala	IT/ITeS
Shipra Estate Limited	Mohali	IT/ITeS
Ishan Developers & Infrastructure Private Limited	Amritsar	Textiles

Source: www.sezindia.nic.in

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

- Punjab has a literacy rate of 76.7 per cent according to the provisional data of Census 2011; the male literacy rate is 81.5 per cent and the female literacy rate is 71.3 per cent.
- The state had 101 engineering colleges and 119 polytechnic colleges, as of 2011-12.
- As of 2011-12, the state had 13 universities and 42,688 schools. The Panjab University is more than 100 years old and is well regarded, globally.
- The Punjab Agricultural University at Ludhiana is well known for its outstanding contributions to education, research and extension services in the field of agriculture.
- Private participation in technical and vocational education is being encouraged.
- The State Government is planning to set up an Indian Institute of Information Technology (IIIT) in Kapurthala.

Position of Elementary & Secondary Education (2011-12)

Primary Schools	22,535
Upper Primary Schools	13,753
Secondary Schools	3,254
Senior Secondary Schools	3,146

Source: Department of Planning, Government of Punjab

Punjab's Primary Education Statistics (2011-12)

Net Enrolment Ratio	Primary: 87.27 Upper Primary: 70.47
Gross Enrolment Ratio	Primary: 94.23 Upper Primary: 76.79
Dropout Rate	Primary: 2.01 Upper Primary: 1.51

Source: Annual Plan 2012-13, Government of Punjab

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

- Major educational institutes in Punjab are:
 - Post Graduate Institute of Medical Education and Research (PGIMER), Chandigarh
 - Indian Institute of Technology, Ropar
 - Christian Medical College, Ludhiana
 - University Business School, Chandigarh
 - Punjab Agricultural University, Ludhiana
 - Baba Farid University of Health Sciences
 - Chitkara Institute of Engineering and Technology, Patiala
 - National Institute of Technology, Jalandhar

Category	Literacy Rate (%)
Overall	76.7
Male	81.5
Female	71.3

Source: Census 2011 (provisional data)

Educational Infrastructure (2011-12)	
Universities	13
Colleges	852*
Engineering Colleges	101
Polytechnic Colleges	119
Management Institutions	124

Sources: Department of Planning, Government of Punjab,
University Grants Commission
*As of 2010-11

Social Infrastructure – Health

- The public healthcare infrastructure of the state has a three-tier structure comprising Hospitals, Primary Health Centres and Sub-centres, Health Units and Community Health Centres.
- As of March 2011, the average radius served per healthcare institution was 2.7 km.
- Around 90.0 per cent of non-hospital healthcare and 67.0 per cent of hospital care cases are handled by private healthcare services.

Health Indicators of Punjab (2011)	
Population Served Per Doctor	1,210 [^]
Birth Rate*	16.2
Death Rate*	6.8
Infant Mortality Rate**	30.0
Life Expectancy at Birth (Years)	
Male (2002-06)	68.4
Female (2002-06)	70.4

Health Infrastructure (as of March 2011)	
Hospitals	91
Primary Health Centres	444
Ayurvedic and Unani Institutions	529
Homoeopathic Institutions	111
Community Health Centres	130
Dispensaries	1,412

Sources: Sample Registration System (SRS) Bulletin 2012, (www.censusindia.gov.in), Department of Planning, Government of Punjab

*Per thousand persons

**Per thousand live births

[^]As of 2011-12

Source: Economic Survey of Punjab 2011-12

Cultural Infrastructure

- Hockey and wrestling are the prominent sports in Punjab.
- The state has a number of sports stadiums and clubs in Chandigarh, Mohali, Amritsar, Jalandhar and other parts of the state.
- The state has a scheme for having a stadium at the block-level, with indoor facilities for wrestling, boxing, judo, weight lifting, etc. Construction of such facilities have been completed in 12 blocks.
- The state also has a proposal to construct a national-level stadium in each district with a multipurpose hall, a swimming pool and eight-lane cinder track.
- Golden Temple, Jalianwala Bagh and the Wagah Border (with Pakistan) at Amritsar are the main tourist destinations in the state.

Major Hotels in Punjab

Hotel	City
Hotel Regency	Chandigarh
Hotel Piccadily	Chandigarh
Hotel Radisson Windsor	Jalandhar
President Hotel	Jalandhar, Chandigarh
Hotel City Heart	Ludhiana
Hotel Chevron International	Ludhiana
Mohan International	Amritsar

Sources: Department of Sports, Department of Tourism,
Government of Punjab

Industrial Infrastructure

Name and Location	Primary Industry	Description
Electronics Township (ELTOP), Mohali	Electronics	Set up by Punjab Information and Communication Technology Corporation Limited (Punjab Infotech) for promotion and growth of the electronics industry in the state.
Industry Clusters	Industry Specific	Clusters identified for bicycles and bicycle parts (Ludhiana), steel re-rolling (Mandi Gobindgarh), textiles (Ludhiana), sports and leather goods (Jalandhar), and woollens (Amritsar).
Food Park Project, Sirhind, Fatehgarh Sahib District	Agro-Processing	Joint initiative of a Non-Resident Indian (NRI) group and Punjab Agro Industries Corporation; spread over 25 acres and one of India's largest and most sophisticated integrated vegetable and fruit processing complexes with support facilities for an annual capacity of over 5,000 Million Tonnes (MT) frozen storage facility and 5,000 MT cold storage facility.
Apparel Park, Doraha, Ludhiana	Textiles	Integrated textile park with 115 plots jointly developed by Punjab Small Industry and Export Corporation Limited and the Association of Textile Industry.
Biotech Park, Dera Bassi, Chandigarh	Biotech	It has all the basic facilities of water, electricity, R&D lab and sewage treatment facility etc.
SEZ, Mohali	IT and Electronics; Pharmaceuticals	SEZ status has been granted to QuarkCity in Mohali to promote the IT and electronics sectors and to Ranbaxy's SEZ at SAS Nagar, Mohali.

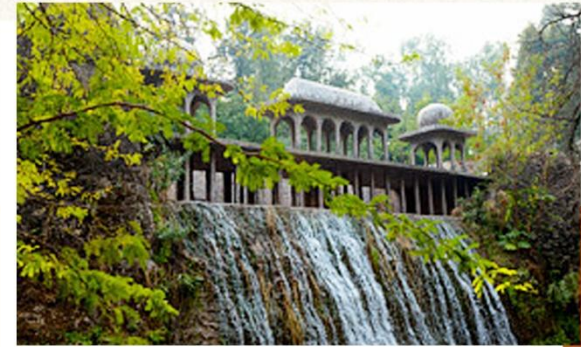
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Key Industries

- The resources, policy incentives, infrastructure and climate in the state support investments in sectors such as automotives, chemicals, agro-based industries, food products, light engineering goods, metal and alloy products, sports goods, textiles, pharmaceuticals, paper and paper products.
- Punjab State Industrial Development Corporation Ltd (PSIDC) and Punjab Small Industry and Export Corporation (PSIEC) are responsible for the development of industrial infrastructure in the state. Punjab Agro Industries Corporation (PAIC) is responsible for development of agro-based units.
- The State Government has set up the “Udyog Sahayak” as state-level nodal agency and District Industry Centres (DIC) as the district-level committee for single-window clearance of industrial projects.
- The Government of Punjab is promoting the development of several Special Economic Zones (SEZs) across Punjab for pharmaceuticals, textiles, electronic hardware and IT/ITeS.

Key Industries in Punjab

- Tractors and Auto Components
- Agro-based Industries
- Bicycles and Bicycle Parts
- Chemical Products
- Food Products
- Light Engineering Goods
- Metal and Alloy Products
- Pharmaceuticals
- Paper and Paper Products
- Sports Goods
- Textiles
- IT and Electronics

Key Industries – IT and Electronics ... (1/2)

- Punjab's IT policy and the incentives offered to the IT industry are aimed at promoting Punjab as an attractive destination for the industry. Mohali has been developed as an IT and ITeS hub in the state.
- In 2010-11, software exports (made by registered units through STPI) from the state were around US\$ 96.2 million.
- Punjab Infotech is the nodal agency for promotion and development of electronics, telecommunication and information technology industry within the state.
- The state has launched a venture capital fund, with a corpus of nearly US\$ 4.3 million, for the IT industry; it is funded jointly by Punjab State Industrial Development Corporation (PSIDC), Punjab Infotech, Punjab Financial Corporation (PFC) and the Small Industries Development Bank of India (SIDBI).
- The Electronic Test and Development Centre at Mohali provides testing facilities to electronics industries.
- Electronics Township of Punjab (ELTOP) is situated on a 290-acre site in Mohali. This township is one of the fastest emerging centers for electronic production in India.

Some of the Key Players

- Infosys Ltd
- JCT Electronics Ltd
- Punjab Communications Ltd
- APLAB Ltd

Key Industries – IT and Electronics ... (2/2)

Infosys Ltd



→ Infosys, which recorded revenues of US\$ 6.99 billion in 2011-12, has thirty-two development centres across the country, with the one at Mohali set up in 2001. The Mohali centre is equipped with latest technologies and solutions for enterprise networking, office productivity, collaborative software engineering and distributed project management.

JCT Electronics Ltd (JCTEL)



→ JCT Electronics is a flagship company of the Thapar Group, one of India's large industrial conglomerates. JCTEL manufactures colour picture tubes for television sets and has a production capacity of around 5.2 million, annually. The company's plants are located at Vadodara in Gujarat and Mohali in Punjab. It recorded revenues of around US\$ 45.22 million in 2011-12.

Punjab Communications Ltd



→ Puncom is India's premier telecom and IT equipment and solution provider. The company recorded revenues of around US\$ 4.82 million in 2011-12. Broadly, the company's activities cover areas such as telecom equipment manufacturing, IT and software solutions, turnkey projects, and repair and maintenance. It has manufacturing facility in Mohali near Chandigarh.

APLAB Ltd



→ APLAB Ltd is a public enterprise incorporated in 1962 to provide solutions to business sectors such as telecommunication, IT, retail banking, retail fuel-dispensing, and power control and conditioning. Its electronic products have markets, globally. The company has four independent product divisions – test and measurement equipment, power conversion and Uninterrupted Power Systems (UPS), self-service terminals for banking and self-service terminals for petroleum sectors. In Punjab, the company has presence in Chandigarh, Ludhiana, Amritsar and Jalandhar. The company recorded revenues of US\$ 20.26 million in 2011-12.

Key Industries – Agro-based Industry

... (1/2)

- Agriculture sector contributed around 27.0 per cent to the state's GSDP in 2011-12.
- The State Government has actively promoted contract farming. Some of the notable contract farming agreements include those with the Tata Group for basmati rice, the UB Group for malting barley and Advanta India for hyola (hybrid rapeseeds and mustard). Crops being promoted include maize, hybrid basmati and sunflower.
- Organic farming is also a thrust area with initiatives from the Punjab Agriculture Export Corporation (PAGREXCO). Several incentives are offered for promoting organic farming in the state, including free-of-cost consultancy and a 100 per cent subsidy on certification of produce by internationally accredited agencies.

- Since the 1980s, Punjab Agro Industries Corporation (PAIC) has been encouraging private investment in the agro-processing sector by identifying technically feasible and economically viable projects and inviting financial collaborations for implementation in the joint sector.

Some of the Key Players

- Nestle India
- MILKFED
- Jagjit Industries Ltd
- Markfed

Key Industries – Agro-based Industry

... (2/2)

Nestle India



- Subsidiary of Nestle SA, Switzerland, the company started milk collection in Moga in 1961 and has expanded operations to a network of more than 85,000 farmers. The company has its processing unit in Moga, Punjab.
- Nestle's famous brands include Nescafé, Maggi, Milkbar, Kit-Kat, Bar One, Milkmaid, Nestea, etc. The company recorded revenues of US\$ 1.56 billion in 2011.

MilkFed



- MILKFED (The Punjab State Cooperative Milk Producers' Federation Ltd) was formed in 1973 with the objectives of providing remunerative prices to milk producers in the state, marketing their produce and providing technical inputs for the enhancement of milk production. It reported a turnover of US\$ 382.92 million in 2010-11, including exports of around US\$ 2.46 million. The company has a strong network of about 6,814 milk producers' cooperative societies at the village-level, 12 milk plants and two cattle feed factories.
- It is well known for the Verka brand of dairy products, including milk, butter, buttermilk, cheese, curd, milk powder, ice cream, ghee, etc.

Jagatjit Industries Ltd (JIL)



- JIL was founded in 1944 in Kapurthala under the patronage of its Maharaja Jagatjit Singh. The company manufactures and markets alcoholic beverages, malt, malt-extract, malted milk foods, milk powder, ghee, glass and pet containers. The company recorded revenues of US\$ 316.9 million in 2011-12.

Markfed



- Markfed began operations in 1954 with 13 members and a share capital of US\$ 6,000. Today, it has grown to become among the largest marketing cooperatives in Asia with an annual business turnover of around US\$ 3.8 billion with nearly 2,710 employees and 20 industrial units.
- Punjab Markfed is a marketing federation of over 3,069 societies. The cooperative has won recognition and many awards from the Government of India in several areas of excellence; Markfed represents the interests of over a million farmers in the state.

Key Industries – Textiles ... (1/2)

- The textile sector in the state is strong on all aspects of the value chain, i.e., from the raw material stage to the finished products (garments) stage.
- The textile sector contributes about 19.0 per cent to the total industrial production in the state.
- Punjab is among the largest producer states of cotton and blended yarn as well as mill-made fabrics in India.
- The district of Ludhiana is often referred to as the 'Manchester of India'.
- The state has four mega textiles parks under implementation:
 - Ludhiana Integrated Textile Park, Ludhiana
 - Lotus Integrated Textile Park, Barnala
 - Punjab Apparel Park, Ludhiana
 - Rhythm Textile & Apparel Park, Nawan Shehar

Some of the Key Players

- Nahar Group
- Vardhman Group
- JCT Limited
- Prince Textile Mills

Source: Annual Plan 2012-13, Government of Punjab

Key Industries – Textiles ... (2/2)

Nahar Group of Companies



- The Nahar Group of companies is also known as the OWM Group. The group's portfolio comprises spinning, knitting, fabrics and hosiery garments. It operates seven firms: Oswal Woollen Mills Ltd, Nahar Spinning Mills Ltd, Nahar Industrial Enterprises Ltd, Nahar Poly Films Ltd, Monte Carlo Fashion Ltd, Cotton County Retail Ltd and Nahar Capital & Financial Services Ltd. Its most of its manufacturing facilities are located at Ludhiana and Mohali.

Vardhman Group



- Vardhman Textiles Limited, formerly Mahavir Spinning Mills Limited, is a large textile producer in India. The company operates in five segments: yarn, sewing thread, steel, fibre and fabric. The yarn segment comprises production of various types of yarns (cotton, manmade fibres and blends thereof) and yarn processing activities. The company's subsidiaries include Vardhman Holding Limited, Vardhman Textiles Limited, VMT Spinning Company Limited, VTL Investments Limited, Vardhman Acrylics Limited, Vardhman Yarn & Threads Limited, Vardhman Nisshinbo Garments Company Limited and Vardhman Special Steels Limited. The company has its corporate office at Ludhiana, yarn manufacturing units at Ludhiana, Hoshiarpur and Malerkotla, and dyeing units at Ludhiana and Hoshiarpur. The company recorded revenues of US\$ 968.0 million in 2011-12.

JCT Ltd



- JCT Limited, one of the leading manufacturers of textiles and filament yarn, is the flagship company of Thapar Group. It has operations in two distinct businesses: cotton, synthetic and blended textiles, and nylon filament yarn. The company witnessed revenues of US\$ 173 million in 2011-12.
- JCT Limited has a product range of materials including 100 per cent cotton, 100 per cent polyester, 100 per cent nylon as well as various blends like cotton-polyester, cotton-nylon and polyester-viscose, single and plied yarns (both with counts ranging from 6s to 100s) as well as cotton-lycra and Dupont USA approved (polyester-cotton) lycra stretch material. The company has an integrated textile facility at Phagwara, Punjab.

Prince Textile Mills



- Prince Textile Mills, based in Ludhiana, was established in 1990 for high quality "Pashmina" products. The company offers wide variety of hand woven shawls, scarves running lengths.
- The company has its manufacturing facility at Ludhiana, Punjab.

Key Industries – Light Engineering Goods ... (1/2)

- The light engineering goods industry in Punjab includes bicycle and bicycle parts, hand tools, sewing machines and machine tools.
- The industry accounts for around 21.0 per cent share of the manufacturing output and more than 25.0 per cent share of the industrial employment in the state.
- The state accounts for around 15.0 per cent of bicycle production and 80.0 per cent of bicycle parts production in India. The industry is primarily located in Ludhiana.
- Hand tools such as wrenches, hand drills, pullers, vices, hammers, screw drivers, pliers, spanners, etc., are manufactured mainly in Ludhiana and Jalandhar. Sewing machines and their parts are mostly manufactured in Jalandhar.
- The machine tools industry comprising lathes, shapers, milling machines, drilling machines and special purpose machines for different industries is, mainly, concentrated in Batala and Ludhiana.

Key Players

- Hero Cycles
- Avon Cycles
- Accurate (India)

Key Industries – Light Engineering Goods ... (2/2)

Hero Cycles



- A part of the Hero Group and amongst the world's largest producers of bicycles, the company manufactures around 6.7 million cycles per annum. The company started exports in 1963 to Africa and the Middle East. Today, more than 50.0 per cent of its bicycle exports are to Europe and the US. It has tied-up with National Bicycle Industries, a part of the Matsushita Group, Japan, to manufacture high-end bicycles. It has a manufacturing unit in Ludhiana.

Avon Cycles



- Avon Cycles is another leading bicycle manufacturer in the country. It has invested significantly in backward integration and has facilities for making almost all parts, including steel balls, that are needed for bicycles. It produces about two million bicycles per annum and exports to more than 80 countries. It has manufacturing units in Ludhiana. The company is recognised by the Government of India as a 'Golden Trading House'. It is engaged in the development of a range of electrically-powered bikes.

Accurate (India)



- Accurate (India) is a manufacturer and exporter of oil mill machinery, spares and scaffolding fittings. The company has its office at Simlapuri in Ludhiana.

Key Industries – Automotive and Auto Components Industry ... (1/2)

- The automotive industry in Punjab is dominated by farm and light commercial vehicle manufacturers, such as International Tractors, Punjab Tractors and Swaraj Mazda.
- The auto component industry in Punjab predominantly comprises SSI units.
- The auto components produced range from simple items such as nuts and bolts to complex ones such as shafts, radiators and axles.
- Manufacturing units cater to both original equipment manufacturers and replacement markets; some also export to offshore destinations.
- The state is also strong in tractor production.
- A majority of the auto parts manufacturers are concentrated in Ludhiana, Jalandhar, Hoshiarpur and Phagwara.

Some of the Key Players

- International Tractors Ltd
- Swaraj Engines Ltd
- SML ISUZU Ltd
- Pabla Bearings Ltd

Key Industries – Automotive and Auto Components Industry ... (2/2)

International Tractors Ltd



→ International Tractors is among the top three tractor manufacturers in India; the company has a facility at Hoshiarpur. It sells tractors under the brand name 'Sonalika'. It exports to several countries including South Africa, Australia, Zimbabwe, Sri Lanka, Canada, Bangladesh, Algeria, Zambia, Senegal, Ghana, etc. It has a strategic alliance with YANMAR, Japan, for manufacturing tractors in India and a marketing arrangement with Tata International for exports to select South American and African markets.

SML ISUZU Ltd



→ SML ISUZU Limited, formerly known as Swaraj Mazda, based in Nawanshahar, Punjab, is a light commercial vehicle manufacturer. The company manufactures vehicles for goods and passenger applications. In the passenger-carrier category, the company offers non-air conditioned and air-conditioned bus models with capacity ranging from 10 to 41 seats. The company registered revenues of US\$ 217.39 million in 2011-12. The company has sold 13,646 vehicles during 2011-12.

Swaraj Engines Ltd



→ Swaraj Engines Limited (SEL) is a Punjab-based company and manufactures engines for PTL. It manufactures diesel engines, diesel-engine components and spare parts. The company is also a supplier of hi-tech engine components to SML ISUZU Limited. The company's engine business constitutes approximately 95.0 per cent of its product revenue. The remaining 5.0 per cent is contributed by the hi-tech engine components being supplied to SML ISUZU for assembly of commercial vehicle engines. The company recorded revenues of US\$ 96.12 million in 2011-12.

Pabla Bearings Ltd



→ Pabla is a leading manufacturer and exporter of superior quality bearings, agricultural machinery bearings, home appliances bearings, auto bearings, two-wheeler auto bearings, four-wheeler auto bearings, etc. The company is based in Ludhiana, Punjab. The company's major markets consist of India, Indonesia, Sri Lanka, Egypt, Europe, Middle East, Bangladesh, Thailand, Singapore, etc.

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

- Industrial activity in the petrochemicals and fertiliser categories includes refining, petrochemicals, chemicals, fertilisers and other related products and distribution.
- Future growth in this sector is expected with the development of Hindustan Petroleum Corporation Ltd refinery project as well as increasing the production of fertiliser in the state.

Some of the Key Players

- Hindustan Petroleum Corporation Ltd
- National Fertilizers Ltd
- Punjab Chemicals and Crop Protection Ltd
- Punjab Alkalies & Chemicals Ltd

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

Hindustan Petroleum Corp Ltd (HPCL)



- HPCL is a Fortune 500 company. It recorded an annual turnover of US\$ 40.82 billion in 2011-12 and had a market share of about 20.0 per cent.
- HPCL-Mittal Energy Limited (HMEL), a joint venture company of HPCL with Mittal Energy Investments Pte Limited, has set up a state-of-the-art, 9 Million Metric Tonnes Per Annum (MMTPA) refinery at Bathinda in Punjab. Production started in HPCL's Bathinda refinery from January 2012.

National Fertilizer Ltd (NFL)



- NFL is one of the largest producers of nitrogenous fertilisers in the country. It is actively promoting the use of bio-fertilisers in the state and produces neem-coated urea at its facility in Bathinda. The company recorded revenues of US\$ 1.5 billion in 2011-12.

Punjab Chemicals and Crop Protection Ltd



- Punjab Chemicals and Crop Protection Limited is engaged in the business of agrochemicals and manufactures technical grade pesticides, herbicides, fungicides and biocides, as well as their formulations. The company has presence in both domestic and international markets. It has its registered office in Chandigarh and recorded revenues of US\$ 79.25 million in 2010-11.

Punjab Alkalies & Chemicals Ltd



- Punjab Alkalies & Chemicals Limited is engaged in the business of chemicals. The company's three principal products include: caustic soda lye, chlorine and hydrochloric acid. Its plant is located at Naya Nangal in Punjab. The company registered revenues of US\$ 49.26 million in 2011-12.

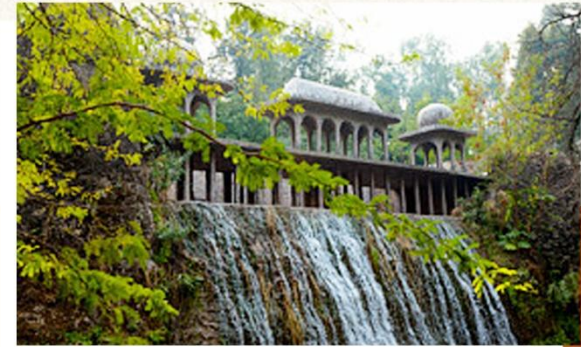
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Three-Tier Single-Window Clearance Mechanism ... (1/2)

- The Single-Window Clearance Mechanism (SWM) has been established under the Punjab Industrial Facilitation Act, 2005, with the following three-tier structure to grant exemption/relaxation from any of the provisions/rules of the act:
- **District Single Window Clearance Committee:** Instituted in each district of the state, the committee is chaired by the Deputy Commissioner and has the senior-most officers of district departments as its members.
- **Empowered Committee:** This committee is chaired by the Chief Secretary to the Government of Punjab and has the principal secretaries of state departments as its members.
- **State Board:** The board has the Chief Minister of Punjab as its chairman and ministers of state departments as its members.

SWM Structure in Punjab

Body	Chaired by
State Board	Chief Minister of Punjab
Empowered Committee	Chief Secretary
District Single Window Clearance Committee	Deputy Commissioner

Three-Tier Single-Window Clearance Mechanism ... (2/2)

Level	Nodal Agency	Composition
State-level	Udyog Sahayak	Officers from the Punjab State Electricity Board (PSEB), Punjab Pollution Control Board (PPCB), Punjab Infotech, PSIDC, PFC, PSIEC, Department of Labour, PAIC and Directorate of Industries. The agency handles the composite application form received from entrepreneurs and assists in obtaining clearances from various departments within the stipulated time period. It also provides guidance and information to investors about policies and programmes; it is monitored by an empowered committee.
District-level	DIC	The DIC is headed by the General Manager at the district level and includes the environmental engineer of the PPCB, the superintending engineer/executive engineer of PSEB, the district officer of the Housing and Urban Development Authority and the assistant director of factories from the Directorate of Factories. The DIC provides sanctions and clearances for setting up SSI units in the state.

PSIDC: Punjab State Industrial Development Corporation Ltd, PFC: Punjab Financial Corporation, PSIEC: Punjab Small Industries & Export Corporation Limited, PAIC: Punjab Agro Industries Corporation Limited

Key Investment Promotion Offices

Agency	Description
Punjab Small Industry and Export Corporation Limited (PSIEC)	<ul style="list-style-type: none"> • Focuses on the development of SSI units and promotion of exports. • Responsible for setting up industrial focal points.
Punjab Finance Corporation (PFC)	<ul style="list-style-type: none"> • Provides medium and long term loans for new industrial units, expansion of existing units and revival of sick units in the state (loan limits set by the State Financial Corporation Act, 1951).
Punjab Agro Industries Corporation (PAIC)	<ul style="list-style-type: none"> • Acts as the promoter for agro - based industries in Punjab and provides inputs such as fertilisers, machinery, seeds and pesticides to farmers. • Assists investors in obtaining all necessary approvals for new projects and facilitates contract farming.
Punjab State Industrial Development Corporation Limited (PSIDC)	<ul style="list-style-type: none"> • Promotes large and medium scale projects in the state. • Provides escort services, especially, for industrial ventures, and has been instrumental in facilitating projects of Godrej-GE (white goods), Century Textiles (pulp and paper), Gujarat Ambuja (cement), ICI (paints) and HPCL-Saudi Aramco (mega project for gas). • Also acts as an infrastructure developer and financial facilitator.

Contact List

Agency	Contact Information
Punjab Small Industry and Export Corporation Limited (PSIEC)	Udyog Bhawan 18, Himalaya Marg, Sector-17/A Chandigarh-160017 Phone: 91-172-2704756, 2704865 Fax: 91-172-2702039 E-mail: psiec_chd@yahoo.co.in
Punjab State Industrial Development Corporation Limited (PSIDC)	Udyog Bhawan 18, Himalaya Marg, Sector-17 Chandigarh-160 017 Phone: 91-172-2702 881-84, 2702 791 Fax: 91-172-2704 145 E-mail: psidc@rediffmail.com , psidcltd@yahoo.co.in

Key Approvals Required

Service or Facility	Agency	Timelines
Industrial License Sponsorship for Raw Materials and Inputs Land Allotment	Department of Industries	2 weeks 4 weeks 4 weeks
Incentives	Udyog Sahayak	Sales Tax Exemption: 1 week Investment Incentive: 4 weeks Other Incentives: 2 weeks
Sanction of Loan	PFC/PSIDC	8 weeks
Release of Power Connection	PSEB	Load up to 20 kW: 8 weeks Load from 21-100 kW: 12 weeks Load from 101-500 kW: 12 weeks Load above 500 kW: 90 days
Site Approval/Environmental Clearance Adequacy Certificate No-Objection Certificate	Department of Environment, Pollution Control Board	60 days 30 days Green Category: 15 days Red Category: 30 days

Cost of Doing Business in Punjab

Cost Parameter	Cost Estimate
Industrial Land (per sq ft)	US\$ 15 to US\$ 115
Office Space Rent (per sq ft per month)	US 50 cents to US\$ 2.3
Power Cost (per kWh)	Industrial: US 9.3 cents to US 10.4 cents
Labour Cost (minimum wages per day)	Agriculture: US\$ 3.2 Non-agriculture: Unskilled: US\$ 3.1 Semi-skilled: US\$ 3.2 to US\$ 3.4 Skilled: US\$ 3.4 to US\$ 3.7 Highly-skilled: US\$ 3.9 to US\$ 4.1
Water	Commercial and Industrial: US 15.7 cents per 1,000 litres

Source: Ministry of Labour and Employment, Government of India, Punjab State Electricity Regulatory Commission, Industry Sources

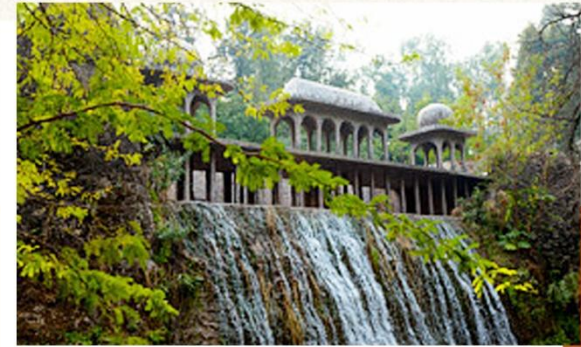
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State Acts & Policies ... (1/3)

New and Renewable Sources of Energy (NRSE) Policy 2012

Objective

- To maximise and improve the share of new and renewable sources of energy to 10 per cent of the total installed power capacity in the state by 2022.

[Read more](#)

Industrial Policy 2009

Objective

- To establish synergy between the agriculture and industrial sectors, rejuvenate small scale sector and attract more investments in the large scale sector.

[Read more](#)

Agro Industrial Policy 2009

Objective

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

[Read more](#)

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

IT/Knowledge Industry Policy 2009

Objective

- To create an enabling environment for IT and knowledge-based industry by focusing on creation of necessary infrastructure, development of human capital, proactive engagement with investors and effective policy implementation.

[Read more](#)

Special Economic Zone (SEZ) Act 2009

Objectives

- To promote SEZs in the state, providing unique incentives to infrastructure developers.
- To promote and set up self-contained large industrial townships.

[Read more](#)

Land Allotment Policy 2008

Objective

- To accelerate the pace of growth of industry in the state and provide quick availability of land to the entrepreneurs.

[Read more](#)

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

Notification Textile Policy 2006

Objective

- To facilitate and promote the growth of the textile industry, achieve global standards in product quality, contribute more to exports and encourage textile clusters.

[Read more](#)

Tourism Policy 2003

Objective

- To promote tourism and develop hospitality infrastructure with private sector participation. Tourism was declared an industry in Punjab in 1996.

[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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