





HIGHLIGHTS OF ELECTRONICS MANUFACTURE IN KARNATAKA

- One of the largest contributors to Electronic Industrial Output in the country and recorded a growth rate of 18% CAGR (2008-13).
- Presence of 85 chip designing companies.
- ESDM Revenues USD 2.8 bn.
- I mn Direct Employment, 2.5 mn Indirect Employment in IT sector.
- 3,500Tech Companies.
- India's first Centre of Excellence on Internet of Things (CoE-IoT) was launched in Bengaluru, Karnataka on July 7,2016.



WHY ELECTRONICS & ELECTRICAL,

- Being home to 70% of India's chip designers makes Karnataka the 2nd largest chip design hub of India.
- Bangalore est technological cluster in the world and the 1st state to roll out ESDM skill development program targeting for 15,000 youth to be trained across 5 years.
- Preferred Location for designing companie
- Bengaluru is a global two for Real activity of the software industry, which will greatly aid the electronic hardware industry.
 - wo ESDM clusters in Bengaluru and Mysuru being set up with total investment of USD 25 mn.
- Two world class innovation centres for designing, prototyping, testing, characterization and certification-IIIT
 Bengaluru and STPI Bengaluru.
- Apple Inc. has recently had discussions about the initiatives in manufacturing in Karnataka.





INVESTMENT OPPORTUNITIES

Potential Areas of Investments

Medical Electronics

- · Diagnostic and therapeutic instruments
- · Equipment testing and monitoring with wireless connectivity

Communication Hardware and Networks

- Manufacturing of networking hardware like gateways, routers, network bridges, switches, convertors, etc
- Mobile phones, Personal Display Assistants (PDAs)

Semiconductor Design

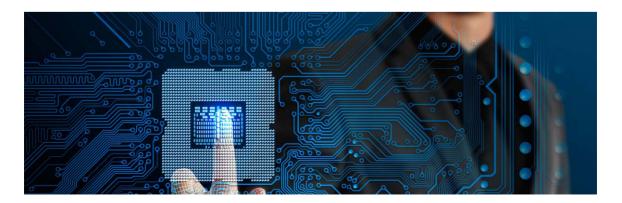
- · Medical, automotive, mobile equipment
- Design for consumer electronics like personal electronics,
 PCs. servers, etc

Consumer Electronics

 Audio and video equipment for home entertainment (TV sets, set top boxes, music systems), and musical instrument amplification

Defence Electronics

- · System design, engineering and testing services
- Development of Tactical Communication System; Internet protocol based mobile system







GOVERNMENT INITIATIVES

- Karnataka Electronic System Design and Manufacturing (ESDM) Policy announced in 2013 which provides
 measures for investments, ease of doing business, venture capital, R&D and capital subsidies, Special package
 for Mega Projects.
- First state to roll out initiatives for innovation centres, skilling centres and dedicated ESDM clusters.
- 3000 personnel to be trained every year in Electronics System Design & Manufacturing (ESDM) sector.
- Financial and human resource contribution in providing flagship initiatives such as support infrastructure, the SMART Lab (Semiconductor Measurement, Analysis and Reliability Test Lab) and the Electronic Hardware common facility center.
- Monetary support for filing patents.
- Fiscal incentives in the form of capital subsidy (Upto 10% of capital investment or INR 50 million, whichever is lower) and R&D subsidy (reimbursement of up to 20% of actual R&D spend upto maximum of 2% of AnnualTurnover).
- Capital Subsidy for Anchor units in Greenfield clusters.
- Encouraging start up ecosystem, patent grants and incentives for export markets, Preferential Market Access (PMA) and Post performance Incentives and subsidies.
- Karnataka Semiconductor Venture Capital Fund (KARSEMVEN Fund), a specialized fund for semiconductor start-ups.







ELECTRONICS & ELECTRICAL COMPANIES MAKING IN KARNATAKA















