

Vol. 4 | No.3 MAY, 2006

NIC Projects

- Introduction
- E-Dhara
- Registration of Documents
- SWAGAT
- Property Card Information
 System
- SWIFT
- Passport Application
 Verification
- District Passport
 Application Verification
- Employment Exchange Management System
- Court Case Monitoring
 Sytem

<u>e-Governance News:</u> Workshop-Review of ICTD project at NISG, Hyderabad

Courtesy By

Shri Rajnish Mahajan Senior Technical Director& State Information Officer, NIC - Gujarat

Editorial Team

Neeta Shah Prashant Shah

NIC Projects in Gujarat - Part-I

INTRODUCTION

NIC, premier organization in the field of IT, has visualized the potential and need of promoting IT long ago. Aware about the requirement of promoting the IT many areas in government and non-government sectors, NIC has established promotional units in major cities of the country since 1995. Basic function of the units is to provide and promote IT services in the various sectors for the benefits of the nation.

This News letter has covered the overview of major projects executed by NIC in Gujarat. Some more projects will be covered in the coming News letter.

Integration of NICNET with GSWAN (Gujarat State Wide Area Network)

The GSWAN is integrated with NICNET. All the GSWAN users are browsing the sites hosted on nic.in domain using NIC local bandwidth. This saves the bandwidth of the State Govt and facilitates GSWAN users to browse Central and State Govt. websites without Internet connection.



🔸 SAN Servers at NIC Gujarat

Storage Area Network (SAN) at NIC Gujarat State Centre is getting ready to cater the needs of Govt. of Gujarat, mainly to store bulky data like Land Records, Ration Card, Below Poverty Line, Agricultural Census, Education data collected in 7th All India Education Survey, Live Stock census data, Forest Department data, Social Justice & Empowerment Department data, Agriculture, Horticulture and Animal Husbandry data etc. It is also proposed to setup dedicated server space so that departments can use them for day-to-day work, which will be maintained by NIC. Districts and Taluka offices can use the same for online applications.

e-Dhara (Software for Computerization of Land Records)

Revenue Department: 225 Taluka mamlatdar offices

- Computerization of land records with more than 98 Lacs 7/12 village forms and 56 Lacs land khatas is one of the best e-Governance projects of Government of Gujarat. Government of India, Ministry of Rural Development, funded the project. Objective of the CLR project is to deliver citizen services related to land records efficiently with accuracy and transparency. National Informatics Centre (NIC), Gujarat State is responsible for developing the software for data entry, mutations and issuance of ROR and its implementation.
- NIC, Gujarat State developed the comprehensive software named "BhuLekh Soft" for day-today transaction taking place at village level. At present project is on-line at Taluka level. All
 225 talukas (e-Dhara Kendras) of 25 districts are equipped with a server, clients, printers, Bio-Metric Device (Finger Print Reader), Scanners etc and the transactions are done online.



Scope

A). At Public level: -

People can get well-printed copies of their land holding documents. Tampering with revenue records minimized. People get the copy of Record of Right (7/12) and Account of land holding (8a) at Taluka level. Farmer Book is printed. Reduces litigation and helps in expediting litigation process. Government reduced the charges for 7/12, 8a from Rs. 15/- to Rs. 5/- from August 2005.

b) At Administrative level: -

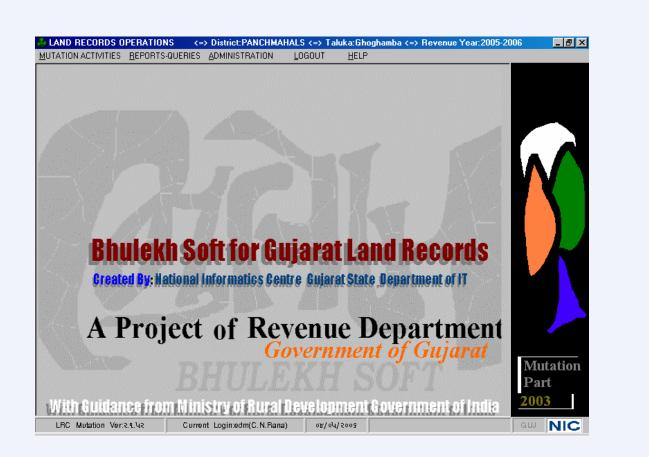
Reports are generated for Details of Land, Land Use, Crops cultivated, Source of Water, Type of Electrical Equipment used, Trees etc. Borrowings, Liabilities on each land per village could be listed. GIS application can use these data to produce different maps. Agriculture Census will be a by-product of Land Records Data. Information Outlets can be linked with these data. Correct revenue information in time with easy access. This information can be used for District Planning. Apart from landowners the departments like Revenue, Agriculture and Irrigation are beneficiaries of the land records database.

Software Modules:

1. ROR@Village:

RoR at Village is the integration of e-Dhara project with Vishwa Gram project. To start with, facility of issuing RoR is extended to Village Panchayat. Technically, system uses Gujarat State Wide Area Network, SAN setup at NIC Gujarat State Centre and e-DKs. Village Talati posts the request for RoR using Intranet site and e-Dhara Dy. Mamlatdar who seats in e-Dhara Kendra processes the RoR and uploads to SAN. Talati then prints the RoR using the Intranet site. Client-Server and Web based application is integrated to provide the solution.





2. Frontoffice:

- ▼ ROR issue, Daily Work Reports, Data Uploading.
- ▼ e-Dhara Process
- ▼ Mutation Application Receipt.
- ▼ Entry No Generation with Finger Print Authentication.
- ▼ 135 D Notice Generation, Delivery by Village Talati
- ▼ Noting the Last 135D Notice Delivery Date
- ▼ LRC parameter wise Queries-Taluka wise / Village wise
 - ▼ Form 12 (Crop details) Updation (Schedule Data Preparation Data Edit)
 - ▼ Form 13 Summary Report of Form 12 Entries
 - ▼ Form 16 Irrigation details entry and reports
 - ▼ Old Entry Details, Freeze / Unfreeze Khata / Suvery No
 - Miscellaneous Reports

Page 4 of 22



3. Mutation:

- ▼ Mutations are the transaction entries, which update the Land Records.
- ▼ Identified 35 types of Mutations
- ▼ S-Form depicting pre and post effect position of mutation.
- ▼ Mutation locking and effect through Finger Print Authentication

4. Admin:

- Administrator Activities
- ▼ Update Database Definitions
- ▼ BIO Device (Finger Print) Setup
- ▼ User Management & Privileges
- ▼ All Master files setting up

5. Scanning:

- ▼ Scans the VF6, 135D Notice office copy, S-Form, VF6 Order
- ▼ Backlog scanning of old documents like Mutation, ROR etc.
- ▼ All scanned documents can be easily printed and retrievable.

6. Correction:

- ▼ Controlled application expires after the authenticated period.
- ▼ Used to rectify the data entry errors.
- ▼ Finger Print Authentication to create the correction work list.
- ▼ Automatic freezing of the khata number and survey number.
- ▼ The distribution of this module is restricted with strict requirement Evaluation.

Future Scope:

Integration of BhuLekh with e-Gram, Urban Land Records (Property Cards), Kami-Jastiatrak (Survey settlement), Tippan, Registration of Documents etc.



- Data access to other financial and planning institutions, agriculture and irrigation department, Judiciary etc.
- ✤ Information outlets like KIOSK etc.
- Making Taluka centers become the HUB for citizen centric services like ROR, Ration card, birth
 & death certificate, caste certificate, income certificate etc.

Technology used:

- ▼ Windows 2000 / 2003
- ▼ SQL Server 7.0 / 2000
- ▼ BhuLekh soft from NIC, Gujarat State

Software Development Tools

- ▼ Visual Basic 6.0
- ▼ Crystal Report 7.0
- ▼ GIST SDK 2.7 for Gujarati Language support
- ▼ I-Plugin for Gujarati Web interface

Registration of Documents (ReD)

Revenue Department: Inspector General of Registration

This project of revenue department is novel in many ways. The main objectives of the project are to serve the public in the process of registration within minimum possible time with full transparency. It is planned to give back the registered document to the party within an hour of presentation to the Sub Registrar. It is also first time that the process are outsourced except the application software. The application software ReD (Registration of Documents) is designed and developed by National Informatics Centre. The private vendors are awarded the job of supplying and maintaining the necessary hardware, system software, furniture, and required stationary and data operators on a revenue sharing basis.



ReD software:

- ↓ The backbone of the project is the application software designed and developed by NIC.
- ReD is a comprehensive software developed to cover all the process of registration from presentation and registration fee receipt generation to scanning and printing the record copy of the registered document and archiving the document images.

Objective:

- + Return of the original document immediately after registration
- Modernize the Sub Registrar Offices
- Public comfort at SR offices
- Transparent process
- + Availability of Stamp Duty and Market Value on Internet / Intranet.

Features of ReD:

- Introduced an input sheet to be filled in by the party and verified by the sub registrar for easy data entry by the operator
- Jantri Module (Market value of whole State is available)
 - Registration Module
 - Valuation Module
- Calculation of Stamp Duty
- Photo capturing of the parties using web camera
- BIO-Metric (Finger print capture)
- ✤ Scanning Module for scanning all the pages of a document
- + CD Backup for database and archival of scanned images of a document
- Bilingual User Interface (Gujarati & English)
- ✤ Document Number issued by computer and fee receipt is generated

- An e-Governance Bulletin from GUJARAT INFORMATICS LTD.

- Market Value & Stamp Duty Calculation as per laid down rules and Jantri (Land Rate)
- On the spot generation of Ganatri Patrak (calculation sheet) and Notice 3(2) for deficit amount
- + All endorsements are generated and attached to the original document
- ↓ Indices viz., Index 2, Index 3, Index 4, CTS Patrak and various other administrative reports.
- ✤ User friendly menu driven software for easy operation
- Help at each and every level

eGov@Gujarat

- 🔸 Data Security
- Web based application for determination of Stamp Duty and Market Value
- ReD is implemented in 25 Sub Registrar offices of 7 municipal corporation areas since May 2005. The proposal for replicating this to the remaining 124 SR offices is under process.

Document - No : 14 , Year : 2006(KKKK - SR. 1) Document - No : 14 , Year : 2006					
General Details	Property Details - ૧	Property List			
Entry Date	04/05/2006 ▼ Sign Da	te 04/05/2006 -			
Presentation Date/Time		ate 04/05/2006 💌			
Document Nature Conveyance	Article 20 Do	oc. Side 12 Folio 0			
Consideration Amount 480000	Registration Fee 7275	Used Duty 28560			
Used Stamps : Printed 28560	Adhesive 0	Franking 0			
Name અગીષ પટેલ	Address 38/3B - 4 MHEIGLE-3	ગવજીવન સી. ▲ ૪ ▲ ▶			
Pending Reason Vet to be Dec	ide 🔹	Party Details >>			
Market Value + Exemption	= Land Value + Construction Value	+ Dev. Charges - Depreciation			
0 0 Total Stamp Duty + Exemption 0 0	Bombay Duty + O.L.Surcharge + TP D	0 0 uty + DP Duty + Municipal Duty 0 0			
Save Exit					
R - GUJARAT SRO-Ahmedabad-1	City - AHMEDABAD Ver-2.0.1	2006 Hitesh P			



Technology used:

VB 6, CR 7, SQL Server, Pentium IV (1 Server and required Clients / SR office), Scanner, Laser Printer and Dot Matrix Printer, Web Camera, Biometric control (Finger print), CD Writer

SWAGAT (State Wide Attention on Grievances by Application of Technology)

Hon. CM Office: All the Secretaries, All the District Collectors / DDOs / S.Ps. and Head of Departments.

- Redressal of people's grievances has always been a challenge for the administration. The travel of the grievances being slow, many a times the same applicant turns up repeatedly in with the same grievance. People come with the grievances to the State level and to Hon. CM, which could and should be redressed at local level.
- SWAGAT is a combination of digital management and WAN technology to overcome the above said problems. It makes the travel of the grievance instant and the system below is sensitized and held accountable.
- **4** Grievances are categorized into: Policy matters, First timers and Long pending Cases.
- Hon. CM takes up such grievances District wise in presence of the applicant and asks the concerned District functionary on video conferencing about the reasons of pendancy on the 4th Thursday of every month. Approach is to resolve the grievance then and there.
- All three categories of grievances will be displayed in the same manner to all connected functionaries through the bilingual web based application developed by NIC.
- The software developed by NIC supports this innovative idea conceived by Hon. Chief Minister's Office.

Technology used:

ASP, SQL Server 2000, and Windows 2000 Server



PCIS-Gujarat (Property Card Information System)

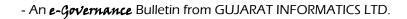
Revenue Department: Settlement Commissioner & 66 City Survey Offices

- For monitoring and maintaining the ever-changing Urban Land Records and for effective implementation of urban development programs, an Urban Land Information & Management System with highest level of transparency is needed.
- NIC has developed a complete software solution for Urban Land Records System (PCIS), which can be use for 66 City Survey Offices in 25 districts. Front office software for online operation was developed and was inaugurated 26th January 2006 at Rajkot City survey Office – 1 for online property card distribution by hon'ble revenue minister Shri. Kaushikbhai Patel.

The main features of the software are

(Support for both English as well as Gujarati using GIST SDK 2.7)

- Data can be entered from Property card as well as Inquiry register
- 52 types of mutations is available including division, amalgamation and sale transactions etc.
- Property Card, Inquiry register, checklist etc are some of the important outputs
- All type of queries are provided which is useful for the public as well as the Office
- Preparation of Property Card from Enquiry Register
- Notice-135 D & Notice A, B, C printing
- Mutation Effect on Property Card
- 4 Queries on Tenures & Area.
- Report of Enquiry Register, Mutation Register.
- Searching of City Survey Numbers by name.





The da	ta entry	v status as of May 2006 is	
	1	AHMEDABAD	59,000 Property cards
	2	JAMNAGAR	10,000 Property cards
	3	RAJKOT	83,000 Property Cards
	4	VADODARA	87,000 Property Cards
	5	JUNAGADH	11,000 Property cards
	6	SURAT	87,000 Property cards
	7	BHAVNAGAR	30,000 Property cards

Implementation methodology:

Data entry started in the corporation areas.

Technology used:

VB 6, SQL Server 2000, CR7, Win 2000 server / Win 2000



State Wide Information on Financial Transactions (SWIFT)

- Facilitating Finance Department and other Government Departments for monitoring the financial transactions done by the department itself and their sub offices at respective District Treasuries and Pay and Account Offices.
- Financial transactions and its monitoring is a vital part of every Government Department. The Departments are mainly collecting the inputs from the lower level offices and deriving the expenditure incurred and its funds availability. The majority of these transactions are done through treasuries and PAOs and all the treasuries and PAOs have computerized their operations & connected to GSWAN. This has provided the opportunity to disseminate the information to each office and its head office simultaneously. Initially it started with the online status and voucher information for each bill. Now the data from all treasuries and PAO is compiled at state data centre on daily basis and consolidated statements are generated at each level.
- State Wide Information on Financial Transactions (SWIFT) is an Intranet Web application developed for the departments of Government of Gujarat on GSWAN. This application is hosted at NIC, Data Center and also provides a scope to disseminate on Internet.
- URL: http://intranet.guj.nic.in/swift
- All district treasuries and PAOs are uploading their daily transaction details to the NIC's state data centre; this in turn dynamically generates the summary data for SWIFT, which delivers the following reports.
- Department wise, Demand wise, Scheme wise State Summary.
- State wise Receipt Summary.
- District wise Letter Of Credit-LC Summary
- District wise Stock of Stamps Summary.



Technology used:

ASP.Net, SQL Server, Oracle

Separtment		Period	l from Apr 2006 To amount in Rs.	o Apr 2006 Close
HEAD NOs & DESCRIPTION		PLAN	NONPLAN	TOTAL
: 03 : AGRICULTURE AND CO-OPERATION DEPARTMENT		4463412	40019053	44482465
: 04 : EDUCATION DEPARTMENT		8743092	866517991	875261083
: 05 : ENERGY & PETRO CHEMICALS DEPARTMENT		0	1919010	1919010
: 06 : FINANCE DEPARTMENT		0	512689110	512689110
: 07 : FOOD, CIVIL SUPPLIES & CONSUMER AFFAIRS DEPARTMENT		1044661	7382296	8426957
: 08 : FOREST & ENVIRONMENT DEPARTMENT		351372	27047269	27398641
: 09 : GENERAL ADMINISTRATION DEPARTMENT		0	4429229	4429229
• :: 30 :: ELECTION		0	1805293	1805293
:: 32 :: GENERAL ADMINISTRATION DEPARTMENT		0	1951902	1951902
2014 ADMINISTRATION OF JUSTICE		0	204276	204276
2052 SECRETARIAT GENERAL SERVICES		0	235182	235182
3451 SECRETARIAT-ECONOMIC SERVICES		0	1512444	1512444
		0	597761	597761
+ :: 34 :: OTHER EXPENDITURE PARTAINING TO GENERAL ADMINAS	0	74273	74273	



Home Project – Pass Port Application Verification (Pass Port office to SP office)

Home Department: District SP offices and Police Stations

Scope :

The status of the passport application verification is uploaded on the central server and this status will be made available to the Regional Passport office

Features :

Day to day passport application received by the Regional Passport application will be uploaded on the central server of NIC. Applications are available to the respective District SP office for the verification.

District SP office may forward those application to the respective police station. If the police station is connected on intranet then police station can directly update the application

Status of the verified application is updated on the server and it will be available back to regional Pass Port Office.

Implementation Methodology :

Operation all most all the district SP offices

Technology used :

High-end server for hosting web application and SQL Server 2000 database server. Users required a computer with IE 5.0 onwards. The application is accessible over Intranet (GSWAN).



Home Project – DPACC (District Passport Application Verification)

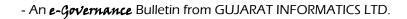
Home Department: District SP offices and Police Stations: District SP offices and Police Stations, Regional Passport Office

Scope

Passport Application collected at all the District collection centre will be entered in the application. The same will be updated after the verification of the application. The application may be forwarded to the police station for further activities if the intranet facility is available to police station level.

Features

- Application is entered on central server and will be available at any time for the verification.
- **4** Forward of application to the police station
- ♣ Application keeps track of the application received back from the police station
- ✤ Can get online receipt of the application
- + Police station wise application pendency / Summary as well Register available
- District wise application Pending report at state level is available.
- Summary of pending / Disposed application
- Application Pendancy report (in duration)
- **4** Report for Cleared application in duration
- ♣ A Police Verification letter can be printed in a predefined format.
- Daily DD Collection Report





Implementation Methodology

Operation all most all the district SP offices

Platform:

High-end server for hosting web application and SQL Server 2000 database server. Users required a computer with IE 5.0 onwards. The application is accessible over Intranet (GSWAN).

District Passport Application Collection Centre (Version 2.0 13/12/05) - Microsoft Internet Explorer								
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites	<u>T</u> ools <u>H</u> elp				A			
🚱 Back 🔹 🐑 👻 😰 🏠 🔎 Search 🧙 Favorites 🤣 🔗 - 🌺 🕅 - 🛄 🏭 🦓								
Address 🕘 http://10.154.0.13/	dpacc/				🔽 🄁 Go			
Distrie	ct Passport	Application (ollec	cvadlib tion Centre vadodara city				
Passport Application Ser	nd to Police Stn	Received From Police Str	. Statu	s Update Application <u>Home</u>				
Category Fresh Pass District BARODA	oort-Districts-B	Applics	tion I	Date 02/01/2006				
Application Numb	er AHDB29001906	AHDB2900	1906	(Required full number)	=			
Applicant's SurNa Applicant's Name			(Requir	red) (Expand with initial)				
Father's Name	KANTILAL MULGIBH	AI RAJPRIYA	(Requir	red)				
Mother's Name	DEVIKABEM KANTI	LAL RAJPRIYA	(Requir	red)				
Spouse's Name	NIL							
Place of Birth	Village/Town	VADODARA		(Required)				
	District	VADODARA		(Required)				
	State	GUJARAT		(Required)				
Date of Birth 13/03/1969 (Required)(DD/MM/YYYY) Sex Male (Required)								
Delete		Clear Upd	ate	Receipt				
🕘 Thursday 4th May 11:19 😒 Local intranet								



Employment Exchange Management System (EEMS)

Labour & Employment Department: Directorate of Employment & Training

A comprehensive system developed by NIC is implemented in all 42 employment exchanges, university employment bureau and tribal area exchanges. Database of more than 11,00,000 jobseekers (unemployed) is operational since October 2001. This transparent, effective and unbiased interface provides a hassle free service to the unemployed youths. This system is sophisticated for submission of jobs according to the requirements and consequent selection of candidates from the registered youths.

Features of the software are

Online registration, Transfer registration, Backlog registration, Renewal of registration, Update of Personal information, Educational details, Training and Experience details, Submission, Monthly and Yearly processing, All types of queries, Search facility, Legislative assembly questions, User administration, All kind of reports, Back up facility, Frequently Asked questions

Scope

- 1. Uniform Database structure
- 2. Quick and accurate information about registration and Placement
- 3. Better service to candidate as well as employer
- 4. Effective centralized monitoring

Technology used:

VB 6.0, Crystal Reports, SQL Server 2000, Win 2000 / XP



Web Based Court Case Monitoring System (CCMS)

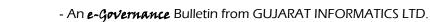
Any department of Govt. of Gujarat

Scope :

Court Case Monitoring is generalized web application developed for Facilitating Government Departments for monitoring the proceedings of their cases in various Courts. The system will provide latest & up-to-date information of any pending case of the department at any point of time. The application will aid any department or individual to monitor tendency of cases in any court. The ready report generated by the application provides the information at management level for decision-making.

Features:

- Cases entered from any office under a department are maintained with their complete hierarchy of department.
- Readily available master data like Courts, case types, subject of the case, designations, Lawyer master etc.
- ♣ Summary of the cases is available at any level of office
- Various reports and alerts on cases to be heard during a specific period, compliance pending and the current status.
- Application captures the basic details of each case. Litigants of case and document filed. The proceedings details can be entered as and when proceedings of a case take place in the court. Department follow up can be entered to maintain the in house record of the case.
- Various reports available on Court wise, Year wise, case type wise, Case status wise and office wise. A complete Case Sheet also can be viewed.
- Current Case status can be obtained from high court through clicking on the case number (Subject to the link available with high court server).





Technology used:

Web Application hosted on high-end server. Application developed in ASP.NET with SQL Server 2000 as back end. Users need a computer having intranet connection and IE 5.0 onwards.

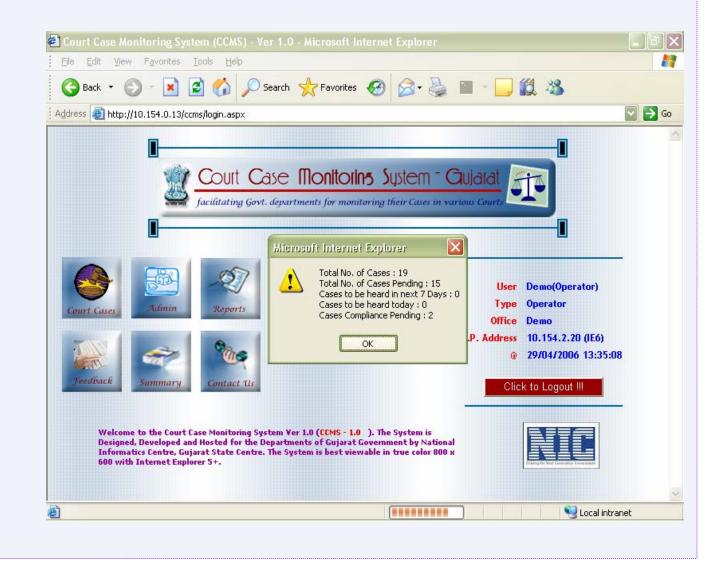
Current Status:

Application can be accessed through the following URL.

http://intranet.guj.nic.in/CCMS

User Id and password for demonstration is:

User ID : demo Password: nic





- An e-Governance Bulletin from GUJARAT INFORMATICS LTD.



Workshop for review of ICTD projects

United Nations Development Programme's (UNDP's) country programme for India has set as its priority 'the goal to work towards promotion of sustainable human development and elimination of human poverty and inequalities'. Along with Ministry of Communications and Information Technology (MoCIT), Government of India, UNDP conceptualized the project ICT for Development (ICTD) for the period 2003-2007, lying emphasis on the vital role that ICTs can play in achieving Millennium Development Goals (MDGs).

Thirteen pilot initiatives are being funded through this project under four themes, namely -Integrated Citizen Services, Rural Livelihoods, Governance and Women Empowerment. These pilots are being implemented by project partners like state governments and nongovernment organisations.

The National Institute for Smart Government (NISG) is responsible for project management and monitors the progress of these projects. To find out possible gaps between targeted goals and those achieved so far, a review workshop for project partners was conducted at the **Indian School of Business (ISB)**, **Hyderabad in Andhra Pradesh on May 8-9**, **2006**. The workshop was attended by senior officials from MoCIT, Government of India and UNDP, along with representatives from each of the project partners.

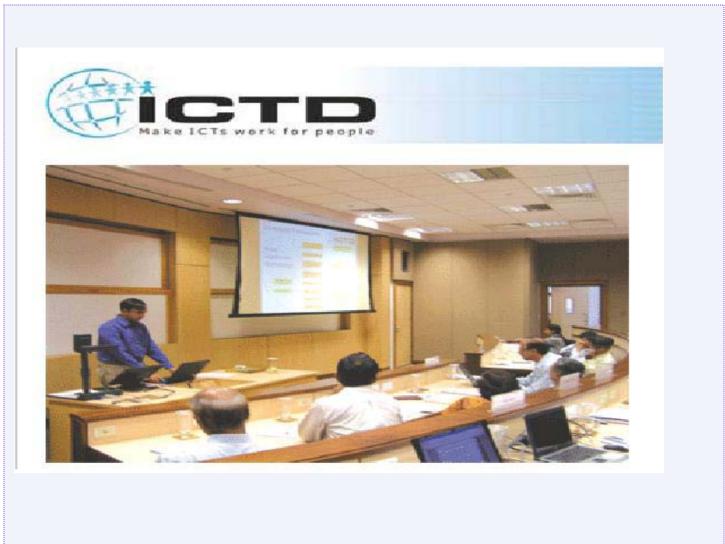
Following officers from Gujarat has attended the Workshop

Shashikant Chudasma, Deputy Director, Office of Development Commissionerate
 Anand Barot, Executive, Gujarat Informatics Limited.



- An e-Governance Bulletin from GUJARAT INFORMATICS LTD.

eGovernance News





WEB CORNER

National Portal of India http://www.india.gov.in

eGovernance Magazine

http://www.i4donline.net

For NIC project Contact at:

Shri Rajnish Mahajan Senior Technical Director& State Information Officer, NIC - Guajrat E-mail: sio-guj@nic.in Ph no. (079)23252403, 23223035 For electronic subscription to the bulletin, please email us with your email address at:

webmaster@gujaratinformatics.com

or visit us at:

www.gujaratinformatics.com

Contact Address: Gujarat Informatics Ltd. Block No. 1, 8th Floor, Udyog Bhavan, Gandhinagar – 382017 Phone: 079 – 23256022 Fax: 079 – 23238925

4