

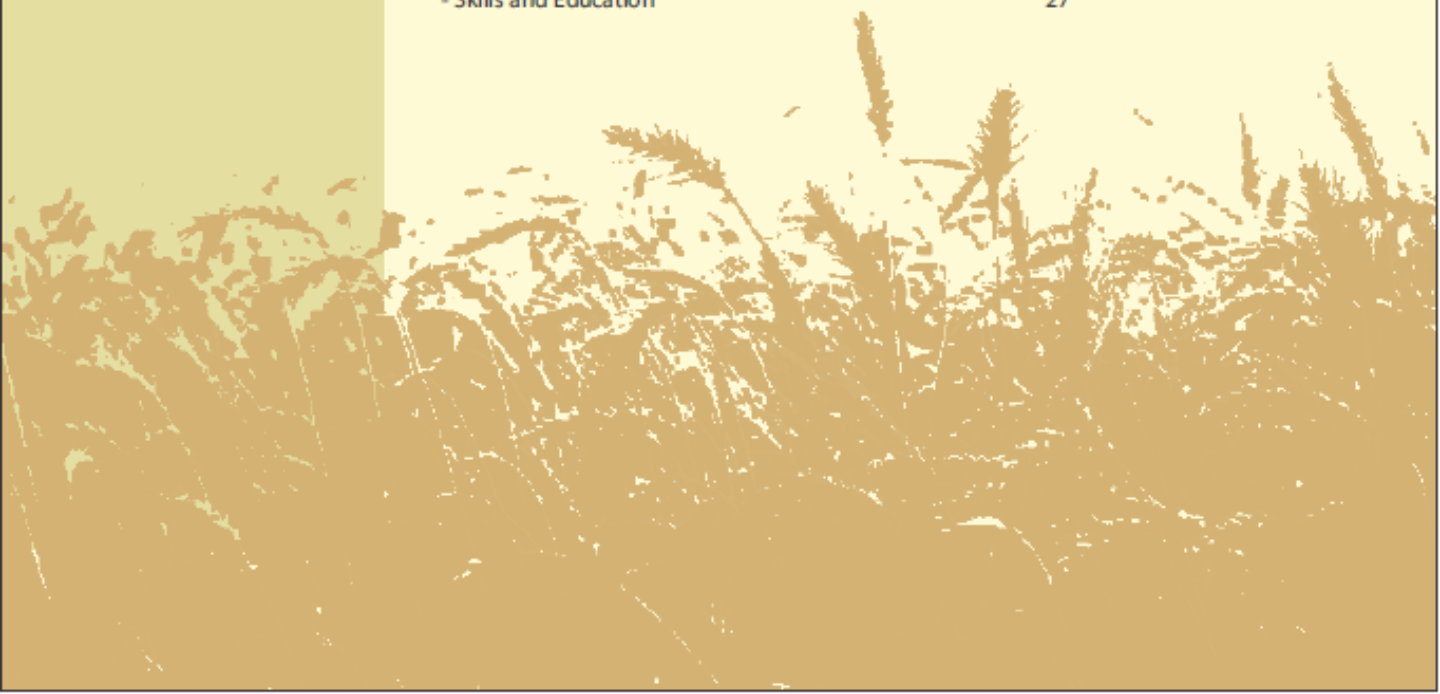
PROGRESSIVE
PUNJAB

OPPORTUNITIES UNLIMITED



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Sardar Prakash Singh Badal
Chief Minister, Punjab

Message from Chief Minister

Punjab is a land known for its enterprise and endeavor. Apart from an ideal place to work and live in thanks to its people, the State offers many advantages to investors such as excellent infrastructure, highly skilled human capital and access to large domestic and international markets.

We envision ourselves as a progressive state that keeps pace with the ever changing world by leveraging its core strengths and focusing on developing skills, creating jobs and increasing productivity. We are moving ahead in a direction to become the most preferred investment destination in India through effective governance, able administration, investor friendly policies and superior infrastructure.

The enterprising spirit of Punjab is the key advantage providing entrepreneurs a platform to grow and prosper. It gives me immense pleasure to share that the Reserve Bank of India has listed Punjab as one of the top three destinations in India for new investments. The Government of Punjab is extremely keen to extend this partnership with the industry and has taken many proactive steps to further attract investments in the state.

We look forward to partner with you in to become the most preferred investment destination in India.

Prakash Singh Badal

Chief Minister, Punjab



Sardar Sukhbir Singh Badal
Deputy Chief Minister, Punjab

Message from Deputy Chief Minister

The industrious nature of people of Punjab, progressive and transparent policies of the government, continuous investment in human capital development initiatives, fast – track infrastructure development and good governance have put Punjab on the fast trajectory of growth in the last six years.

With focus on inclusive growth and all-encompassing socio-economic development for every individual of the state, we have resolved to make Punjab a 'number one' destination for investors and individuals seeking peace, harmony, growth and prosperity.

"Progressive Punjab" is our sincere effort to provide a platform, where you can explore the unlimited business opportunities the state has to offer and interact with the key policy makers and business luminaries from India and across the world.

We on our part have resolved to make Punjab the easiest place to do business. Taking this as our mandate we have decided to guide investors on the nature of investment options and also hand-hold them throughout the process by providing them required support at every stage.

I invite you to be part of "Progressive Punjab" and write a new chapter of success for your enterprise. I assure you that you will find in the Punjab government an earnest mentor who will assist you so to achieve the scalability and sustainability that will benefit you, the citizens and the economy of Punjab.

Sukhbir Singh Badal

Dy. Chief Minister, Punjab



M.M. Mittal
Industries & Commerce minister

Message from Industries & Commerce Minister

Punjab is one of the most progressive States of India. It is not only the leader in agriculture, but also it has taken rapid strides in manufacturing, technology, services and skills. The Government of Punjab is keen to accelerate industrial and economic growth in the State by leveraging on its key strengths in agriculture, light engineering, and its highly skilled and educated workforce.

The Government has identified Agro and Food processing, Textiles, Light Engineering, IT and IT-enabled Services as the focus areas for growth. We realize the importance of infrastructure and skill development for industrial growth and have invested positively in development. Going forward, the Government has also identified Bio-science and Health as important growth areas.

The State Government has announced a package of landmark incentives to attract important investments in the State. It has also taken important steps to ease and simplify the process of regulatory compliance to facilitate investments.

We are committed to facilitate industry and providing an attractive investment environment in the State. I invite all and sundry to participate in the "Progressive Punjab Investors Summit" to be held on 9th-10th December, 2013 at Sports Complex, Mohali.

M.M. Mittal
Industries & Commerce Minister, Punjab

Industry speak



Vivek Bharati,
Executive Director,
PepsiCo India Region

"PepsiCo has a special affinity for Punjab, because it is here that our journey began in 1989 when we made our first investment in India. Since then our engagement with Punjab has expanded considerably. Apart from our substantial investments in two food manufacturing facilities and the state-of-art potato seeds R&D laboratory, what we truly value is our strong partnership with thousands of farmers in Punjab. Our continuous expansion in the state has been made possible by the encouragement and unflinching support we have received from all levels of the Punjab government over the years. We are delighted that the government of Punjab is now bringing out a new and more progressive industrial policy, and we look forward to leveraging it to increase our contribution to Punjab's growth and development."



Padam Shree Rajinder Gupta
Chairman, Trident Group

"Trident's success started from a small town of Punjab and today it is one of the largest Global Home Textile Companies. We have grown with more than 30% CAGR in last two decades. The highest productivity, harmonious working environment and best infrastructure have given impetus to our growth in this part of the world. We owe everything to the State of Punjab."



S K Roongta
Chairman-Talwandi Sabo Power
Limited & Head Aluminium
& Power Business Group, Vedanta Group

"At TSPL, we are not only setting up project of such big magnitude, but partnering the state towards self-sufficiency in power. We are happy to get excellent support at the ground level in terms of infrastructure and people. Punjab Government and Administration have been proactive in ensuring smooth process."



S. P. Oswal,
Chairman,
Vardhman Group

"Several groups from Punjab who started their operations in a modest way during 1950's-1960's having scaled heights to achieve recognition in their respective fields itself bears testimony of the conducive investment climate that has always prevailed in the state. Hero, Airtel, Vardhman, Nahar, Trident are some of those many who play vital role in Industries not only nationally but worldwide. The overwhelming advantage of Punjab has been the attitude of its people to "Productivity" and this permeates in all areas of economic activity"



Fred Ebrahimi
Chairman, Quark (USA)

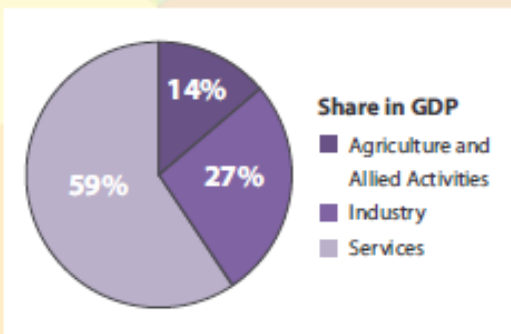
"Since the new opportunities are emerging in the market and traditional IT destinations such as Hyderabad and Bengaluru are not able to cop up with the growing infrastructure need of new age businesses, Mohali by virtue of its strategic location provides an excellent destination for Software business and IT Service Providers. Infrastructure in Chandigarh and Mohali is much superior to many other cities of India."

India

- One of the fastest-growing economies in the world
- The ninth-largest economy in the world by nominal GDP and the third-largest by purchasing power parity
- The World Investment Report 2013 ranks India as the third most attractive destination for foreign investment
- FDI norms have been further liberalized in 2012 in sectors like civil aviation, power exchanges and retail



Country Snapshot	
Exports (2012-13)*	US\$297 billion
Imports (2012-13)*	US\$485 billion
FDI (2012-13)	US\$26 billion
Real GDP Growth Rate (2012)	6.5%
Literacy Rate	74%



* Exchange Rate: US\$1 = INR55

Advantage India

- **Demographic dividend:**
A large skilled youth population
- **An investor friendly climate**
- **Growing middle class with an increasing propensity to spend**
- **A flourishing base for research and development activities**
- **Upgraded capacity in infrastructure, industrial base and intellectual capital**
- **A large producer of key raw materials**

- World leader in the production of milk, pulses, jute and jute-like fibers
- Second-largest producer of rice, wheat, sugarcane, groundnut, vegetables, fruits and cotton
- India's agricultural exports are expected to cross the US\$22 billion mark by 2014 and account for 5% of the world's agriculture exports
- A leading destination for IT and ITeS; the total IT exports' market share grew to 58% in 2011 from 55% in 2010
- The share of India's IT industry (including hardware) in the global market stands at 7%
- The textile sector contributes about 14% to industrial production, 4% to the GDP and 11% to the country's export earnings
- A leading exporter of light engineering goods
- A leading exporter of pharmaceutical products and a medical tourism destination

Progressive Punjab



- Known as the 'Food Bowl of India'
- Second-largest producer of cotton and blended yarn in India
- Highest road density of 133 km per 100 sq km in India
- Fourth-highest teledensity in India (103%) and the second-highest rural teledensity in the country
- Among the highest per capita electricity consumption in India
- Leading producer of bicycles and bicycle parts
- An attractive IT destination offering well established and all encompassing ecosystem and infrastructure

- Third-most attractive destination for new investments in India in 2012–13 (Reserve Bank of India)
- Won the **Agriculture Policy Leadership Award, 2013**
- Won the **IBN Diamond States Award, 2012**, for the 'Best Big State' in the 'Core Infrastructure' category
- Adjudged as the best state in Transition Economies in the 'State Competitiveness Awards', 2012, by **Mint**
- First rank in Investment Environment & Infrastructure by **India Today, 2010**
- Adjudged the 'Best State' for four consecutive years (2007–2010) by **India Today**
- Ludhiana adjudged the best destination for doing business in India, **World Bank, 2009**

Punjab envisions itself as a progressive state that keeps pace with the world by

- Leveraging its core strengths
 - Focusing on developing skills, creating jobs and increasing productivity
- We aim at developing a superior industry and service based economy through
- Adding value to our core sectors — viz agriculture, manufacturing and textiles
 - Focusing on IT, biosciences, electronics and hardware as target areas to propel growth

Advantage Punjab

Enabling infrastructure

Punjab has one of the best rail, road and transportation networks.

- It is well connected with the rest of the country through rail, road and air.
- At 133 km/100 sqkm, the state's road density is higher than the country average.
- There are five major airports (operational and upcoming) in the state.
 - With annual power generation capacity of 11,484 MW, Punjab will have surplus capacity by 2014.
 - Ludhiana, Jalandhar, Amritsar, Dera Bassi and Bathinda have dry ports (container freight stations/inland container depots) that facilitate imports and exports.
 - The state has the fourth-highest teledensity of 103% in India and the second-highest rural teledensity in India
- The state has several financial institutions and high level of urbanization.

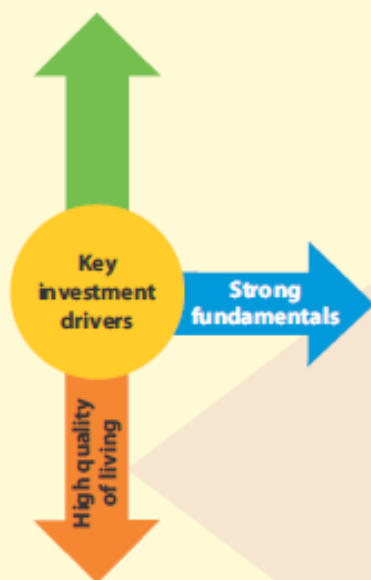


Government support

- The state has an industry friendly government and an environment conducive to business growth.
- The New Industrial Policy 2013 provides incentives to investors through exemption from/retention of VAT/CST, stamp duty and property tax.
- There are simplified processes and approval systems to obtain government clearances.



Conducive business environment



Quality of life

- High quality social infrastructure and abundant green spaces make Punjab a great place to live in.
- Quality of life in Chandigarh is comparable to that in some of the leading global cities.
- The state has a low crime rate and high social stability.

Lower cost of living

- The state provides excellent social infrastructure at competitive prices.

Cost advantage

- Punjab offers a cost advantage compared to cities such as Mumbai, Bangalore, Chennai, Delhi (NCR) and Pune, where companies are experiencing rising costs due to high wage inflation and operation costs.

Large market

- In 2012, Punjab recorded 21% higher income per capita than the Indian average.
- The state has a large propensity to consume.
- It serves as a gateway to Pakistan and other neighboring countries.
- It enjoys the advantage of being near to large markets in Delhi, Haryana, Uttar Pradesh and other neighboring states.

Ecosystem

- It is the largest producer of several key food crops.
- The state enjoys a strong presence in textiles and light engineering.


Rich and abundant talents supply

- The people of Punjab are enterprising.
- Punjab has a literacy rate of 77%.
- There are 13 universities, 105 engineering colleges and 150 polytechnics in the state.
- There are more than 16,000 graduates and over 12,000 engineers and 8,000 diploma-holders.
- There is a cluster of reputed educational and research institutes around Mohali such as the Indian School of Business, Indian Institute of Technology, Indian Institute of Science Education & Research, Institute of Nano Science and Technology, NIPER, PGIMER, NAB and CSIO.
- The state enjoys excellent industry-labor relations.


Punjab – preferred destination

The Government of Punjab is keen to accelerate industrial and economic growth and, therefore, has taken landmark initiatives to make the state more attractive for the industry.


Fiscal incentives for industrial promotion, 2013

- 
- The Government of Punjab has introduced a package to incentivize the setting up of new units in the state.
 - This package provides benefits on VAT, CST, stamp duty, electricity duty and property tax. The State has taken a landmark step by permitting retention of VAT and CST by industries rather than just providing an exemption on these.
 - The package also provides exemptions from regulatory checks to certain industries.

Efficient processes and the ease of regulatory compliance

- 
- The Government of Punjab is simplifying the processes for setting up industries in the state.
 - This will be done by allowing industries to seek, track and obtain government clearances online, thereby, reducing manual intervention.
 - The simplified process would ensure speedy and time-bound approval of applications.

Improved infrastructure

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- The Government of Punjab has taken significant steps to further strengthen the state infrastructure.
 - Punjab is expected to become a power surplus state by 2014 with the commissioning of three new power plants. The state possesses a robust transmission and sub-transmission system.
 - The state has undertaken major development projects for roads and enjoys a high density of roads at 133 km per 100 sqkm.
 - Upgradation of airports in Punjab would improve its connectivity within India and to major countries.

Punjab offers the best possible incentives, infrastructure and efficient processes thus creating a conducive environment for investments.

Focus sectors

- **Agro and Food Processing**
- **Textiles**
- **IT and IT enabled Services**
- **Light Engineering**



Agro and Food Processing

Punjab has very fertile land & agriculture is the mainstay of the state's economy. Agriculture has been the main contributor in state's GDP in the past. Wheat, paddy, maize and sugarcane are major crops. Cotton is the major cash crop. The state also has a large area under fruit and vegetable cultivation. Potato and citrus (Kinnow) are major horticultural crops. The state's farm sector is highly mechanized and the irrigation network is available to 98% of the cultivable land.

The abundant production of food grains, fruits and vegetables presents a range of business opportunities for entrepreneurs to invest in Punjab. It also offers ample scope in agri-waste utilization. The state also presents a host of

opportunities in the livestock sector viz. poultry, dairy, fishery, piggery, goatery etc. The state seeks investments for further strengthening the skill and human resource development in the agro/food processing sector.

There is a huge potential to set up institutes that are into production of health molecules such as carotene, lycopene, anthocyanins, pectins, gums, special fatty acids and proteins. The state is offering a new package of fiscal incentives for promotion of industries in this sector. The government has taken a proactive approach to realign the legal and regulatory framework for promotion of agro/food processing industry.



Agriculture Sector highlights for Punjab

Area (geographical)	50 lakh ha (1.5% of country's area)
Netsown area	42 lakh ha (84% of state's area)
Irrigated area :	41 lakh ha (98% of netsown area)
Total cropped area	79 lakh ha
Cropping intensity	204%
Share in wheat production of India	18-20% (over 15.5 Million Tonnes)
Share in rice production of India	11% (over 10.83 Million Tonnes)
Share in milk production of India	9% (over 9.4 Million Tonnes)
Share in cotton production of India	10% (over 1.7 Million Bales)
Share in kinnow production of India	75% (over 0.95 Million Tonnes)
Share in mushroom production of India	45% (over 70,000 Tonnes)
Share in honey production of India	26% (over 14,000 Tonnes)

Agro and Food Processing Partners in progress



- Nestlé started milk collection in 1961 and has expanded operations to a network of more than 85,000 farmers.
- The company has its processing unit in Moga, Punjab.



- In October 1958, GlaxoSmithKline set up Hindustan Milkfood Manufacturers Pvt. Ltd, promoted by Horlicks Ltd, at Nabha in Punjab.
- This was the company's first plant to manufacture Horlicks in India.



- PepsiCo Foods commenced its Indian operations and re-entered India through a plant in Channo (Sangrur), Punjab.
- PepsiCo has forayed into contract farming in Punjab by opening an R&D center to develop quality seeds and evolve other related technologies.



Bakery products & liquid condiments



Milk & milk products



Basmati



Oils



Button mushrooms



Frozen chicken & meat products



Rice bran oil



Frozen vegetables



Basmati



Malt & brewery



Basmati Rice



Food products

Textiles

Punjab is one of the leading producers of cotton yarn and textiles. The textile industry accounts for 19% of the total industrial production in the state and contributes about 38% of the total exports from Punjab. Further, Punjab accounts for 14% of the total cotton yarn production in India. Recently, the sector has seen significant investments by leading companies such as Trident, Nahar, Vardhman and SEL. Punjab has been one of the leading exporters of yarn, hosiery and ready-made garments.

Textile Sector highlights for Punjab (2011 – 12)

Production of yarn	655 mn kg
Production of cloth	150 mn sqm
Export of hosiery and readymade garments	Rs. 3,143 cr (US\$ 628 mn)
Export of yarn and textiles	INR 6,520 cr (US\$ 1,300 mn)

The textile industry has also helped in the empowerment of women, enabling progressive development in the state. The government has taken pro-active measures for the empowerment of women, such as allowing women to work in textile units during the night shifts.

Punjab has a large base of textile professionals due to the presence of leading design institutes such as the Northern India Institute of Fashion Technology (NIIFT), Mohali.

The Textile Industry Investment Regions as well as Integrated Textile Parks are present across the state. These parks provide industrial plots with necessary infrastructure and mandatory clearances for quick commissioning of textile units.



Textile Parks

Name	Location	Proposed area (acres)	Estimated investment (Rs Crores)	Expected employment	Key activities
Ludhiana Integrated Textile Park	Ludhiana	60	1,500	20,000	Circular Knitting, Flat Knitting- Manual and Computerized Garmenting
Rhythm Textile & Apparel Park	Nawanshahr	20	135	20,000	Garmenting, Knitting and Labelling
Lotus Integrated Textile park	Barnala	100	110	5,000	Production of Towels, Melange Yarn, Bath robes and Training center
Punjab Apparel Park	Ludhiana	85	365	25,000	Production of ready made garments

Textiles



- Trident Group made its way into Punjab as an agro-based manufacturer in 1990 and has diversified and expanded manifold into textiles, paper, yarn, chemicals, energy as well as IT.
- The textile plant is spread on about 300 acres of land. Trident is among the top 5 terry towel manufacturing facilities in the world in terms of capacity.
- With businesses spanning across more than 75 countries, currently, Trident Group is an over INR 5,000 cr (~US\$ 900 mn) enterprise with a workforce of more than 10,000. Further, the group provides indirect employment to 20,000 people.
- Recently, the group announced a large investment to set up the world's largest home textiles facility.

Nahar Group of Companies

- Nahar Group established itself in Punjab in 1949 as a small worsted spinner and hosiery manufacturer and since then, it has grown as a leading textile company in Northern India. Its portfolio comprises spinning, knitting, fabrics and hosiery garments.
- The group has a turnover of Rs. 6,000 crores (US\$ ~1.1 bn) with a spindle capacity of 80,000 and denim production capacity of 20 million meters per annum with further plans of expansion.



- Vardhman Group is one of the largest textile producers in India and have their corporate office in Ludhiana.
- The company operates in five segments - yarn, sewing thread, steel, fibre and fabric.
- It is one of the 12 companies in the world with a spindle capacity of more than 1 million.
- In 2012-13, the company recorded revenues of INR 5,500 crores (US\$ ~1 bn).



- SEL is a leading vertically integrated textile conglomerate having a turnover of over Rs. 2,300 crore (US\$ ~420 mn). SEL is operating in various textile sub-segments and has facilities ranging from spinning and knitting, processing of yarns and fabric, to the production of value added products viz. terry towels and ready-made garments.
- The group is planning to set up an advanced Greenfield Mega Integrated Textile Park at Muktsar with an investment of about Rs. 1,500 crore (US\$ ~275 mn).
- This project is expected to have capacities of 188,160 spindles in ring spinning, 40 million metres per annum in denim fabric and 8 million pieces of denim garment production per annum.



IT and IT enabled Services

IT and IT enabled services is a key growth sector for Punjab. In the recent past, the sector has seen significant investments by leading companies such as Infosys, Tech Mahindra, Dell, Emerson and Quark.

Punjab has a combination of large skilled talent pool, superior infrastructure, and excellent quality of life. In addition, the state offers a cost advantage relative to other IT hubs in terms of lower cost of living and operations.

The state has developed Mohali and Amritsar as hubs for IT and ITeS companies. The cities offer earmarked areas for the development of IT parks and offices, with Mohali also offering ready 'plug and play' infrastructure.

The state has developed the IT policy focused on providing attractive benefits to new units being set up at Mohali and Amritsar and to further promote investments in the sector. The policy provides a wide range of benefits, ranging from retention of VAT and CST

to the relaxation of labor norms and pollution clearances.

The state is taking pro-active steps to increase investments in the sector and to position Punjab as one of the most preferred and competitive investment destinations in the sector.



Quark City, Mohali



- 1.2 million sqft of plug and play space
- SEZ notified area by Government of India
- Integrated business and residential destination covering space of approximately 50 acres on work-live-learn-play format
- Existing ecosystem attracting investment from knowledge industry and creating employment for more than 7000 people
- High quality and cost efficient telecommunication connectivity

IT City, Mohali



- 1700 acres available for ready development
- Located in the vicinity of international airport and railway station
- Land available for campuses of technology companies, IT/IT enabled Services and BPOs
- Potential for industrial, institutional, commercial and residential development

IT and IT enabled Services



- Dell set up its third India contact center in Mohali in 2005, to provide customer care and technical support to Dell customers in the US. The center has 1363 employees
- Dell is the pioneer for the ITES industry in the region and has contributed significantly to the employment generation, infrastructure development and skill enrichment of the region.



- Emerson is a diversified global manufacturing company that brings technology and engineering together to provide innovative solutions to customers in the industrial, commercial and consumer markets through its process management, industrial automation, network power, climate technologies, and commercial & residential solutions businesses.
- Emerson has more than 9,000 employees at 14 manufacturing locations.
- After Pune, the company set up its second design engineering center in Quark City, Mohali in 2007 and has 394 employees.



Light Engineering

The light engineering sector in Punjab includes bicycles and bicycle parts, hand tools, sewing machines and machine tools. The state has been historically known as a light engineering hub and there is tremendous scope for export and collaboration to help the industry grow further.

Over the past few years, Punjab has witnessed strong growth in this sector with thousands of light engineering companies having set up shop in Ludhiana, Jalandhar, Patiala, Sangrur, Moga, Muktsar, Hoshiarpur, and SAS Nagar (Mohali) districts.



Light engineering clusters

Ludhiana

- Ludhiana bicycle and engineering park
- Sewing machines cluster
- Auto parts cluster
- Builders and hardware cluster
- Machine tool cluster
- Fasteners cluster
- Tractor parts cluster
- Hand tool cluster
- Wire drawing cluster

Mohali

- Mohali Hi-Tech cluster
- Advanced machining cluster

Hoshiarpur

- Tractor parts cluster

Jalandhar

- Valves and cocks cluster
- Malleable galvanized pipe fitting cluster
- Hand tools cluster

Malerkotla and Sangrur

- Agriculture implements & hand tool cluster
- Chillroll manufacturing cluster

Muktsar and Moga

- Agricultural machinery cluster
- Agricultural implements cluster

Phagwara and Kapurthala

- Foundry and general engineering cluster

Towards Engineering Excellence The Light Engineering sector in Punjab



Largest producer of
bicycles in the world

Hero Cycles is a part of the Hero Group and the world's largest producer of bicycles. The company manufactures about 6.7 million cycles per annum. More than 50 percent of its bicycle exports are to Europe and US. It has tied up with National Bicycle Industries, a part of the Matsushita Group of Japan, to manufacture high end bicycles. Its manufacturing unit is in Ludhiana.

Turnover (2010-11)	INR1650 crore (US\$ 300 million)
Capacity	6 million bicycles/year
Established in	1956
Headquarters	Ludhiana, Punjab



One of the largest
manufacturer and Indian
exporter of Bicycles and
Bicycle Parts

Avon is a leading bicycle manufacturer in the country. It has invested significantly in backward integration and has facilities for making almost all parts, including steel balls, required to make bicycles. It produces about 2 million bicycles per annum and exports to more than 80 countries. The company is recognized by the Government of India as a 'Golden Trading House'. Its manufacturing units are located in Ludhiana.

Turnover (2011)	INR 421 crores (US\$ 89 million)
Capacity	2 million bicycles/year
Established in	1951
Headquarters	Ludhiana
Brands	Avon, Apsara, Buke

Other prominent brands in Punjab:



LHAAS

PHILIPS



USHA

SINGER

Accurates (India)
A Name Of Trust



Emerging sectors

- Biosciences and Health



- Health Services
- Pharmaceuticals
- Hospital Services
- Medical & Child
- Clinical Care

Revolutionizing Punjab'S biosciences industry

Punjab's strong agricultural base and superior infrastructure lend impetus for the development of the biotechnology industry in the state. The Government of Punjab has taken significant initiatives to promote biotechnology related research and development activities in the state. The presence of several corporate and government hospitals in Punjab and facilities for healthcare education and research facilitates clinical trials of biotech products. The state has an advanced institutional framework to provide quality manpower for the sector. These institutions include the National Institute of Pharmaceutical Education & Research (NIPER) and Punjab Agricultural University (PAU).

The biotech industry in the state enjoys a strong presence around Mohali and Dera Bassi due to the presence of research institutes, quality educational institutes and pharmaceutical companies in and around these areas.

Pharmaceuticals

- Exports of drugs during 2009-10: INR 813 Cr.
- National Institute of Pharmaceutical Education and Research (NIPER), Mohali is the first national level institute in pharmaceutical sciences. It was set up with the objective of becoming a centre of excellence for advanced studies and research in pharmaceutical sciences.



Healthcare

- The public healthcare infrastructure in the state is three-tiered with hospitals, community health centers, primary health centers and sub-centers constituting the three levels.
- As of March 2011, the average radius served per healthcare institution was 2.7 km.
- Private healthcare services handle about 90 percent non-hospital cases and 67 percent hospital care cases.



Biotech

- **Institute of Microbial Technology (IMTECH), Chandigarh** is one of the 38 national laboratories of the Council of Scientific & Industrial Research (CSIR) engaged in basic and application-oriented research.
- **National Agri-Food Biotechnology Institute (NABI)** of the Department of Biotechnology at Mohali aims at collaborating with knowledge enterprise at the interface of diet, nutrition and health. Industry with strengths in nutritionally improved crops, enhanced function foods and dietary molecules for health can collaborate with NABI.
- **NIPER, Mohali** works in the area of diseases such as tuberculosis, leishmaniasis and malaria, and other lifestyle and age-related diseases. It is also involved in biocatalysis, biotransformations and in the production of biopharmaceuticals.
- **Postgraduate Institute of Medical Education and Research (PGIMER), Chandigarh** is a medical and research institution that provides physical and intellectual milieu for budding scientists working in multiple disciplines of medicine and helps them expand their knowledge base by facilitating research.



Opportunity areas

Proximity to large domestic markets:

- Punjab is close to large domestic markets in Delhi, Haryana, Uttar Pradesh, Himachal Pradesh, Rajasthan, Uttarakhand and Jammu and Kashmir.
- Strong growth in organic farming with 1,086 farmers registering for organic farming of various crops.

Export potential:

- The state has access to global markets through superior road, rail and air networks.
- There is immense potential for large scale export of traditional vaccines such as anti-rabies vaccine, oral polio vaccine, hepatitis B vaccine and Hib across the world.

Investment potential:

- There is huge potential for mega projects (to the tune of INR 2,000 crore) in science and technology, especially biotechnology, nanotechnology and applied sciences.
- Punjab State Council for Science and Technology is facilitating the setting up of a biotech park at Knowledge City, Mohali, to promote the industry in agriculture, food, pharmaceutical, energy and allied sectors.



Enablers

- Infrastructure
- Skills and Education



A leader in quality infrastructure

The Government of Punjab has taken significant measures in upgrading the infrastructure in the state and in facilitating the industry. Though Punjab has one of the best public infrastructures in India, it is currently working toward creating more capacity.

Power

- The state aims to commission three new thermal power stations with a total capacity of 3,920 MW by 2014. This would make Punjab a power surplus state.
- It is a pioneer in developing a state-level 400 KV Ring Main System to improve power quality and its supply.
- The state has invested about INR 4,400 crore in the last three years to strengthen the transmission and distribution systems.
- It is giving priority to renewable energy under the New and Renewable Sources of Energy Policy — 2012.



Airports

- The state has international airports at Chandigarh and Amritsar.
- Upcoming airports at Ludhiana and Bathinda. One at Pathankot has been planned.

Land and industrial parks

- Land available at Mohali for the following proposed development projects:
 - 1500 acres for Education City
 - 1700 acres for IT City
 - 260 acres for Medicity
 - 80 acres for Mohali Downtown
 - 35 acres is available for Ludhiana Downtown. The city has also reserved more land for other upcoming mega projects.
- Plug and play infrastructure for industries available at IT and Textile Parks
- Land also available at industrial focal points in the state- 210 acres at Kapurthala, 70 acres at Goindwal Sahib, 70 acres at Pathankot etc.



Logistics

- Six container freight stations (CFSs) and three inland container depots (ICDs) facilitate import and export of cargo at Ludhiana, Jalandhar, Amritsar, Bhatinda and Dera Bassi.
- Three new ICDs in the State are being developed near Ludhiana and Jalandhar.
- A port-cum-logistics park on the feeder route to the western leg of the Dedicated Freight Corridor (DFC) is being developed in Ludhiana.

A leader in quality infrastructure

Urban Development

- Best in class social infrastructure in the state.
- Significant projects in the areas of commercial complexes, water supply, waste treatment, transportation and environment are underway.
- Large housing projects are being developed in major cities.



Roads

- The state has among the highest road density in India at 133 km per 100sq km.
- Four and six-lane expressways have been proposed to connect major towns of Punjab. For example, Chandigarh and Ludhiana, and Patiala and Bathinda.
- National Highway 1 connects major cities in Punjab such as Amritsar, Ludhiana, Jalandhar and Patiala with Delhi and NCR.



Amritsar – Delhi – Kolkata Industrial Corridor

An Amritsar-Delhi-Kolkata Industrial Corridor has been proposed, which will use the eastern dedicated freight corridor (DFC) as its backbone. The eastern DFC extends from Ludhiana in Punjab to Kolkata and the Amritsar-Delhi-Kolkata industrial corridor will be structured around the eastern DFC.

Opportunities in infrastructure

Urban development

- Attractive projects for immediate development –
- Mohali Downtown: 80 acre area with an estimated investment of Rs. 3,000 cr
- IT City, Mohali: 1,700 acre area for technology companies, IT/IT enabled Services and BPOs
- Medicity, Mohali: 260 acre area for world class hospitals and medical colleges
- Education City, Mohali: 1,500 acre area for development of an integrated knowledge/education city
- Downtown Ludhiana: 35 acre area of prime land for mixed use development
- Urban Transportation: BRTS in Amritsar and Ludhiana (Rs. 1,100 cr)
- Solid waste management projects (Rs. 350 cr) and energy efficient street lighting (Rs. 150 cr) under PPP
- Major projects in pipeline
- Waterfront City, Ludhiana in 1,200 acre area (Rs. 5,000 cr)
- Tourism destination, Ludhiana in 1,100 acre area (Rs. 3,000 cr)
- Convention cum Expo center, Mohali in 50 acre area (Rs. 1,200 cr)
- Engineering, Procurement and Construction (EPC) opportunities - sewerage and sewerage treatment (Rs. 2,000 cr) and water supply (Rs. 400 cr) over the next five years.

Renewable energy

- The state is seeking investments of over Rs. 2,800 cr over the next two years in grid connected solar power (100 MW – Rs. 800 cr), bio mass projects (200 MW – Rs. 1,000 cr), mini hydel plants (85 MW – Rs. 1,000 cr) and rooftop solar photovoltaic power projects on government buildings (100,000 sqm area - Rs. 50 cr).
- The state aims to increase power generation from renewable sources to 2,400 MW by 2022.

Roads

All major towns of Punjab are to be connected with four and six lane expressways.

Eleven projects with an investment of Rs. 2,900 cr are in the pipeline.



Airports

Upcoming airport at Sahnewal (Ludhiana). An integrated industrial park project (aeropolis) between Sanhewal Airport and Chandigarh Road has been planned.

Power distribution and transmission

The state plans to develop 2 x 660 MW coal based thermal power plant near Mukerian with an investment of Rs. 7,300 cr. Consequently, there are immense opportunities in the areas of supplying boilers, turbines and generators (Rs. 4,000 cr) and construction and other machinery (Rs. 3,300 cr).

Other opportunities include the setting up of forty 66 KV Grid Substations on turnkey basis in the next five years at an investment of Rs. 100 cr.

Opportunities in annual supply of transformers, conductors, cables etc of Rs. 500 cr.



Logistics and warehouses

There is a potential to develop a dry port with a logistics park in Amritsar (100,000 TEUs per annum with investment of Rs. 500 cr) and in Jalandhar (60,000 TEUs per annum with an investment of Rs. 300 cr).

Development of 8 silos under DBFOT with a capacity of 400,000 MT with an investment of Rs. 300 cr.

Ready pool of skilled talent

Punjab has always accorded high priority to imparting education and skills to its people, as it believes manpower is a key driver of attracting investment and fostering all-round development.

Punjab is home to some of India's premier institutes such as the Indian Institute of Technology, Indian School, Punjab Technical University, National Institute of Technology, Thapar University, Chitkara and Lovely University. Moreover, the state has been emphasizing on technical education and industrial and vocational to create a work-ready pool of professionals for industry.

Punjab stands 3rd in India with respect to Education Development Index (EDI)

Leveraging technically skilled talent

Punjab has taken proactive steps to upskill talent through Industrial Training Institutes, Engineering Colleges, Polytechnics. The current ecosystem in the state has nurtured enough technical talent to meet future requirements.

Institutes	Number	Capacity
Engineering colleges	101	43,784
Polytechnics	181	62,700
Industrial Training Institutes (ITIs)	378	62000+
Vocational Training Providers (VTPs) ¹	282	33,423 (Training provided)

35 Centers of Excellence have been established under the scheme in various sectors of technology where the industry may decide the course of action according to their requirements.

300 Skill Development

Continuous quality upskilling

4 Multi Skill Development Centers to be established in Amritsar, Ludhiana, Bathinda and Hoshiarpur with capacity of 15,000 trainees per centre per year

A skill training academy is being established in Ropar in collaboration with the TATA group

Private training providers (PTPs) scheme to provide infrastructure to private players with technical expertise. They are expected to train 10,000 people annually with assured placement of 70%.

Institute Management Committee (IMC) in ITIs with industry partner as Chairperson and Industry partner



MARUTI



Ready pool of skilled talent

Quality institutes and high academic standards

There are several leading institutes in Punjab that impart high quality training in all fields to thousands of individuals. The state has 13 universities and over 500 colleges.

Mohali Knowledge City:

Hometo India's premier institutes

- Indian Institute of Science Education & Research (IISER)
- Indian Institute of Nano Science Technology (IINST)
- National Agri-Food Biotechnology Institute (NABI)
- Indian School of Business (ISB)
- Mohali Biotech Park
- Punjab Biotech Incubator (PBTI)



Institute	Number
Universities	18
Arts, Commerce, Home Science and Science Colleges	238
MBA Colleges	118
MCA College	55
B - Pharmacy College	32
Architecture College	06
Hotel Management	08



Hospitality

Three government and six private institutes of hotel management (including UT) trained 900 persons during 2011–12.



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