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"DEVELOPMENT OF INFORMATION TECHNOLOGY IN THE STATE OF MADHY PRADESH"
(With Special reference to Madhya Pradesh State Electronics Development Corporation Ltd.)

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Abstract: Generally, the term IT (Information Technology) greatly refers to the administration and tools to utilize valuable information through computers. It contains processing, distributing, acquiring and storing information for further requirement in the future. Information technology is related with business relevance's of computer machinery, rather than technical applications. The development in the field of   IT will give the best outcomes to control commerce and create a bridge to maintain communication at any part of globe. It is helpful to innovative and concentrated commerce structures of the country.

M.P. State Electronics Development Corporation Ltd. is the agency of the state working towards promotion & implementation of IT and e-Governance. It is the single-point of access to any IT business opportunity in Madhya Pradesh and encourages various players in the field of IT to come forward and invest in Madhya Pradesh.

In this modern day and age, information technology plays a big role. However, if you're not in the field of information technology yourself, you might not know just how information technology touches your life. This paper can help to find out how information technology plays a role in a number of different fields that you might not have realized as well as the projects and initiatives which plays a vital role in the growth of IT in Madhya Pradesh. Presently MPSEDC have been entrusted with the responsibility as nodal agency for implementation of various prestigious IT projects of Government of India (GoI)) & GoMP in Madhya Pradesh development of IT PARKS, Electronics Manufacturing Cluster (EMC), infrastructure development for BPO UNITS, Madhya Pradesh State Wide Area Network (MPSWAN), Citizen Service Center(CSC), State Data Center (SDC), State Service Delivery Gateway(SSDG) etc which are in progress.

Key Words: Information technology, Development, Communication, IT Parks

Introduction

MPSEDC is a nodal agency in the field of IT development in Madhya Pradesh. MPSEDC is committed to generate IT business for the public as well as private sector with a mandate from the Government to develop IT in the S tate of Madhya Pradesh. The corporation creates opportunities for software development, supply of hardware & peripherals, networking and connectivity, web applications, e-commerce, IT training and an entire gamut of direct and indirect IT businesses. MPSEDC is the corporation under companies Act 1956 which has been entrusted with the responsibility to develop Bhopal, Jabalpur & Gwalior STP under the guidance of the Department of Information Technology, Government of Madhya Pradesh.

Its Software Technology Park (STP) at Indore occupied by CSC contributes to highest exports

from Madhya Pradesh. It is further moving ahead for working as the:

MPSEDC has vast experience and competence to its credit for implementing various projects. It has broadened its activities to encompass IT and ITES development in its objectives. Its Software Technology Park at Indore occupied by CSC contributes to highest exports from Madhya Pradesh. MPSEDC facilitate e-governance projects that are aimed at transforming the delivery of IT relative services. It facilitates employees by providing trainings and workshops to enhance their knowledge and skills towards achieving goals. To promote the use of IT and ITES in various government departments for smooth and effective communication and effective working the organization conducting various trainings, Consultancy services, Software Development, Hardware/Software procurement, Networking, Recruitment of IT professionals and development of specified areas as Hardware and Software Technology Parks. The Corporation shall also involve itself in emerging areas in the field of Information Technology through,

- Attracting IT Industry in the state of Madhya Pradesh: The IT industry grew in tier I cities. Due to congestion and infrastructural problems it has started looking at tier II cities for expanding operation and reducing cost with intension to capitalize on this development and promote investment in Indore, Gwalior, Bhopal and Jabalpur.
- Developing Common Infrastructure such as State Wide Area Network [SWAN], State Data Centre, Common service centers so that all the departments are able to utilize these services without bothering about the maintenance of these complex facilities to bring e-Governance services at the door step of the common citizen.
- Providing IT solution to Govt Departments-including Consultancy, Software, Hardware, Networking and System Integration services.

- To create brand Madhya Pradesh Inc, to function as InfoTech Engine of the State, to propagate IT investment policy of the State, to implement IT and ESDM projects on PPP model, to provide IT & mobile based applications solutions delivering citizen centric services, to empower & facilitate Government organizations by providing Total IT solutions, To use IT for Good Governance to work as IT consultant of the state, to facilitate Skill Gap Training to ensure ready to use Workable Human Resource.

Presently MPSEDC have been entrusted with the responsibility as nodal agency for implementation of various prestigious IT projects of GoI & GoMP in Madhya Pradesh viz. development of IT PARKS, EMCs, infrastructure development for BPO UNITS, SWAN, CSC, SDC, SSDG etc which are in progress. To improve Government services through e-governance and develop IT industries in the state, MPSEDC is having a progressive approach towards the same.

Objectives of MPSEDC:

- To promote the use and development of information technology and enabled services in all the industries in the State of Madhya Pradesh.
- To establish companies and associations for conducting electronic industrial enterprises of electronic industrial units with a view to improving their working culture.
- To operate as agency of State Government in schemes designed to develop electronic industry in Madhya Pradesh or elsewhere.
- To act as an industrial management, financial and technical consultants and in particular to advise prospective entrepreneurs, concerns and corporate bodies by assisting and providing services to them for the development of IT & ITES and electronics industries.

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Initiatives of MPSEDC towards IT development in Madhya Pradesh:

MPSEDC has contributed vastly in the field of IT for the State of Madhya Pradesh. MPSEDC is the corporation under companies Act 1956 which has been entrusted with the responsibility to develop Software Technology parks in Bhopal, Jabalpur & Gwalior under the guidance of the Department of Information Technology, Government of Madhya Pradesh. It has vast experience and competence to its credit for implementing various projects. It has emphasis on IT and ITES development in its objectives. Its Software Technology Park at Indore occupied by CSC(Common Service Centre) contributes to highest exports from Madhya Pradesh. It is further moving ahead for working as the:

- Nodal Agency for promotion of Electronics, Telecommunications and Information Technology in the State.
- Responsible for development of I. T. Infrastructure in the state.
- Implementing agency for establishment of STATE WIDE AREA NETWORK in the State of Madhya Pradesh.
- Implementing agency for establishment of COMMON SERVICE CENTRE in the State of Madhya Pradesh.
- Provides total solutions – Hardware, Software and Networking solutions to all state government organizations.
- Development, operation and maintenance of the Software Technology Park at Indore. (In process of developing Software Technology Parks in Bhopal and Gwalior.)
- Provides expert services for development of website, portal and customized software.
- In addition to this, MPSEDC has its own calibration lab both at Indore under STQC scheme and Bhopal which cater to the calibration requirement of various manufacturing industries. The Corporation has got accreditation from the National Board for Accreditation for Laboratories (NABL) for its Bhopal lab in the year 2006-07 for electro-technical parameters according to ISO/IEC: 17025:2005 vide Accreditation Certificate No. C – 0404 w.e.f. 09.01.2007.

Projects:

1. IT Parks:

Bhopal IT Park

Location: Adjacent to the Rajiv Gandhi Proudyogiki ,Vishwavidyalaya(RGPV) ,Village Badwai ,Bhopal

Highlights:

- 212 acres of land available at Badwai village near Airport.
- Land available to develop IT Park with workspace of 2 - 2.5 million Sq.Ft.
- 1 Lakh sft space to be made available.
- STPI Incubation Centre to be developed.
- Land reserved for EMC 50 acres.

Indore IT Park
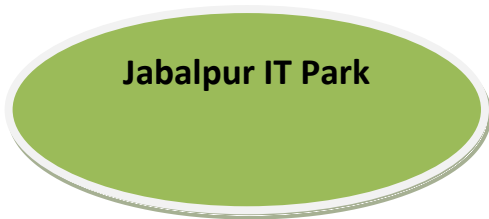
Location: Village Sinhasa, Sirpur Dhar Road ,Indore

Highlights:

- 112 acres of land available at Sinhansa Village Indore.

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Gwalior IT Park

Location: Village Ganga Malanpur, Murena Link Road, Gwalior

Highlights:

- Land to Develop IT Park with workspace of 5 - 10 lakh Sq. ft.
- Built-up space of 80,000 Sq.Ft. available common support infrastructure - Business centre, convention hall and library.
- 1 Lakh sft space to be made available.
- 136 acres of land available.

Jabalpur IT Park

Location: Purva Bargi Hills,Village Purva ,Jabalpur

Highlights:

- 60 acres of land available at Bargi Hils 25 km from Airport and 13 km from Ryl Station.
- 19 acres of land available at Gadheri Hils 4 km from Airport and 10 km from Ryl Station.

2. **State Wide Area Network(M.P SWAN):**
In order to get financial and social benefits of information technology the **State Wide Area Network (SWAN)** has been envisaged. The project is to provide bedrock of communication through voice, data and video throughout the State and is an effective tool for implementation of e-governance projects. The **SWAN** is to ensure the dissemination of Government services and information anytime and anywhere.

It is a reliable network for vertical and horizontal connectivity throughout the State and will reduce the cost of communication between government departments at different locations and will provide secure network infrastructure to enable electronic transfer of sensitive data, payments etc. with improved capacity for disaster management.

The MPSWAN is a highway of connectivity between G2G, G2C, G2B providing round the clock connectivity of minimum 2 Mbps between 50 districts and 313 blocks the key highlights of MPSWAN are:

- Data Communication, Voice over Internet Protocol (VoIP), Video Conferencing (VC) and selective Internet available at all Locations.
- Last mile connectivity through Lease line or ISDN.
- Last mile connectivity through wireless wherever wired line is not available.
- Guaranteed uptime of 99.5% at district & 95% at blocks

- Power backup at all locations.

3. **State Data Centre (SDC):**

Under National e Governance Plan initiated by DEiTY, Government of India, and State Data Centre (SDC) had been identified as core infrastructure for supporting e-Governance initiatives. Under the plan, all states are required to divert efforts for creating a state-of-art infrastructure for State Data Centres and to consolidate their services & applications and host in SDC for delivering electronically in a most efficient manner. These include G2G, G2C & G2B services. Madhya Pradesh State Data Centre (SDC) is setup to help the departments/ organization rendering IT related services by maximizing IT performance through reliable hosting, managing IT risk and providing continuous connectivity support. SDC's State-of-the-Art hosting environment along with the breadth of functionality and depth of expertise, provide secure, reliable and efficient delivery of G2G, G2C and G2B services thereby improving end-user satisfaction.

Madhya Pradesh State Data Centre (SDC) provides two hosting models to the various departments/ organization.

➢**Co- Hosting:** This model is suitable for small and medium organizations. In Co-Hosting the user will get the entire required infrastructure such as servers, operating system, database, SWAN and internet connectivity etc. The user can keep their mission critical systems in SDC with complete peace of mind, thereby enabling them to focus on their core businesses. The SDC would provide all the common services and managed services described ahead. Co-Hosting assures better online monitoring capabilities of systems/applications and hence increase the uptime of the application to the end-user. This model is supported by constant monitoring by highly skilled manpower round the clock using EMS tools.

➢   **Co- Location:** This model is suitable for medium and large organizations. In Co-Location the user brings their own hardware and software such as servers, storage & racks (optional), operating systems, applications etc. The SDC would provide the common services like the space, network connectivity, uninterrupted power, cooling, security etc. The user will be allowed to install his 17 hardware in the SDC. The user can also avail managed services provided by SDC. The user will get secured access to their systems remotely with the help of VPN connectivity.

Madhya Pradesh Data Centre provides services to various users are follows:

A) Common services:

▪ Physical Infrastructure Services, Rack Space, Physical Space, Staging Facility Connectivity to SWAN and Internet, Facility Management Services, Network Monitoring Services, Change Management, Vendor Management Services, Visitor Management System, Installation and Configuration of Application Infrastructure, Unified Messaging, Remote access, Security Audit, Help Desk Services.

B) Managed Services:

▪ Server monitoring, administration & management Services, Data base administration and management services, Storage administration and management services , Backup & Restore Services

4. Common service Centre (CSC):

"CSC is the front-end delivery point for Government, private and social sector services to rural citizens of India"

A Common Service Center, or CSC in short, is envisaged as a medium to improve the living standard of common man in the rural parts, by enabling electronic delivery of information, knowledge, skills and services which they need the most CSC is expected to reduce the time and cost involved in obtaining some of rural services.

5. **State Service Delivery Gateway (SSDG):**
Department of IT successfully developed these projects in Madhya Pradesh. This project is easy and convenient services to the citizens through remote access primarily through Common Service Centres (CSCs) and enabling the State Portal by implementing the key components of State Portal viz. **SSDG**, electronic form, application and computing Infrastructure.

Objectives of SSDG:
- Providing easy, anywhere and anytime access to Government Services (both Information & Transactional)
- Reducing number of visits of citizens to a Government office/department for availing the services.
- Reducing administrative burden and service fulfillment time & costs for the Government, Citizens & Businesses, Reducing direct interaction of citizen with the Government and encourage e-interaction and more efficient communication through portal,
- Promotion of uniform web interfaces across Government and build in synergies with the National Portal of India (NPI) using the National Service Delivery Gateway,
- Delivery of services through Common Service Centres (CSCs) by leveraging the common infrastructure (SWAN, SDC etc.) and development of the applications and infrastructure required for deployment of State Portal and State Service Delivery Gateway (SSDG) forth State, Publishing the static data and all information of the State departments.
Current Status –State Portal has been made live on 18-9-2013. The portal URL is www.mp.gov.in

6. **M.P Online:**
It is the most important and popular initiative of MPSEDC towards IT development in the state. The Chairman of MP Online is the Secretary (IT), GoMP for Governance, Control and Directions. There have been more than 3.5 crores transactions since the inception of MP Online Portal. The significant features of M.P online projects are as follows:
- Provide citizen services at their doorstep with special emphasis on the rural community
- Avoid citizens' visit to the Government offices
- Government Services available Anywhere and Anytime
- Transparency between Citizen and Government
- Contain delays in decision
- Reduction in transaction costs
- Least interface between Government & Citizen
- An opportunity for gainful employment across the state

7.Electronic Manufacturing Cluster (EMC) in M.P:
Electronic Manufacturing Cluster (EMC) Scheme supports creation of world-class infrastructure for attracting investments in the Electronics Systems Design and Manufacturing (ESDM) Sector. EMCs scheme supports grant assistance for setting up of both Greenfield and Brownfield EMCs. The financial assistance under the scheme is in the form of grant-in-aid only. For Greenfield EMCs the assistance is 50% of the project cost subject to a ceiling of Rs. 50 crore for every 100 acres of land and for Brownfield EMCs the assistance is up to 75% of the project cost subject to a ceiling of Rs. 50 crores.
In MP Department of Electronics and IT (DeitY) has accorded final approval to green field to two EMCs in MP. The Proposed EMCs are at – Bhopal and Jabalpur.

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1.	BASIC DEVELOPMENT, ESSENTIAL & GOVT. REGULATORY SERVICES	Boundary Wall, Internal Roads, Drainage and culverts, Footpaths and Pathways, Retaining Walls, Cutting Filling and Consolidation, Sewage Network Septic Tank, Water Supply, Horticulture and Landscaping, Park development, Power Supply, DG Sets, Administration Block
2.	MANUFACTURING SUPPORT FACILITIES	Testing & Calibration Centre, R&D EMI/EMC, CAD / Cam Design House/Plastic Molding/Sheet Metal Stamping/Tool Room etc.
3.	OTHER SUPPORT FACILITIES	Trade Pavilions with Centralized AC Facility, Telecom / IT Infrastructure & Video Conferencing
4.	WELFARE FACILITIES	Local Shopping Centre, Restaurants, Canteen, Horticulture and Landscaping, Park development, ATMs.

Conclusion

Technological innovation and Information Communication Technologies (ICTs) represent a way for developing world nations to foster economic development, improve levels of education and trainings. With the introduction of computers, the business world was changed forever. Using computers and software, businesses use information technology to ensure that their departments run smoothly. They use information technology in a number of different departments including human resources, finance, manufacturing, and security.

MPSEDC facilitate e-governance projects that are aimed at transforming the delivery of IT related services providing an opportunity to its employees and associates to get a chance to work in areas that will have a statewide impact. It is a platform for employees to enhance their skills and achieve outstanding results. **MPSEDC** is a great place to work due to intellectually vibrant workplace, Emphasis on Employee Recognition and Shared passion for success. IT projects of GoI & GoMP in Madhya Pradesh viz development of IT PARKS, EMCs, infrastructure development for BPO UNITS, SWAN, CSC, SDC, SSDG etc which are in progress.

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