Compendium of Investment Projects

Information Technology and Electronics System Design & Manufacturing

ODISHA
NEW OPPORTUNITIES

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1 Electronics Manufacturing Cluster, Bhubaneswar

Name of Project	Electronics Manufacturing Cluster, Bhubaneswar
Project Location	Harapur and Durgapur village, Jatni Tehsil, Khurda District
Area of the Project	216 acre
Approx. Project Cost	INR 745 crore (USD 111.5 million)
Focus Sector	ESDM
Employment	Approx. 12,000
Status of Approvals	Final approval for the project has been received from Department of Electronics and Information Technology, Government of India. The park is to be set up under Electronic Manufacturing Cluster (EMC) scheme of the Centre.
Project Contours	• The project will be developed over 216 acres of land and will accommodate around 100 electronics products and components manufacturing units. • The project is part of an integrated township with walk-to-work concept. • The project is surrounded by a well-developed IT and software ecosystem led by leading IT players in the country including Infosys, Tata Consultancy Services, Wipro etc. • The project is planned to have 150 acre of fully developed plots ranging from 0.5 to 5 acre catering to all sectors of the ESDM ecosystem.
Investment Opportunities	• Major opportunities include manufacturing of Electronic Products, Electronic components, Semiconductor design and fabrication and Equipment manufacturing.
Connectivity	• The project is situated just 3 km from National Highway 5 • The project is situated on the outskirts of Bhubaneswar and is just 23 kms from Bhubaneswar Airport • Paradip port is around is around 130 Kms
Proposed Infrastructure	• The proposed requirement of 1.65 MLD will be provided by the Government. • Central Electricity Supply Utility of Odisha shall provide 25 MW of power to the project.
Nodal Agency	Odisha Industrial Infrastructure Development Corporation (IDCO)

2 Infovalley, Bhubaneswar

Name of Project	Infovalley, Bhubaneswar
Project Location	Harapur and Durgapur village, Khurda District
Area of the Project	600 acre
Approx. Project Cost	INR 18,000 crore (USD 2,693 million)
Focus Sector	ESDM and IT & ITeS
Employment	Approx. 12,000

Project Contours	• Infovalley region is being developed by the Odisha Government on over 600 acres of land at Janla between Bhubaneswar and Khurda.
	• Infosys is the anchor tenant of the region. Infosys has committed an investment of INR 300 crore in the first phase of the project which is under implementation.
	• The Infovalley is part of planned ITIR (IT Investment Region). The major components of the project are:
	  • 262 acre of Notified IT SEZ
	  • 35 acre of Business Park
	  • 216 acre of Proposed IT ESDM Park
	  • 100 acre of green pace

Investment Opportunities	• Development of the entire physical and social infrastructure for 'Infovalley' along with the government. • Setting up IT & ITeS facilities in the Park
Connectivity	• The project is situated just 3 km from National Highway 5 • The project is situated on the outskirts of Bhubaneswar and is just 23 kms from Bhubaneswar station and 22 km from the airport
Proposed Infrastructure	• The proposed requirement of water will be met by the Government • 24/7 supply of power guaranteed by the Government
Nodal Agency	Odisha Industrial Infrastructure Development Corporation (IDCO)

3 Upgradation of Odisha State Wide Area Network

Name of Project	Upgradation of Odisha State Wide Area Network (OSWAN)
Project Location	State Headquarter, 30 Districts & 284 Blocks
Approx. Project Cost	INR 100 crore (USD 15 million)
Focus Sector	e-Governance & Information Technology
Employment	Approx. 325
Status of Approvals	Appointment of Consultant is under process.
Project Contours	• SWAN is one of the core infrastructure of NeGP. Odisha SWAN is operational since August 2010. • As part of SWAN, the State Headquarter (SHQ) has been connected with all District Headquarters (DHQs) & 284 Block Headquarters (BHQs). • The Network is capable of carrying Voice, Video & Data. • About 40 Video Conferencing Studios have been established under OSWAN. • Similarly, critical Government offices like Tehsils, Registration Offices, Treasuries, Sub-Collector Offices, DRDAs, Sadar Blocks, Urban Local Bodies, Health Institutions, etc. have been provided with 2 mbps OSWAN connectivity as Horizontal Offices. • MPLS connectivity shall be used during up-gradation of OSWAN.
Investment Opportunities	Supply, installation and maintenance of network components
Proposed Infrastructure	• After detailed study of the existing equipment and technologies available, the Consultant shall finalize the proposed infrastructure.
Nodal Agency	Odisha Computer Application Centre (OCAC)

4 Expansion of Odisha State Data Centre

Name of Project	Expansion of Odisha State Data Centre
Project Location	OCAC Building, Bhubaneshwar
Area of the Project	11,150 Sqft.
Approx. Project Cost	INR 33 crore (USD 5 million)
Focus Sector	Information Technology
Status of Approvals	Approved by Electronics & IT Department
Project Contours	• Design and Site Preparation for the expansion of Odisha State Data Centre in terms of the civil, electrical and mechanical work and all other necessary components required to build the Data Centre in line with the existing SDC. • Supply, installation and setting up of the necessary basic Infrastructure (State of the art UPS and Air-Conditioning System, Fire Detection and Control System, Diesel Generator Units, Lighting System, Power and Network Cabling, etc.). • Supply, installation and setting up of the multi-layer Physical Security Infrastructure like biometric/ smart card, etc. based access-control system, CCTV/ surveillance systems. • Establish effective and efficient Infrastructure monitoring & management practices to ensure reliability, availability, quality of services and security of the Information systems. • Help departments to focus on addressing the issues in service delivery & administration. • Help in freeing the departments from the problems relating to vendor management, Infrastructure, Security and performance management to a competent Implementation Partner identified for the entire State.
Investment Opportunities	• Co-location and Shared Hosting • Platform availability for various departments • Support system for e-Governance
Proposed Infrastructure	• IT & Non-IT infrastructure • Aggregation of IT infrastructure (Hardware, Storage, Networking and Software) and management resources. • Operation & Maintenance – 24x7x365
Nodal Agency	Odisha Computer Application Centre (OCAC)

5 Development of ESDM Clusters

5.1 Rayagada

Name of Project	Development of ESDM Clusters
Project Location	Rayagada
Investment	INR 500 Crore(USD 75 million) including Central Government and State Government funds
Land Area	200 acre
Employment	Approx. 5000
Mode of Development	Public Private Partnership
Project Contours	**Rayagada – Strategic Advantages** • Rayagada is in close proximity to institutes like National Institute of Science and Technology (NIST), Government College of Engineering, Centurion University of Technology and Management. • The district is rich in minerals like Bauxite, Graphite, Manganese, and Quartz. **Proposed Infrastructure and Amenities** • These developments are in accordance with the State's sector road-map for the ESDM sector • The cluster will have common facilitation centers with full-fledged testing facilities for EMC Safety testing, RF, Microwave testing, and Endurance testing.
Investment Opportunities	• Developing, operating and maintaining the infrastructure, amenities and common facilities created in the park.
Nodal Agency	Odisha Industrial Infrastructure Development Corporation (IDCO)

5.2 Balasore

Name of Project	Development of ESDM Clusters
Project Location	Balasore
Investment	INR 500 Crore(USD 75 million) including Central Government and State Government funds
Land Area	200 acre
Employment	Approx. 5000
Mode of Development	Public Private Partnership
Project Contours	**Balasore – Strategic Advantages** • Balasore as one of the proposed locations for a new non-major port in the state. • The Government of Odisha has planned to set up a new STPI. • The district hosts around 8,000 industrial units specializing in electrical machinery and electronics. **Proposed Infrastructure and Amenities** • These developments are in accordance with the State's sector road-map for the ESDM sector • The cluster will have common facilitation centers with full-fledged testing facilities for EMC Safety testing, RF, Microwave testing, and Endurance testing.
Investment Opportunities	• Developing, operating and maintaining the infrastructure, amenities and common facilities created in the park.
Nodal Agency	Odisha Industrial Infrastructure Development Corporation (IDCO)

5.3 Rourkela

Name of Project	Development of ESDM Clusters
Project Location	Rourkela
Investment	INR 500 Crore(USD 75 million) including Central Government and State Government funds
Land Area	200 acre
Employment	Approx. 5000
Mode of Development	Public Private Partnership
Project Contours	**Rourkela – Strategic Advantages** • Rourkela is in proximity to major industrial hubs and has a network of academic institutes like NIT, Rourkela, Biju Patnaik University of Technology, Veer Surendra Sai University of Technology and a wide network of ITCs and ITIs. **Proposed Infrastructure and Amenities** • These developments are in accordance with the State's sector road-map for the ESDM sector • The cluster will have common facilitation centers with full-fledged testing facilities for EMC Safety testing, RF, Microwave testing, and Endurance testing.
Investment Opportunities	• Developing, operating and maintaining the infrastructure, amenities and common facilities created in the park.
Nodal Agency	Odisha Industrial Infrastructure Development Corporation (IDCO)

6 Development of Design Centre at Bhubaneswar

Name of Project	Development of Design Centre at Bhubaneswar
Project Location	Bhubaneswar
Investment	INR 100 crore (USD 15 million)
Land Area	25 acre
Employment	Approx. 500
Mode of Development	Public Private Partnership
Project Contours	The proposed site is in close proximity to institutes like IIT, IIIT, Bhubaneswar and College of Engineering & Technology, Bhubaneswar. These institutes can act as the talent hub for attracting suitable talent for a design center. This center will offer special targeted facilities for the ESDM sector including: • Test and Certification, Tool Room, Design House • IT/Communication Centre • Common Training/ Convention Centre • Workers Housing Complex and Related facilities • Utilities, Roads, Backup Power generation, Water supply, Welfare facilities • ESDM innovation centers for entrepreneurs for concept to prototyping • Enabling infrastructure such as VLSI design tools, prototype development facilities, testing facilities, characterization labs, compliance and certifications labs
Investment Opportunities	• Developing, operating and maintaining the infrastructure, amenities and common facilities created in Design Center.
Nodal Agency	Department of Electronics and Information Technology and Odisha Industrial Infrastructure Development Corporation (IDCO)

7 Semiconductor Characterisation Lab

Name of Project :	Semiconductor Characterisation Lab
Project Location	Bhubaneswar
Approx. Project cost	INR 11 crore (USD 1.65 million) in 1st Phase INR 3 crore (USD 0.5 million) in 2nd Phase
Focus Sector	ESDM
Status of approvals	Procurement of Lab equipment under process
Project contours	Electronics & IT Department, Government of Odisha is setting up a of Semiconductor Characterization Laboratory (SCL) jointly with Software Technology Parks of India (STPI), Govt. of India similar to one is being established at Bangalore. In the process of designing and manufacturing of semiconductors, the chips need to undergo validation for its reliability in the lab consisting of various equipment known as 'Semiconductor Characterization Lab'. The first few chips from the fabrication will be tested for its reliability by subjecting it to various mechanical, electrical and thermal stress conditions. This will be carried out before the mass production
Planned Activities:	Characterization is verification of physical chip under different power, thermal, humidity, mechanical conditions, to check whether the chip performs as specified under real life usage and to check whether the chip behaves exactly the same as it was conceived during the design stage. Essentially, characterization lab would ensure chips performance in real life usage. It is the last step before mass production
Proposed Infrastructure	Characterization Lab consists of Test & Measurement equipment such as logic analyzers, spectrum analyzers, oscilloscope, network analyzer, DVM, spectrum analyzer and Reliability Test equipments etc. The Characterization lab would require following physical infrastructure with specific requirements and hardware equipments. • Around 2000 sq feet building • Chilled Water, Compressed air, UPS • Anti-static flooring (ESD) • High ceiling of 14 feet • Set of Test & Measurement and Reliability Test equipment • Support Team for facilitating test.
Nodal Agency	Software Technology Parks of India (STPI), Bhubaneswar

8 ESDM Incubation Centre

Name of Project	ESDM Incubation Centre
Project Location	Bhubaneswar
Approx. Project cost	INR 22.44 crore (USD 3.4 million)
Focus sector	ESDM
Status of approvals	STPI-Bhubaneswar has prepared a DPR for setting up of ESDM Incubation Centre at Bhubaneswar similar to Electro-entrepreneur Park being implemented by STPI at New Delhi. The DPR is under consideration of Ministry of Electronics & IT, Government of India.
Project contours	Recognizing the opportunity in ESDM sector, STPI Bhubaneswar in association with E & IT Department, Govt. of Odisha have come together to set up the first ESDM incubation centre in Bhubaneswar, Odisha equipped with state-of-art facilities to promote ESDM innovation, R&D and IP creation. In order to select the target products and segments, as a first step Odisha should focus on the following proposed verticals: • Energy • Healthcare • Process Control/ Industrial Automation • Education • Semiconductor Design (Will be made provision in future based on actual requirement of Incubatees)
Planned Activities:	The ESDM Incubation Centre will provide the platform for the start-ups in terms of Plug & Play Infrastructure, Mentoring support from the Industry experts, Business/Product guidance, Referrals, Market Intelligence, Patent search etc. to convert their ideas to the prototype stage.

Proposed Infrastructure	Following infrastructure & facilities are proposed to be developed
	• 7,500 sq. ft. Built up space with state of the art facilities designated for ESDM incubation
	  ○ The state of the art facilities include fully furnished office Space & High speed connectivity etc.
	• State of the art ESDM Lab with equipment's for prototyping and testing in the following areas
	  ○ Power Electronics
	  ○ LED
	  ○ Communication
	  ○ RF
	  ○ Software
	  ○ Embedded hardware and software
	  ○ Test and measuring
	• Enabling the Supply Chain.

Name of Project	ESDM Incubation Centre
	• Create partner eco-system that will bring in a bouquet of shared services and facilities to the incubatees. (Tax, Legal, Finance, Accounting, Patent Search, Training, interns, business counselling, etc.)
Nodal Agency	Software Technology Parks of India (STPI)

9 Bhubaneswar City Wi-Fi

Name of Project :	Enabling Bhubaneswar as a "Wi-Fi City"
Project Location	Bhubaneswar
Approx. Project cost	INR 96 crore (USD 14.4 million)
Focus sector	IT Infrastructure
Employment	Approx. 200 (Direct & Indirect)
Status of approvals	Detailed Project Report (DPR) has been submitted to Government of Odisha. Earlier Proof of Concepts (PoC) are successfully completed created at Six strategic locations of the city.
Project contours	Government of Odisha has been a pioneer in promotion of ICT and in forefront of implementing e-Governance initiatives in the country. In pursuance to the same, Department of IT, Government of Odisha has envisaged in creating Wi-Fi hot spot at specified locations across Bhubaneswar to make the city completely Wi-Fi enabled. The Scope of work enabling Bhubaneswar as a Wi-Fi city includes setting up, operation and maintenance of Wi-Fi Zones to provide wireless internet access to citizens and tourists using Wi-Fi enabled Laptops, mobile devices like cell phones and tabs etc. The Wi-Fi hotspots are to be set-up at various prominent locations in Bhubaneswar. Connectivity shall be offered to citizens for free for a specific time period also emphasis will be made for addressing the issue of digital inclusion for economically disadvantaged citizens in terms of easy access through KIOSK. Citizens and visitors can access the Internet at public transportation stations (Bus stops & terminals, Railway Stations, Airports) and in public transportation vehicles (buses, trains etc). Apart from the above it is envisaged that the Bhubaneswar City Wi Fi System will be integrated with all E-Governance application to make available all citizen centric services at anywhere and everywhere to the Citizens of the city.
Proposed Infrastructure	Approximately 5,000 Access points to cover around 400 km as proposed in DPR with backhaul Fiber connectivity
Nodal Agency	Electronics & IT Department, Government of Odisha Software Technology Parks of India (STPI)

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