

PUNJAB'S UNIQUE MODEL FOR EASE OF DOING BUSINESS



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Investment Promotion Agency | Unified Regulator | Aftercare Agency

WE COMMIT. WE DELIVER.

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INDIA SCENARIO



Snapshot of IT/ITeS and ESDM Sector

IT/ITeS

Share in GDP

Share in services export 45%

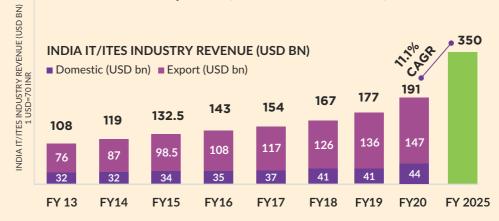
Share in global outsourcing market 52%

FDI
USD 6 billion
(INR 0.42 Lakhs Crore)
(2017-18)
(2nd largest sector

in FDI inflows)

Employment
4.3 million
(FY 20)

The market size of IT/ITeS is expected to grow to USD 350 billion by 2025 (INR 24.5 Lakhs Crore)



ESDM

The Indian electronics hardware market is one of the largest in the world and is expected to reach USD 540 billion in 2025 from USD 215 billion in FY2019

FDI USD 452 million

(INR 3,164 Crore) (2018-19) up from **USD 197 million** (INR 1,379 Crore) (2017-18) Share in GDP 2.3%

CAGR (FY19-FY25) 16.6%

Source: India Brand Equity Foundation, Invest India, Make in India, NPE

Drivers of India's IT/ ITES Sector



Growing Demand

- Rising domestic demand led by BFSI, Healthcare, Retail & eCommerce
- Market Size of BPM: US\$38 billion in FY20. Market Size of BPM industry to reach US\$54 billion by FY 25
- Growing demand from APAC, Latin America and Middle East
- New opportunities due to emerging technologies such as AI/ Blockchain/ Data Analytics
- IT spending in India is projected to increase by 6% to reach US\$82 billion in 2021
- India Data Center Industry has attracted an investment of US\$ 396 million in 2020 and has investment opportunities worth US\$ 3.5 billion over the next three years



Infrastructure

- 231 exporting SEZs across the country to create employment, boost exports and encourage infrastructure development
- 62 Software Technology Parks of India (STPI) centers across the country
- Robust IT Infra like country-wide OFC network, broadband coverage, IT parks etc



Human Capital

- Presence of highly skilled, English speaking workforce
- In FY20, the industry added 138000 new employees, taking the total employment to 4470000
- Approximately 780,000 engineering graduates annually
- In September 2020, NASSCOM FutureSkills and MS collaborated to launch a national wide AI skilling initiative to train 1 million students in AI technology by 2021



Policy

- 100% FDI permitted under automatic route
- Focus sector under Make in India
- National Policy on software products (2019) to promote software development, create 35 lakh jobs by 2025, & nurture 10000 startups
- Dedicated software product development fund being created with a corpus of INR 1000 crore
- Thrust on Artificial Intelligence (AI) usage across all sectors

Drivers of India's ESDM Sector



Growing Demand

- Poised to be the 3rd largest consumer economy in the world
- 2nd largest manufacturer of mobile phones in the world
- Increasing per capita income and resultant change in lifestyle
- Expected growth from Tier 2 & 3 cities
- Increased presence of organized retail
- Huge demand for electronic goods in the Middle-Eastern countries, emerging markets such as North Africa and Latin America



Infrastructure

- Under Electronics Manufacturing Cluster (EMC) Scheme 20 greenfield EMCs and 3 brownfield EMCs being set-up to attract investment of INR 54,836 crore
- ESDM Incubators being set-up by MeITY
- OEs in cutting edge electronic design have been set-up by MeiTY
 - National Centre for Flexible Electronics (NCFlexE), IIT Kanpur
 - National Centre of excellence in technology for internal security IIT Bombay



Human Capital

- Setting up of Electronics Sector Skill Council with NSDC & other Associations
- Financial Assistance to States/UTs for skill development in EDSM to train 90,000 candidates at total outlay of approx INR 114 crore
- Support for 3,000 additional PhDs in ESDM and IT sector at an estimated cost of INR 466 crore for a period of 9 yrs
- Scheme for "Skill Development in ESDM for Digital India" to facilitate skill development of 328,000 persons in ESDM at an outlay of approx INR 411 crore



Policy

- 100% FDI permitted under the automatic route
- National Policy on Electronics (NPE) 2019
 - Focus on emerging technologies such as 5G, IOT, Al, Robotics, Drone, etc.
 - Sovereign Patent Fund for development & acquisition of IP
 - Special package for export promotion, incentives for core component manufacturing ecosystem, high capital intensive projects
- The production-linked incentive (PLI) schemes provides opportunities to establish manufacturing plants in India.





IT/ITeS Ecosystem: Overview of Present Scenario

Strong Ecosystem

Presence of 150+ registered IT units

Approximately 35.000+ IT professionals in the region

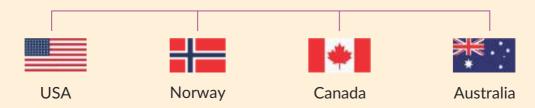
Higher cost savings of 9-14 % over tier 1 cities

Achieved more than twice the allotted target by bagging 2600 seats under the flagship Gol **IBPO Scheme**

STPI Exports amounting to INR 5,000 crore

Presence of firms such as Xenon Stack, Zini AI, Endoenergy Systems Private Limited in emerging technologies such Big data, Al, Machine Learning, Exoskeleton, DevOps Consulting, Data Warehousing, XD Design Studio, Preventive & Assistive Technology for Healthcare

Top countries for IT/ITeS Exports



Top IT/ITeS Companies























Mohali - The Next Big IT Destination



STPI, Mohali- Largest STPI Incubation Facility in India

Mohali- The Upcoming Center of Growth





STPI

- Tier III standard world class Data Center with 160 rack capacity
- Biggest Incubation Centre with an area of 1.4 lakh sq. ft
- Plug & Play Facilities: State-of-the-art Network Operations Centre

IT City

- Project area of 1700 acres
- Approximately 60 companies present in various stages of operationalization
- Surrounded by existing Aerocity, World Trade Centre, leading Research & Academic Institutes





QUARK City

- Notified IT SEZ
- Approximately 10 lakh sq. ft of area
- Presence of over 70 IT/ITeS Companies
- Power from Quark City's own 66KV substation
- Multi tenant facility with 24 X 7 operations

BESTECH Towers

- IT Park/ commercial complex
- Multi-Level Car Parking,
 Centralized Air- Conditioning &
 100% Power Backup
- 3.5 lakh sq. ft. area available
- Options for Sale & Lease of bare shell & Plug N Play



Neuron: Centre of Excellence at STPI Mohali

Neuron is an initiative, to identify and evaluate promising startups in the field of AI/Data Analytics, IoT and Audio, Visual, Gaming (AVG) that will be hosted in the Startup Punjab Hub at STPI Mohali Incubator













Internet of Things





Audio, Visual, Gaming

500 SEATER INCUBATOR

with an Investment of INR 20 crore at STPI Mohali. Startups working on Cutting Edge Technologies

Partners



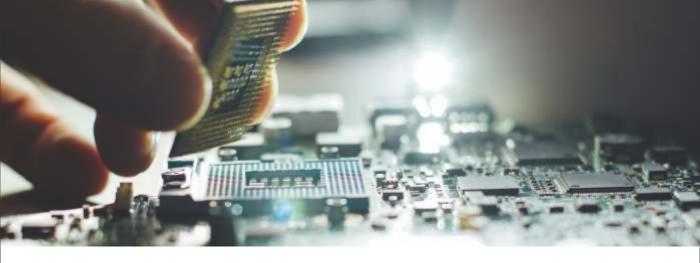












ESDM Sector in Punjab

India's only large scale ASIC Fabrication Laboratory

Contributing to space and beyond through cutting edge R&D



Semiconductor Laboratory (SCL) supplied more than 100,000 units of Multiplexed Analog Signal Processor (MANAS) ASIC for use in high energy physics experiments (ALICE) at Large Hadron Collider, CERN- Geneva



SCL Developed two kinds of Low Drop Out (LDOs) Regulators for use in fabrication of equipment on-board spacecraft rocket Chandrayaan - 2

Major ESDM Companies in Punjab









Research Institutes









Snapshot of ESDM Ecosystem in the Region



Semi-Conductor Lab

- SCL is engaged in design and development of Microelectronics
- The country's only CMOS fabrication facility (Fab)
- Designed over 150 ASIC/ Standard Blocks in last 5 years, meeting ISRO's requirements



Defence

- Ordinance cable factory, established in collaboration with SUMITOMO Japan in 1963
- Product portfolio includes Carrier Quad Table, Spring Steel Wires Air Field, Filled Cable Assemblies for T-72 & BMP-I

ETDC

Testing & Development Centre

- ETDC, Mohali is a leading laboratory engaged in providing Accredited Calibration and Testing Facilities
- Serves small and medium scale electronic industries



Scientific & Industrial Instruments

- CSIR is a premier national laboratory dedicated to R&D and design of scientific and industrial instruments
- Offers R&D facilities in areas like agrionics, medical instrumentation, optics, cockpit bases instrumentation, transducers etc

Snapshot of ESDM Ecosystem in the Region



Research & Development

- C-DAC, Mohali is a premier R&D organization set-up in 1989 to train manpower in electronic design & technology
- Product and services include high performance computing, grid and cloud computing, cyber security and forensics, software technologies, multilingual & heritage computing

भारत इलेक्ट्रॉनिक स BHARAT FIFCTRONICS

Electronics

- BEL is a manufacturer of diversified product portfolio ranging from defence focused state-of-the-art equipment to civil products such as electronic voting machine, tablet PC, solar power traffic signal system and access control systems
- Caters to domestic as well as 53 international customers across countries such as Japan, Germany, France, USA, UK and Vietnam



Telecom

- Punjab Communication Ltd is a Telecom and IT equipment manufacturer & solution provider
- Product range covers voice/data, multiplexers, power line carriers, broadband equipment and services etc
- It is a ISO 9001:2000 certified company with state of the art SMT manufacturing facility



• Electronics

- CDIL is a renowned semiconductor manufacturer of silicon chips and devices since 1964 with state-of-the-art equipment
- It has a sales and distribution network in over 35 countries



Punjab: Strategically Located & Well Connected



Robust Connectivity

Direct Flights Available from Amritsar & Mohali

Sharjah (4 hrs) London (9 hrs) Tashkent (2.5 hrs) Dubai (4 hrs) Birmingham (9 hrs) Doha (4.5 hrs) Kuala Lumpur (6 hrs) Singapore (6 hrs)

AMRITSAR INTERNATIONAL AIRPORT

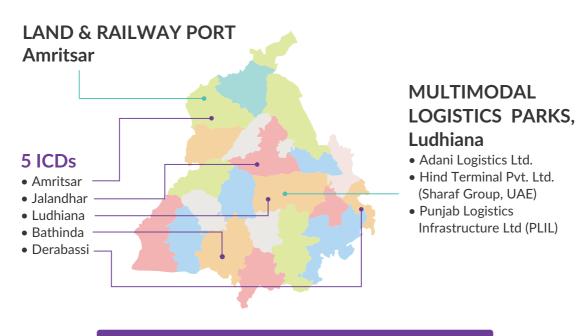




- 100% Road Connectivity
- All Major Towns Connected with 4/6 Lane Highways
- Road Density 2 times higher than National Average

2nd highest rail density in India

Ranked 2nd in Ease of Logistics in India



Ranked Best in India on Safety & Security of Cargo Movement

O DEDICATED FREIGHT CORRIDORS

[Eastern & Western] (Intersection Point – Dadri)

- Max Speed 46 to 62 Miles/Hr
- Load Capacity Per Train5300 to 13000 tonnes
- Reduction in Freight Cost By 33%





Attractive Fiscal Incentives

IT/ITeS and ESDM sector has been identified as a thrust sector

Anchor Units

- Net GST reimbursement for 15 years subject to 200% of FCI
- Employment generation subsidy @ INR 36,000/employee/year for a period of 5 years;
 INR 48,000/employee/year for women and SC/ST/OBC employees
- 100% exemption from CLU/EDC Charges
- Stamp Duty exemption up to 100%

- Property Tax Exemption up to 100% for 10 years
- Electricity Duty Exemption up to 100% for 10 years

Capital Subsidy for IT/ITeS Units

50% of Fixed Capital Investment (FCI) subject to a ceiling of INR 2.5 crore per unit

Additional 50% Top up of Capex Support for SPECS approved projects in Punjab

Ease of Doing Business -Punjab Bureau of Investment Promotion





INVESTMENT PROMOTION AGENCY



DEDICATEDRELATIONSHIP
OFFICER



DIGITAL APPROVALS

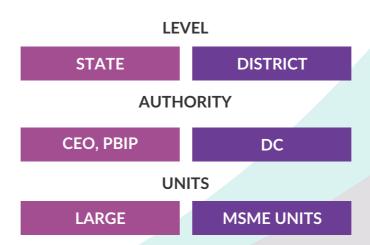


FISCAL INCENTIVE APPROVALS

ONE STOP OFFICE
ADVANCED SINGLE WINDOW SYSTEM
ONE OF ITS KIND IN INDIA

REGULATORY CLEARANCES

INVESTMENT FACILITATION



Quality Power at Low Cost

ABUNDANT

Installed Capacity
13,902 MW

LOW COST

Power @ INR **5.00** per unit

QUALITY

T&D Losses 14.11 % National Average 22 %

No shortage even during peak demand



Month-wise power supply 2017-18 (in terms of peak demand and availability)

Peaceful & Competitive Workforce

PEACEFUL

No Lockouts No Strikes Flexibility In Hiring No Domicile laws **FRIENDLY**

State Ranks 3rd on Interstate Migrant Policy Index 2019 **REFORMS**

24x7 Shifts Allowed Across Genders

No disruptions in working environment

Skilled Human Capital

6000+ graduates in IT and allied fields

8000+ students trained in ESDM / IT

Institutes	Number	Total Annual Graduates
Engineering	89	45,013
Polytechnics	204	66,495
ITIs	344	70,000

Courses offered

Artificial Intelligence Machine Learning Cloud Computing Internet of Things

Robotic Process Automation

Some Leading Institutions



Indian School of Business Mohali



IIM, Amritsar



IIT, Ropar



Thapar Institute of Engineering & Technology



PEC, Chandigarh



PTU, Jalandhar



B.R Ambedkar NIT, Jalandhar



Guru Nanak Dev Univeristy



LPU, Jalandhar



Chitkara University



IISER, Mohali

Ensuring Quality of Life

Modern Health Infrastructure

- Ranks 2nd on National Health Index
- Home to leading health institutions such as PGI, Fortis, Max, Apollo

Peaceful Environment

- Abundant green spaces around settlements
- Higher air quality than Delhi NCR

Leisure Spaces ----













Hotels -----











Hospitals -----











Schools ----







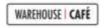


Night Life --













Weekend Getaways ----



Shimla -130 km



Chail - 106 km

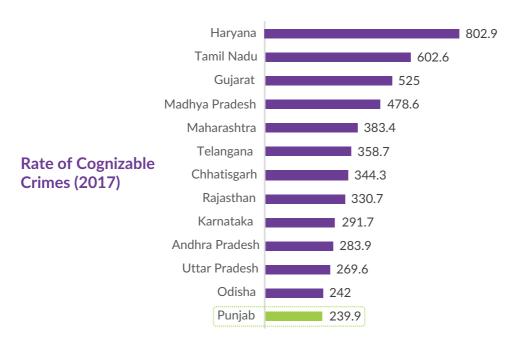


Kasauli - 54 km

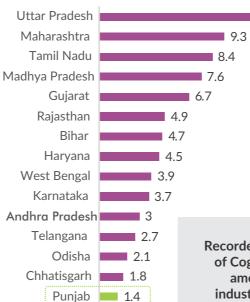


Parwanoo - 30 km

Safest Place to do Business







Recorded Lowest Share of Cognizable Crime amongst major industrialized states of India





Software Development Centre



Artificial Intelligence & Machine Learning



Smart Solutions-Blockchain, IoT etc



Semi Conductor Wafer Fab



3D Printing



Electronic Manufacturing



Engineering Designing



Agritech



Smart Logistics



R&D Labs



BPO/KPO



Data Centres



Website & Application Development



Animation, 3D, Gaming & Digital Entertainment



STPI Amritsar: Expanding Horizon of ITeS Sector to Other Cities

- Facilities in STPI Amritsar Centre
 - Developed on 3 acre land with an estimated cost of INR 20 crore
 - State-of-the-art Network Operation Centre
 - State-of-the-art Plug N Play Incubation Facility
 - Raw Space for Incubation Facility
- Will provide services to Small and Medium Enterprises & spread IT/ITeS and BPO industry

Advantage Amritsar

Hub of Diversified Industries

Robust Connectivity

Presence of Enormous Talent Pool

Lower cost of operations

Investors Voice



Mr. UB Pravin Rao COO/ Director

Infosys

Mohali has a great ecosystem for the development of IT/ITeS services. Infosys has been operating in this region for many years and Invest Punjab has been extremely proactive and cooperative to facilitate the setting up of the Infosys campus at IT City, Mohali. The city has highly skilled manpower and is emerging as a big IT destination in India, comparable to leading global cities.



Mr. Pankaj Gulati, Executive President & COO

CDÎL

The proactive approach of the Invest punjab team and their professional understanding of the industry functioning helps in promoting the industry in this area. Additional benefits offered by the Punjab Government, linked with SPECS and the PLI scheme of Government of India is an added advantage. The efforts of Invest Punjab with its investor friendly initiative and keenness to resolve industry issue have made the state a preffered investment destination for the ESDM industry.



Mr. Pratap Aggarwal Co-Founder and MD



Mohali has developed as a prominent city for software development and exports in the northern region. The city is open to expansion of major players in the IT/ITeS sector with ready availability of IT professionals.

Investors Voice



Mr. Kamaljit Singh Senior Vice President

BESTECH

Punjab has abundant skilled IT/ITeS manpower which fosters the current ecosystem. The state government has proactively put IT/ITeS as a thrust area thereby providing attractive incentives



Mr. Sanjay Raitani Sr. Vice President



With support from Invest Punjab and Dept. of IT, Govt. of Punjab, Teleperformance successfully bid 1,600 seats in Mohali, in the IBPO Scheme. The quality of life and infrastructure in Mohali and its close proximity to International Airport were the key drivers for setting up our BPO operations in this city. Invest Punjab office and state authorities have been extremely cooperative in facilitating setting up of our newest campus in one of the prominent state-of-the-art buildings in Mohali.



Dr. Deepak KansalManaging Director



"Officials of Invest Punjab are thorough professionals and have provided us continuous support and handholding in our investment journey. Invest Punjab is a great single point of contact for new as well as expansions plans for industry.

I being CII Vice-Chairman have seen other states also praise Invest Punjab for their continuous support for development of Industry in Punjab.

All the best!!"

Major IT/ITES & ESDM Players in Punjab

































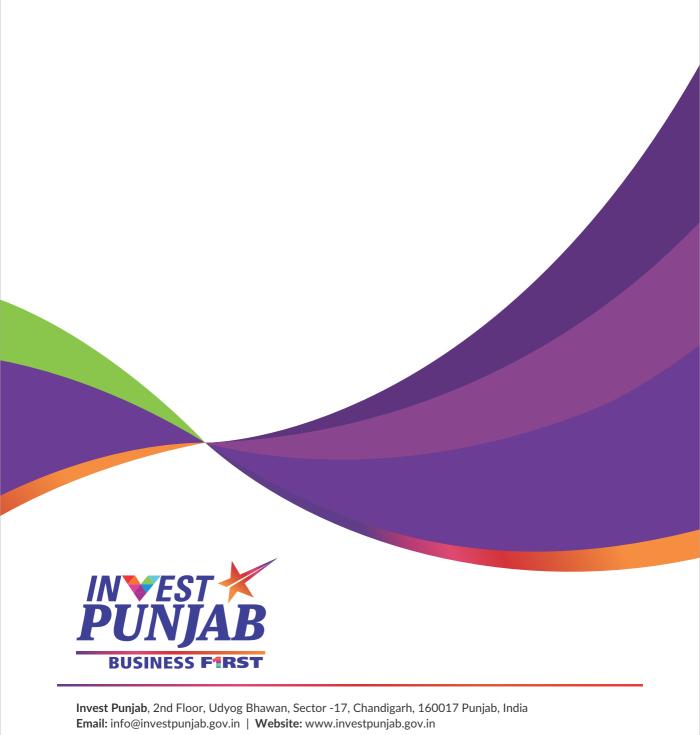












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