

Chandigarh

IT Pulse

For internal circulation only

January 2010



Quarterly Newsletter from Society for Promotion of IT in Chandigarh (Under the aegis of Department of Information Technology, Chandigarh Administration)



ITPulse

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Printed and Published by
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Chandigarh
ITPulse
July 2008

IT Talk

Over the years, Chandigarh has made remarkable progress in terms of physical infrastructure, business environment, and as an emerging economic growth centre especially as an IT hub. Some of the major IT initiatives planned by the Administration over the last 5 years have shown excellent results and to name a few, these include Rajiv Gandhi Chandigarh Technology Park - a world class IT Park; Project e-Sampark - a nationally acclaimed and award winning e-Governance initiative; Cyber Security Research Centre - an innovative tie up between IT Industry, Academia and Administration in the cyber security area; and Entrepreneurs Development Centre - a project targetted to the growth of entrepreneurship in IT in the region

Whereas the RGCTP propelled the growth of annual software exports from the Union Territory from Rs 91.83 crore in 2005-6 to Rs 747.97 crore in 2008-9 apart from providing direct employment to 10000 professional, the establishment of e-Sampark Centres, started in 2004, gave a major relief to the citizens in terms of quality of service, transparency and saving of time. The total revenue collected from these

Centres was Rs 25 crore in the 2004-05 to Rs Crores in 2008-9. The other projects namely the Cyber Security Research Centre and the Entrepreneurs Development Centre have been targetted for the capacity building of the human resource in the area of cyber security as well as promotion of the entrepreneurial eco system in the region. The Department of IT also started a programme - CTOSS for enhancing the soft skills in the Colleges later on extended to Government Schools. This programme was started in 16 Schools in 2006 was extended to 55 Government Schools in 2009, after it received a stupendous response. In order to bridge the digital divide, CITROP initiative was launched to enhance the skill set levels of the disadvantaged.

As a part of the Vision of the Administration to leverage the use of IT for the betterment of the common man, the Department hopes to conceptualise more such innovative programmes in the coming years.

Manjit Singh Brar
CEO-SPIC

Entrepreneur Development Centre Foundation turned into reality

Another milestone to provide a strong support system for modernization and to nurture brilliant ideas of our talented youth was added in the Rajiv Gandhi Chandigarh Technology Park, with the inauguration of the ambitious project of Entrepreneur Development Center (EDC) by the Punjab Governor and Administrator, UT, Chandigarh, General (Retd.) Dr. S.F. Rodrigues, PVSM VSM on November 12, 2009. It may be recalled that the Administrator had laid the foundation stone of this four-storeyed new model of IT growth built on a plot area of 67930 sq. ft., on September 5, 2007. This project jointly funded by the Government of India, Ministry of Commerce and the Chandigarh Administration aims to enhance the export of software from Chandigarh and to assist young professionals in setting up entrepreneurship and to develop their potential and capabilities in a state of the art environment and in an intelligent building. Honorable Governor said on the occasion that it was conceived to translate the vision of making Chandigarh as a symbol of Modern India by Pt. Jawaharlal Nehru and to empower local talent and make them Role Models. He said that the completion of the second phase of IT Park, of which this project is a landmark addition, will provide 37,000 jobs to professionals and skilled and unskilled people from the region. Emphasizing the need for integrating the professional network and skilled development programmes with the upcoming Education City. This endeavour will contribute in creating a complete reservoir of knowledge and human experience. General Rodrigues said that 'We are stakeholders in India's future and it is our responsibility to provide opportunities to our youth, who are the pillars of our nation, to enable them to contribute to the New India and take it to prominence in the comity of Nations'. He asked TiE to set up a core group, in collaboration with the Administration, to ensure that the objective behind the setting up of this ambitious project are fulfilled with no dilution or deviation at any stage in bureaucratic wrangling.

Mr. Manjit Brar, Director IT said that the EDC would be a state of the art building, where small and medium sized IT companies would occupy built up space for software development, R&D and other high value services, which will be for export purposes. The EDC project will also become a big software export centre, apart from providing readymade space to young entrepreneurs who have bright ideas, but don't have the capital to create infrastructure.

The building designed is futuristic, service oriented and has a global image. State of the art materials like reflective double insulating glass, energy efficient and globe conscious icon have been used. The building has evolved as a form which merges old yet elegant construction material i.e. concrete & a modern construction material i.e. glass, thus making an impact and statement of its own. Terraces have been planned as significant design elements providing opening feeling to each and every office. Mr. Puneet Vatyasan, President TiE welcomed the Chief Guest. Senior officers who were present on the occasion included Mr. Ram Niwas, Home Secretary, Mr. Surinder Pal, Chief Engineer and Ms Sumit Kaur, Chief Architect. The function attended by eminent IT giants, professionals and technocrats

General Rodrigues honored the final 6 entrepreneurs which were selected for space in the EDC after going through a three stage filtering process.



5 years of e-touch with Department of Information Technology



ISO-9001:2000 Certification

The Department of Information Technology, Chandigarh received ISO-9001:2000 Certification. The Department, has been working in consonance with the vision of the Administrator, Gen(Retd.) Dr. S.F. Rodrigues, PVSM, VSM Chandigarh and Governor of Punjab, so as to introduce total quality management practices to the functioning of the administration



National e-Governance Award

The Department of IT, Chandigarh Administration has been awarded with CSI-Nihilent e-Governance Award in 2004 for Best Governed State.

The Department of IT, Chandigarh Administration has been awarded with Golden Icon National Award in 2005 for Professional Excellence in Re-engineering (Sampark Project).

The Department of IT, Chandigarh Administration has been awarded with National e-Governance (Silver Icon) Award in 2008 for Best Government website.



Championing the IT Revolution

Five years back the Chandigarh was still struggling to find its place in the IT world when the champion of the region's development, Gen.(Retd) Dr. S.F. Rodrigues, Governor of Punjab and Administrator of UT Chandigarh, appeared on the scene as a champion to catapult city on to the world IT map. The mandate was clear...empower the entrepreneurs through an enabling governance. There could not have been a better model but of engaging the successful IT icons in creating an ecosystem in public-private partnership, a mission that Gen Rodrigues espoused right from the time of his taking over as the Governor of Punjab and Administrator of UT Chandigarh. He always spoke with the key industrialists, business people, professionals, seeking their cooperation to work together for the larger good and ensure an inclusive growth for all sections of the society.

CHANDIGARH
@-Revolution
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It was this vision and mission with which Gen Rodrigues encouraged the initiative of Chandigarh's Information Technology Department to provide a platform engaging world's well known brains, and the professional bodies like Nasscom, Indian Angels Network, The Indus Entrepreneur, to prepare a road map for the development of Chandigarh, Mohali and Panchkula region.

In 2005, the Chandigarh Administration organised the first eRevolution, a mega IT event in the country that brought together the IT entrepreneurs on a single platform who not only encouraged the young business people in the region to explore immense potential that IT offered in the world arena but also provided a clear mandate for the governments to create an enabling ecosystem to encourage such enterprises. eRevolution was not a Chandigarh event. Right from the beginning Gen Rodrigues thought of it as a boundaryless initiative and looked at the tricity involving Chandigarh, Mohali and Panchkula in this initiative.

The event remains a joint effort of the three governments of Punjab, Haryana and UT Administration. The then Nasscom head, Mr Kiran Karnik, pointed out at the lack of connectivity and the cyber security as primary factors for this region's growth. The 2005 eRevolution therefore focussed on "ICT: New Frontiers for Business and Government" that set the agenda and addressing the

participants, Gen Rodrigues reiterated the need for guaranteeing accessibility of information for the common man for an efficient, transparent and reliable governance.

In 2006, the eRevolution looked at the larger challenges of "Creating value in the business ecosystem" where Gen Rodrigues again very rightly stressed upon the need to identify areas of common interest that could benefit the common man and the people in the region to bridge the digital divide and create value for them.

In the third conclave, the scope of discussions widened with 2007 eRevolution addressing the theme of "Achieving Excellence through 360 degree approach". Gen Rodrigues did not mince words when he asked the IT bigwigs for a collective and concerted efforts to create a sustainable and transparent environment, employment opportunities for the youth, and making them employable through appropriate skill development.

In 2008, the event looked at new opportunities in the IT gamut and brain stormed on the issues of "The Changing Landscape- Creating new trends and opportunities".

In the recently held conclave, the fifth in the series, the IT world is looking at a still larger picture of "Transforming Region: Harnessing Technology for Inclusive Growth", in a way, recapping Gen Rodrigues's mission to make IT as a

tool for transforming the lives of the people in the region through new entrepreneurship and employment opportunities.

In the past five years, the discussions and debates on various vital issues of infrastructure, connectivity, knowledge and skill upgradation, have been followed up with utmost commitment and dedication with Gen Rodrigues overseeing and ensuring the timely implementation. In the last five years alone, the public private partnership has fructified into creation of vital support system and an enabling environment that encourages new positive initiatives. Not only the connectivity to the city has improved through new rail, road and air links, numerous other initiatives like soft skill programmes, establishment of eSampark centres, have added to the value-upgradation of this tricity region which will benefit even other peripheral towns including Baddi, Parwanoo, Nalagarh areas in Himachal Pradesh.

The eRevolution has indeed been a revolutionising step that Gen Rodrigues envisioned to attract new investments, making the region friendly, exciting and enriching for the families of the professionals and entrepreneurs migrating to the area, and making it worthwhile for the youth of the region to find gainful employment in the IT and ITES industry.



SPIC

The Society for Promotion of IT in Chandigarh (SPIC) incepted under the aegis of the Department of Information Technology, Chandigarh Administration in 2001 since then its playing a significant role in the field of Information Technology in Chandigarh and pivotal role in three main components of the IT policy – to promote the software services and IT enable services Industry in Chandigarh, up gradation of Human Resources and creation of IT infrastructure in Chandigarh.

SPIC came into existence with setting up of SPIC- Microsoft Centre of Excellence Centre in Punjab Engineering College, Sector 12, Chandigarh which was established in association with Microsoft with objective to provide quality training for development of HR, provide customized computerized solutions to departments, to promote small IT/ITES Industry in Chandigarh and development of IT infrastructure. This Centre since then is working towards building skilled resources for IT and ITES / BPO industry, providing expertise in technical consultancy, developing customize applications for UT departments and promoting and facilitating small and start up IT/ITES companies through SPIC Incubation Centre.



SPIC IT Incubation Centre

In order to promote small IT/ITES companies SPIC started a innovate and unique way to provide support services to assist young professionals in setting up their entrepreneurship and for the start up of small IT/ITES companies in one convenient location by providing space in Chandigarh at SPIC IT Incubation Centre situated in Punjab Engineering College, Sector 12 to enhance software exports from Chandigarh. It has a built up space of 15,000 sq feet where shell space is provided to the

small IT/ITES companies where they have been provided internet bandwidth connectivity by STPI for software export. The IT Enterprise Development Centre was the first of its kind in North India, and was set up in order to encourage young entrepreneurs /IT companies to set up their facilities in Chandigarh. Space is given to IT companies on lease and they shift to other locations within 2 to 3 years, after establishing themselves.

C-TOSS

Administration took a major initiative in the sphere of human resource development through the start of the Chandigarh Training on Soft Skills program. Objective of the C-TOSS program is developing and aligning the talent pool of Chandigarh to the industry needs and making the UT a destination of choice for the knowledge focused growth industries. Chandigarh Administration appointed Hewitt Associates as an HR consultants to conduct analysis/survey of Human Resource in Chandigarh and their study finding suggested that to make Chandigarh a major center for IT Enabled Services, by attracting a substantially large share of the ITES industry in India. The Chandigarh Training on Soft Skills (C-TOSS) started in 2004 collaboration with BPO / ITES industry and professional Training Agencies by SPIC in six colleges and Six Schools to start with. Its now running successfully in 8 colleges and 55 Govt. Schools of Chandigarh with annual expenditure to the Government of Rs 107.92 lacs.

C-TOSS for Underprivileged Society: In an endeavour to create an eco system which can nurture the under privileged children with English language proficiency an initiative was taken by starting a free soft skills programme for the children of underprivileged and minority community at Bal Bhawan Sector 23 and students of Madrasa, Manimajra in association with United Progressive Muslim Front to enhance their communication skills. This program is a comprehensive program where initially students are trained to improve their basic English level and there after upgraded to the existing C-TOSS School program.



Companies @SPIC IT Incubation Centre

| S.No. | Company Name | Operations | Employee Strength |
|-------|-------------------------|--------------------------|-------------------|
| 1. | Outline Systems | Software Development/BPO | 80 |
| 2. | Pole Vault Technologies | Software Development | 3 |
| 3. | Accelcia | BPO/ITES | 17 |
| 4. | Seamless Software | BPO/ITES | 50 |
| 5. | Visions | ITES | 15 |
| 6. | Aptitude | ERP | 6 |
| 7. | e-Reliant | ITES | 4 |

Facts & Figures of C-TOSS School program

| Year | Number of School | Number of Students Trained | Expenditure incurred by Administration |
|---------|------------------|----------------------------|--|
| 2004-05 | 06 | 900 | 2.5 lacs |
| 2005-06 | 19 | 2840 | 7.19 Laes |
| 2006-07 | 20 | 5870 | 39.63 Laes |
| 2007-08 | 38 | 10165 | 89.99 Laes |
| 2008-09 | 48 | 12056 | 107.92 Laes |
| 2009-10 | 55 | 11222 (till date) | 71.93 laes (till date) |

Facts & Figures of C-TOSS program for Underprivileged Society

| Year | Number of Students Trained | Expenditure incurred by Administration |
|---------|----------------------------|--|
| 2007-08 | 279 | 3.20 laes |
| 2008-09 | 425 | 4.80 laes |
| 2009-10 | 315 (till date) | 3.60 laes (till date) |

NAC Test (NASSCOM Assessment Competence Test)

The Department of Information Technology through Society for Promotion of IT in Chandigarh (SPIC) in association with NASSCOM, to create talent pool for the industry and to attract industry to this region UT Administration has taken an initiative by adopting NAC Test at a cost of over 40 Lakhs. Administration has sponsored the entire fee of all the candidates who sat for the NASSCOM Assessment of Competence (NAC) test from Chandigarh.

NASSCOM®

Industrial training programme



C-TOSS programme



NAC Test



CITROP

In an endeavour to create an eco system which can nurture the under privileged children with computers and English language proficiency CITROP programme was started in Bhal Bhawan Sector 23, Chandigarh in June 2007. The computer centre for under privilege children, setup by ICCW U.T. Branch at Bal Bhawan Sector 23 & in Madarasa Manimajra, Chandigarh in collaboration with Infosys Chandigarh and SPIC. Programme was inaugurated by His Excellency, the governor of Punjab and Administrator U.T. Chandigarh, Gen. (Retd.) Dr. S.F. Rodrigues. Administration is spending Rs 5.73 lacs on this programme annually on this program.

Facts & Figures of CITROP program

| Year | Number of Students Trained | Expenditure incurred by Administration |
|----------|----------------------------|--|
| 2007- 08 | 765 | 4.25 lacs |
| 2008 -09 | 820 | 5.88 lacs |
| 2009- 10 | 445 (till date) | 3.59 lacs (till date) |



Chandigarh IT
Reach Out Program



Cyber Security Research Centre a success

Deriving the deep concerns from the threats of the Information Security Gen(Retd.) Dr. S.F. Rodrigues, Administrator, Chandigarh and Governor of Punjab had taken the lead to set up a Cyber Security Research Centre with the mission to provide technology and solutions to protect information systems against threats to the confidentiality of information, integrity of information, and availability of information and services in order to build confidence in Information Technology systems. Punjab with its encouraging policies is fast emerging as the most favored business and investment destination for IT and BPO companies. As a part of its endeavour to promote research and to create a technology rich environment conducive for constructive discussions and innovative ideas for further strengthening the security environment in the country, Gen.(Retd.) Dr. S.F. Rodrigues, Administrator, Chandigarh and Governor of Punjab envisioned setting up the first a unique first of its kind Research centre having a consortium of industries, academia and administration has been established to provide research, training and advice to the various stakeholders. The Centre was established on March 19, 2009. The Centre had been set up with the mission to encourage, promote, facilitate and execute interdisciplinary research in areas of Information Security which are related to the nexus of the society and the digital world. The Centre collaborates with a number of national and international agencies and standards bodies to develop secure, interoperable security standards. The Centre pioneers in bringing together academia, government, and industry to explore all aspects of information security and trust. The Centre calls on organizations to make information security governance a priority and to use these tools to launch internal information security governance processes and generate awareness of the need to treat information security as a governance issue. The Center is also focusing on research in key technologies in the areas of cyber security which are related to preparation for and response to emergencies at national, state and local levels. The Centre is tightly coupled with academics and industry in understanding the information security related issues and hence finding out solution with a holistic approach.



CSRC
Cyber Security Research Centre

The Cyber Security Research Centre, Chandigarh is extending support in enhancing investigating skill levels of the police organizations by extending partnership with state police in organizing various training programmes for police officers of the rank of Asst. Sub Inspector, Sub Inspector and Deputy Sub Superintendent of Police on investigation techniques. The Centre has trained over 175 police officers from Chandigarh & Haryana.

Training programmes for Defense Personnel has also been conducted for countering cyber terrorism and cyber attacks. The Centre is also instrumental in drawing sectoral Crisis Management Plan for U.T Administration for countering cyber terrorism.

Amongst other outreach activities the Centre has also been conducting joint workshops for educating consumers for preventing financial & cyber frauds. Dissemination of information related to Cyber Security has been done aggressively to increase community awareness of security technology, challenges and solutions. Special Cyber Safety events have been extensively organized in various schools as a part of Extension Services to spread awareness. The Centre has also successfully executed several projects to solve various research issues in the area of cyber security and wireless security. The research centre is facilitating research work students and researchers in the concerned areas so that high quality results could be disseminated through journals and conference publications of international repute, technical reports, and public domain software. Based on the research work at CSRC, more than 20 publications have been published in various national & International Conferences.

Projects Successfully Completed in the last Quarter in Cyber Security Research Centre File Integrity Checker

A tool has been developed which can check the integrity of various files being uploaded on the website. Many a time's files are uploaded on websites to be made available for public download. However such files get infected with malicious malware and hence a user ends up downloading a file which is infected on corrupted due to several reasons. These tools can be integrated with the website. It calculates the integrity of the files uploaded. The users can then compare the hash values to find out the integrity of the files before downloading. The standalone desktop version of the tools is also available to manually compute the integrity of the files.

Detection of Spoofed E-mails

A tool has been developed for detecting spoofed e-mails. The user of the tool would specify the e-mail to be checked and our tool would report whether the email has been spoofed or not. E-mail spoofing is a technique commonly used for spam e-mail and phishing to hide the origin of an e-mail message. By changing certain properties of the e-mail, such as the From, Return-Path and Reply-To fields (which can be found in the message header), ill-intentioned users can make the e-mail appear to be from someone other than the actual sender. The result is that, although the e-mail appears to come from the address indicated in the From field (found in the e-mail headers) it actually comes from another source.

The user interface provided is Microsoft outlook. The tool requires Internet connectivity while checking the header of the email. The tool can be used as a standalone tool on desktop or can also be integrated with the website and hence can be offered an online service.



The winning e-dge: the Sampark project

In an attempt to make governance more accessible and more open, the Administration had launched the Sampark project in 2004. Administration had taken this initiative as part of its strategy to bridge the digital divide and to provide an efficient information dissemination system to the citizens for availing government services.

The Sampark Project under the Department of Information Technology has completed five successful years in which it has been able to provide one-stop-shop for 23 G2C (Government to citizens) and 5 B2C (Business to citizens) services. The Sampark Centres have seen the translation of the Administration's mission of IT for society into a reality.

Since its launch in September 2004, Rs 2,374 crore of government revenue has been collected in 80.7 lakh transactions and around 2 lakh transactions per month are being recorded from these Centres.

Following are the objectives of the Sampark Projects:

- Provide hassle free one-stop solution to the citizen
- Minimize multiple interaction points for the citizen and hence reducing the wastage of their valuable time
- Provide better turn around time in receipt, processing and issue of services
- Transparency in delivery of services

e-Sampark

- Services provided free of cost from Mon-Sat from 8AM to 8PM.
- 22 G2C and 5 B2C services are being provided at 10 centres spread across the city.
- 2 lakh transactions being recorded per month
- From April '09 to Dec'09 17 lakh transactions recorded in which revenue of Rs 751 cores collected.



e-Jan Sampark

- Emphasis on information delivery by providing services at the doorsteps of common man.
- Services available through 10 e-Sampark centres, 13 gram Sampark centres and 1 e-Jan Sampark kiosk.
- 31 more e-Jan Sampark kiosks shall soon be operational across the city.
- Citizens can also avail services like lodging grievances, submit RTI application and take appointment in Government hospitals.



e-JAN SAMPARK
INFORMATION & FACILITATION KIOSK



Gram Sampark

- Serve as Rural Knowledge Centres to bridge the digital divide
- 13 centres operational to make life simpler for the villagers
- All e-Sampark and e-Jan Sampark services are being provided.



Taking this now one step forward the Department of Information Technology is in the process of selecting a new System Integrator, which is a third-party agency that provides the manpower for the various sampark centers. The Department of Information Technology has created a portal to involve the citizen of Chandigarh in improving the work of the sampark centres. The residents of the city can mail their suggestions and feedback at sampark@chd.nic.in or visit <http://chandigarh.gov.in/smpk-suggestion.asp> to improve the functioning of the centres and improve

the level of services offered across the various e-sampark/gram-sampark and jan-sampark centres as well as to introduce new services.

The department plans to add some new services to the offerings of the sampark centres in the coming months. These might include issuing of PAN Card, Certificate of Domicile, issuance of character certificate/ caste certificate, issue of ration cards, payment of property taxes etc. New centers are likely to come up in Sector 35 D, Sector 37 D, Sector 39 D, Sector 49 D and Sector 56.

Facts & Figures of Sampark Project

| | Sept 2004 - March 2005 | April 2005 - March 2006 | April 2006 - March 2007 | April 2007 - March 2008 | April 2008 - March 2009 | April 2009 - Dec. 2009 |
|--|---------------------------|----------------------------|----------------------------|----------------------------|----------------------------|---------------------------|
| No. of Services | 6 G2C | 11 G2C | 18G2C 4B2C | 20 G2C 4 B2C | 22 G2C 4 B2C | 23 G2C 5 B2C |
| No. of Sampark & Gram Sampark Centres | 3 | 8 | 12 | 16 | 24 | 24 |
| No. of Transactions | 2 Lac | 11 Lac | 15 Lac | 17 Lac | 21 Lac | 17 Lac |
| TOTAL REVENUE COLLECTED | 25 Crore | 239 Crore | 354 Crore | 403 Crore | 770 Crore | 751 Crore |



RGCTP- the success story



Keeping in view the farsightedness of the Chandigarh Administration to develop Chandigarh as a technology hub, a visionary project, namely, Rajiv Gandhi Chandigarh Technology Park (RGCTP) was inaugurated by Dr Manmohan Singh, Prime Minister of India in September 2005. RGCTP, an ISO 9001:2000 certified Technology Park is presently a home for more than 60 companies with nearly 10,000 employees. It has changed the economic scenario of the city and the vicinity by facilitating the growth of the economy, especially in the Services sector.

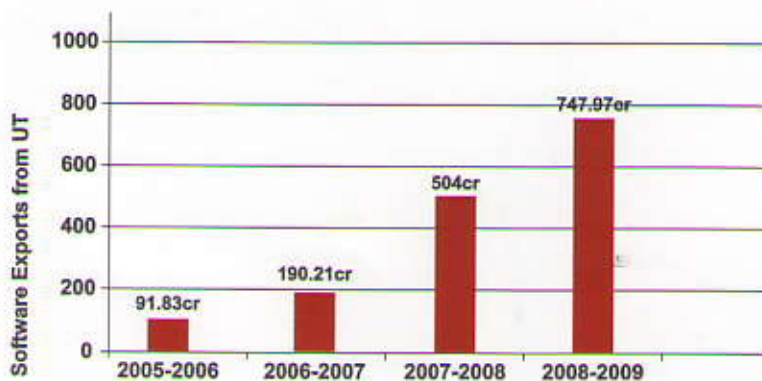
RGCTP has been planned to retain this upgraded human capital by providing them employment opportunities here itself. Five years after inauguration of the RGCTP, an assessment of the current state of development of the RGCTP indicates that the objectives have primarily been achieved.

DLF Infocity Developers Ltd. has leased their premises to more than 40 companies from which nearly 6000 professionals are operating, some of the prominent corporate brands are Altruist, Basware, Digiblitiz, IBM, Ind-Sigma, Infosys, Net Solutions, N-Vish Solutions, QA Infotech, Security Weaver, TechMahindra etc.

Whereas, Infosys alone employees more than 3000 professionals in their SEZ campus. It has been envisaged that while Phase I and II would generate 30,000 plus direct jobs, Phase III alone would generate 32,000 plus direct jobs. As such, the total employment potential of the RGCTP as a whole is 62,000+ direct jobs. Further, every direct IT job creates 3 indirect jobs. RGCTP is a major contributor of software exports from this region and the following figures will substantiate the gains from this project. Moreover, if the figures for the current year are taken into consideration it can be seen that the growth rate of software exports from RGCTP alone has been

more than 60% among the tricity. The above figures are when only companies in DLF & Infosys are in operation. Recently, Entrepreneur Development Centre, TechMahindra & Bharti Airtel got inaugurated, and some more BTS sites are expected to be operational by March 2010, which will further excavate the above export figures. There are total 15 Built-to-Suit sites in Phase I excluding Infosys Technologies and DLF, whereas there are 4 Built-to-Suit sites, 2 campus sites and 1 Main Campus site in Phase II of RGCTP.

Apart from IT companies, an international standard hotel-cum-convention centre (for 1200 people) is also coming up on 4 acres of land, which is anchored by DLF and Lalit Group. To keep the employees of RGCTP companies relieved from the stress and rejuvenate them, meditation centre having recreational activities like yoga shall be made available at adjoining forest area. Few small huts shall be made in the forest area where people can relax and revitalise after stressed workout. Further, the Forest Department would undertake the development of the said area and create nature walks, meditation huts etc and any other changes pertaining to the landscape as permissible under the Forest Laws.





**RAJIV GANDHI
CHANDIGARH
TECHNOLOGY PARK**



DLF Campus

It has built up a state-of-the-art building on 12.5 acres plot having a covered area of 6,00,000 sq.ft. Nearly 40 companies are presently operating from DLF campus & has more than 6000 employees.



Infosys Technologies Ltd.

The only company in SEZ Phase I spreading over 30.12 acres with state-of-the-art building having recreational facilities for their employees. Fully operational & has nearly 3000 employees.



Tech Mahindra

The campus has come up in SEZ area on 15 acres. The Ground Floor is already operational where nearly 500 people are working. Once complete, it will employ more than 3000 people.



Bharti Airtel

The campus has come up on 5 acres land in non-SEZ area and is operational. Presently, more than 650 people are working from the campus.



Microtek Intl. Pvt. Ltd.

It was allotted land in January 2006. As on date, all four floors are already completed. Their building is expected to be operational by March 2010.



Amadeus

Structure of the building is already completed, flooring & finishing work is going on. Building is expected to be operational by March 2010.



Net Smartz

The structure of the building is already completed. The building is expected to be operational by March 2010.



RT Sourcing Services Ltd.

Structure of the building is already ready. The building is expected to complete by March 2010.

The march to IT Excellence in Chandigarh

Gen (Retd) Dr. S.F Rodrigues ,
PVSM, VSM Governor Punjab & UT
Administrator speaking at the
inaugural function of e-Revolution
2007 held at Taj Chandigarh



Gen (Retd) Dr. S.F Rodrigues ,
PVSM, VSM Governor Punjab & UT
Administrator with Mr Keshub
Mahindra, Chairman , Mahindra &
Mahindra Ltd and Mr. Vineet
Nayyar, MD, Tech Mahindra, during
the foundation stone laying
ceremony of Tech Mahindra
Campus at RGCTP (left) &
inaugurating newly built campus of
Tech Mahindra at RGCTP (right)



Gen (Retd) Dr. S.F Rodrigues ,
PVSM, VSM Governor Punjab & UT
Administrator inaugurating
Gram-sampark Centre at
Kaimbwala Village on
5th September, 2007



Gen (Retd) Dr. S.F Rodrigues ,
PVSM, VSM Governor Punjab &
Administrator interacting with the
residents of Kaimbwala village at
the Inauguration of Gram -Sampark
Centre at Kaimbwala Village
Chandigarh



Gen (Retd) Dr. S.F Rodrigues ,
PVSM, VSM Governor Punjab & UT
Administrator signing agreement
with Kiran Karnik, Chairman
Nasscom for setting up the Cyber
Security Research Centre at Punjab
Engineering College Campus ,
Sector 12, Chandigarh



Gen (Retd) Dr. S.F Rodrigues ,
PVSM, VSM Governor Punjab & UT
Administrator inaugurating
Gram-sampark Centre at Khuda
Jassu

Gen (Retd) Dr. S.F Rodrigues ,
PVSM, VSM Governor Punjab & UT
Administrator with Captain
Amarinder Singh, Former CM,
Punjab at the inaugural function of
e-Revolution 2006 held on 20th
July, 2006 at Taj, Chandigarh



Gen (Retd) Dr. S.F Rodrigues ,
PVSM, VSM Governor Punjab & UT
Administrator inaugurating
e-Revolution 2008 event held at
Taj, Chandigarh



Gen (Retd) Dr. S.F Rodrigues ,
PVSM, VSM Governor Punjab & UT
Administrator addressing the
audience during the inaugural
function of e-Revolution2008 held
at Taj, Chandigarh

Gen (Retd) Dr. S.F Rodrigues ,
PVSM, VSM Governor Punjab &
UT Administrator inaugurating
9th e-Sampark Centre at Sector 40,
Chandigarh



Gen (Retd) Dr. S.F Rodrigues ,
PVSM, VSM Governor Punjab & UT
Administrator inaugurating the
3rd Annual IT awards Ceremony
held on 11th January 2005 at CII,
Chandigarh



NeGP Projects under National e-Governance Plan

The Government of India has approved the National-e-Governance plan(NeGP) that seeks to lay the foundation for long-term growth of e-governance. Chandigarh Administration has prepared strategic e-governance and capacity building road map for the city. The basic strategy of the UT administration will be to transform Governance to e-Governance for e-society, which is to set out an agenda for the Governance by transforming Chandigarh into e-society through quality services for all, and by improving access of the citizens to all services.

Over the last 5 years Information Technology playing a pivotal role in social transformation and improving the service delivery systems. Information Technology is an extremely effective tool through which development and progress can take place with the co-operation of all strata of society including government and the public. The vision of Chandigarh Administration is to create a knowledge-based society through extensive use of Information Technology. The ultimate goal is to use I.T. as a medium for effective interaction between the Administration and the public so that exchange of information and access to government departments is speedy and easy, leading to a better quality of life.

Chandigarh Administration has shown commitment in by providing a responsive and effective administration through implementing various IT projects which has really empowered administration to be responsive and administer effectively.

Key IT Projects

1. Chandigarh Administration Intranet Portal

- Intranet Portal comprising multiple applications such as File Monitoring System, Court Cases Monitoring System, Project Monitoring System, Integrated Scheme & Budget Monitoring System, Rent Controller System, Forms & Procedures for Govt. employees, etc. for all departments of Chandigarh Administration

2. Common Integrated Police Application (CIPA)

- Automation of all the functions carried out by Police stations
- All the 11 police stations running the application and connected to police Headquarters through Managed Leased Line Network.
- significant reduction in manual records/register maintenance, elimination of duplicate and inconsistent record keeping, facilitate maintenance of details of criminals, keep track of the status of cases and faster response to public.

3. District Court Information System

- Operational since November 2007.
- Connectivity provided to all 20 courts by installing 50 systems and Printers connected to the 2 central servers
- LAN established in the 2 buildings which are connected through fibre.
- Complete backlog cases entry done and cause lists, judgements, orders etc are being generated through the software
- System is being used by the Nodal officer for MIS related activities to monitor the progress of the implementation.
- Status also reflected on the website <http://chddistrictcourts.gov.in>

4. SARATHI and VAHAN for RLA office

- Standardized software which establishes uniform implementation of Central Motor Vehicles Act and Rules and also lead to standardisation of various coding patterns
- SARATHI implemented in July 2007 and presently testing of VAHAN in progress
- STALL Module for Learner Licence Test also implemented
- SCOSTA compliant smart card based licences generated with Key Management System to ensure authenticity and security

5. Property Registration for Sub Registrar Office

- Facilitate seller/purchaser with biometric and photograph based registration

6. Smart Card Based Ration Cards for PDS

- Chandigarh UT identified as Pilot.
- DPR for the project submitted to the Ministry which has been approved.
- Software to be developed by NIC and the formats are being finalised.
- Subsequently to be replicated across the country.

7. Labour Court and Industrial Tribunal Computerisation

- Web based application
- Complete backlog entered
- Cause list, orders, judgements are being generated

State Consumer Disputes Redressal Commission

- LAN established in the state commission and 2 district fora
- Web based application taking care of cause list, daily orders, judgements etc
- Status also reflected on the website <http://chdconsumercourt.gov.in>

9. Dharohar

- MIC for Chandigarh Museum and Art Gallery

10. E-Granthalaya

- Library automation software implemented in various colleges and other educational institutes.

11. National Knowledge Network

- Establishment of network in Chandigarh comprising of 4 nodes connectd to NDC

12. System for Value Added Tax (SVAT)

- ONLINE RETURN FILING is an interactive and user friendly platform for dealers to file their quarterly return online and for department to monitor the eFiling of VAT returns. It provides flexibility and step-by-step guidance to help the dealer to enter the quarterly return details.

Chandigarh Portal

- Design, development, hosting and maintenance of number of websites.

14. e-Procurement

e-Procurement is a Mission Mode Project of Govt. of India under NeGP. The e-Procurement solution, which is developed by National Informatics Centre, for Chandigarh Administration is under implementation stage. Initially three departments i.e. Chandigarh Housing Board, Engineering Department and Municipal Corporation, Chandigarh, have been selected for the implementation of e-Procurement project and thereafter the same will be replicated to the rest of the Departments of Chandigarh Administration.

“Are you who you claim to be?”

Biometrics Today!

This is a question that is increasingly being asked of individuals by governments and business organizations in their bid to fight fraud, organized crime and terrorism, as well as to combat illegal immigration. Biometrics technology using advanced computer techniques is now widely adopted as a front-line security measure for both identity verification and crime detection, and also offers an effective crime deterrent.

Biometrics—the automated recognition of people via distinctive anatomical and behavioral traits—has the potential to overcome many of these problems. Compared with a physical token such as a bank card or with the knowledge of a secret such as a PIN, biometric traits are profoundly more difficult to forge, copy, share, misplace or guess. Indeed, they offer the only way of determining whether a person has been issued multiple official documents, such as a driver's license or passport, under different names. Yet they are quite easy to use as proof of identity. For these reasons, biometric systems have been gaining popularity in recent years.

The Unique Identification Authority of India (UID) headed by Infosys cofounder Nandan Nilekani, is the first in a series of transformation projects in India, as the government plans to spend up to Rs 40,000 crore over next few years on Information Technology (IT). A national database for maintaining health records for patients, IT-led modernization of India Post, a massive telemedicine project and a sophisticated technology platform for automating and integrating municipal councils across the country are among some areas where the government has already started pilot projects. Identification will be through biometric characteristics: probably multiple-finger prints as also face. To ensure non-duplication, the system must be capable of comparing each new set of biometrics with those already stored — which will ultimately be hundreds of millions — so as to determine if it is unique.

Biometric systems require traits with two basic features: they must be unique for each person, and they must not change significantly with time. Some traits promote relatively high accuracy, others greater practicality or relatively low cost. The choice of trait to favor as an identifier therefore depends on the goals of the ID system. No single measurement is optimal for all applications.

Consider the three most popular biometrics in use today: the fingerprint, the face and the iris. Fingerprint recognition forms the basis of automated border-control systems in a number of countries. From a commercial standpoint, one of the biggest advantages of using fingerprints is that the sensors for capturing prints are now extremely cheap and small enough to be embedded in consumer products such as laptops, mobile phones and even USB memory sticks. But these compact and economical sensors have higher error rates than their larger, more expensive counterparts common in law enforcement, because they scan a smaller portion of the finger and the image they record is lower in resolution and also consuming less storage. These sensors may also be unhygienic and pose high

danger in case of epidemic conditions such as swine flu.

Face recognition is gaining popularity as a security feature for computers and mobile phones, partly because it can take advantage of the built-in cameras that are becoming essential components of these devices. ID systems based on face recognition are quite accurate when the images are captured under controlled conditions—with the subject facing forward in indoor lighting and bearing a neutral expression, for example. They falter, however, when the original image and the newer one differ because of changes in pose, lighting, expression, age, and facial accessories such as glasses or a beard. It can also be fooled easily for eg: by showing a face on a laptop in front of camera.

As for the iris recognition—whose complex, textured pattern is thought to be unique to each person as well as permanent—recognition is extremely accurate and swift. The subject simply looks into a scanner for a few seconds; the captured pattern is then analyzed and recorded. The speed and accuracy of this approach have driven the recent development of large-scale ID systems based on the iris, including the Iris Recognition Immigration System (IRIS) in the U.K. Travelers enrolled in system's database can sidestep the usual immigration channels at the airport, thereby cutting down on travel wait time.

Iris recognition has its own downsides. The method depends, for instance, on the use of algorithms that represent the random patterns in the iris as a sequence of bits—no known human experts can determine whether or not two iris images match. Hence, iris data are unsuitable for use as evidence in a court of law and can be fooled easily for eg: by showing a face on a laptop in front of camera.

Palm vein based authentications is yet latest and contactless, hygienic, non invasive system that's accurate and easy to use. Simply holding the palm over few centimeters away from the scanner and in seconds the scanner captures a near infrared unique vein pattern. If a perfect match is found in the stored database, the identity is verified. However such a technology can scale up to billion of users, is still a questions which research will answer in years to come.

At present no concrete, viable solutions can be seen on the horizon for addressing the entire spectrum of identity, security and privacy concerns. The UID project itself deals with digital sovereignty India and the privacy and dignity of its citizens. These problems can be resolved through research, public discussion and policy making, however. It is only a matter of time before continued improvements to biometric tools will move them center stage in efforts to combat the rampant problems of security and identity fraud that our society faces.

Ms Divya

Associate Coordinator, CSRC, PEC University of Technology



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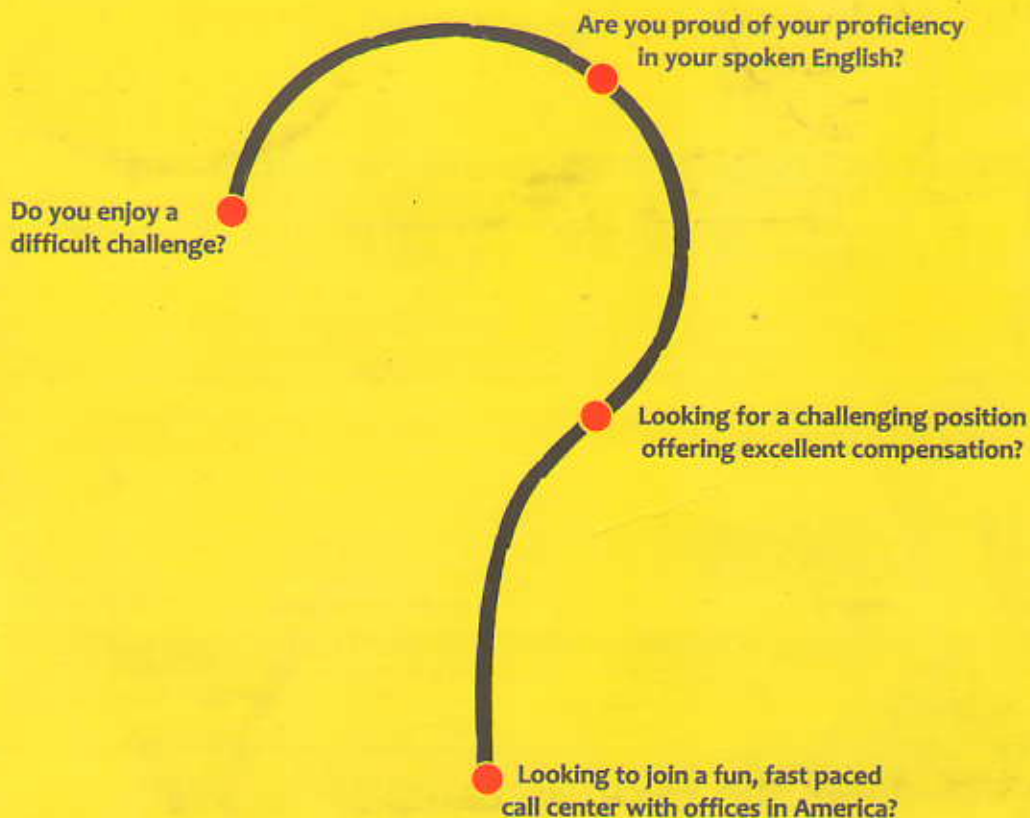
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