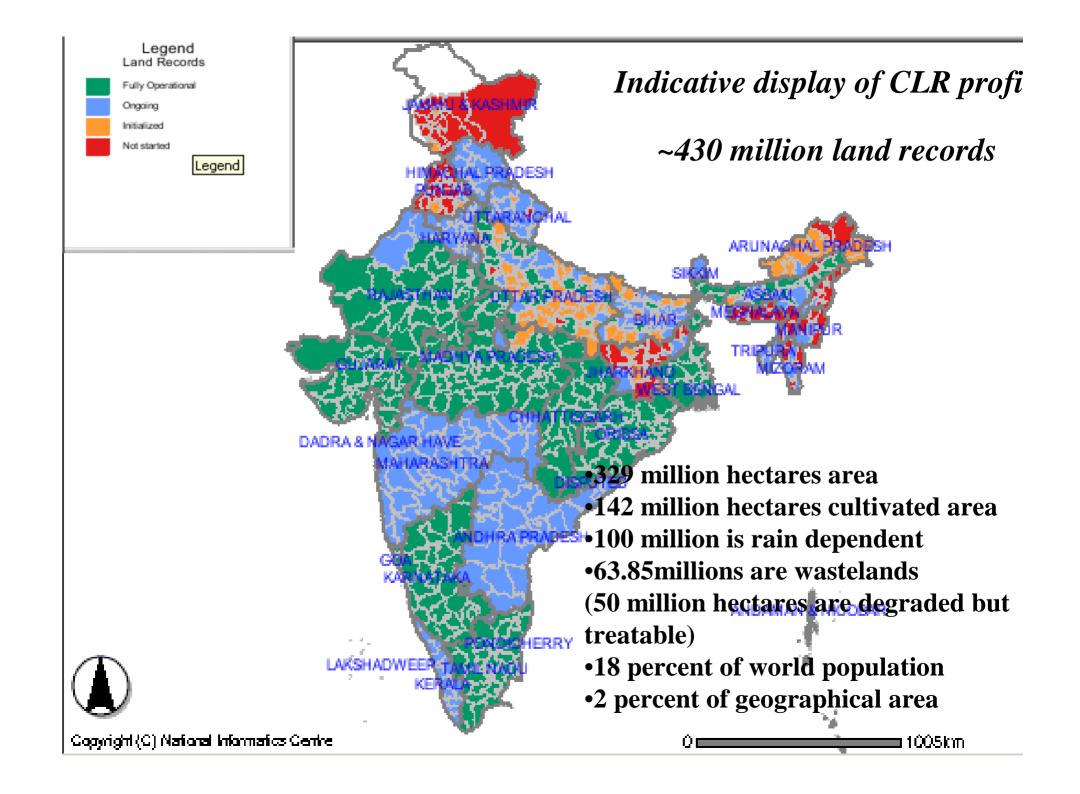


COMPUTERISATION OF LAND RECORDS



Streamlining the Land Records

Dr. D.R. Shukla drshukla@nic.in NIC, Dept of IT Govt of India





CLR

Joint Venture NIC & MRD

- In more than 582 Districts & in approx. 3400 Revenue Circles
- Distribution of ROR in 2668 Cirrcles
- Expenditure approx. Rs. 370 cr.
- Started in 1988-89
- Land Records Application S/W –ISO 9126 Certified

States & UTs

Karnataka, TN, Andhra, Kerala Pondycherry, **Andmans**

Rajasthan, UP, Uttaranchal, West Bengal, Goa, Orissa, MP, Gujarat,

Maharastara, HP, Sikkim, Tripura, Haryana, Chattisgarh, Assam etcand Records Division Puto Circle level

Deliverables

Computerized **Record Of Rights** (ROR), Tenancy & **Crop Details**

- LR Services to **Citizens**
- Automated workflow



Objective

- •Digital Land Record Maintenance system
 - Preservation, Maintenance and Updation of Records of Rights
- •Value addition to delivery of services to common citizens
 - •Speed; Moral; Efficient; Transparent
- •Efficient management of Land and administration { Land distribution ; Ceiling Surplus etc.; Registration}
- •Social engineering (Abolition of tenancy; Support to marginal farmer; Ownership to tribal and poorer section of society)
- Knowledgebase for Financial institutions; Judicial process, City planners and various other users



Product Perspective

A comprehensive solution for Land Records domain comprises of

- Attribute data for Owners, Details of share holding,
- Characteristics of land and plot: Soil, land use, Irrigation
- Automation for workflow regarding change in Ownership
- Cadastral Maps
- Integration with deed registration
- Security : Confidentiality ; Authentication and Integrity
- •Knowledge base for multipurpose information
- •Service oriented Architecture
- Quality Assurance to users



MULTIPURPOSE CADASTRAL DATA BASE

Owner Rights & Liabilities :: Land Use :: Land Revenue :: Tenancy Violations :: Encroachments :: Sources of Irrigation :: Maps :: Mutations

Reports & Queries

FARMERS

use land information & Record of Rights (ROR)

FINANCIAL INSTITUTIONS

use ROR as credible evidence to provide loans

REVENUE ADMINISTRATORS

maintains information like revenue, land under encroachment for development programs

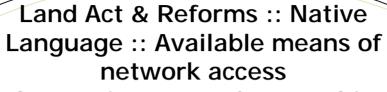
JUDICIARY

uses ROR to decide ownership and other land disputes

LAND PLANNERS

use information on land usage, classification and cultivation towards sustainable development





Categories & no. of ownership rights :: Output formats :: Workflow styles Categories of Land



:: TRANSACTIONS ENTRY & MODIFICATION

:: AUTOMATED TASKS & WORKFLOW

:: VERIFICATION & AUTHENTICATION OF EVERY TASK

:: USER AUTHENTICATION & ACCESS

:: SIMPLE & USER FRIENDLY INTERFACE

:: DATA BACKUP & SECURITY

:: DATA IN REGIONAL LANGUAGE

:: SECURITY USING BIO-METRIC DEVICES

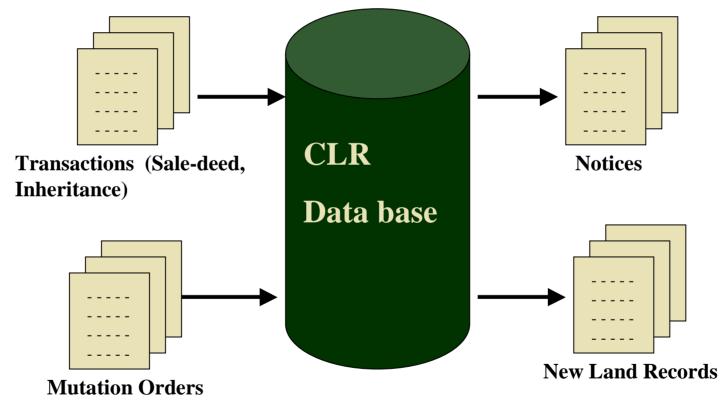
:: STANDARD CODES DIRECTORY

:: INTERACTIVE PORTING UTILITY

:: ON-LINE MUTATION UPDATIONS



Salient features of Land Record database





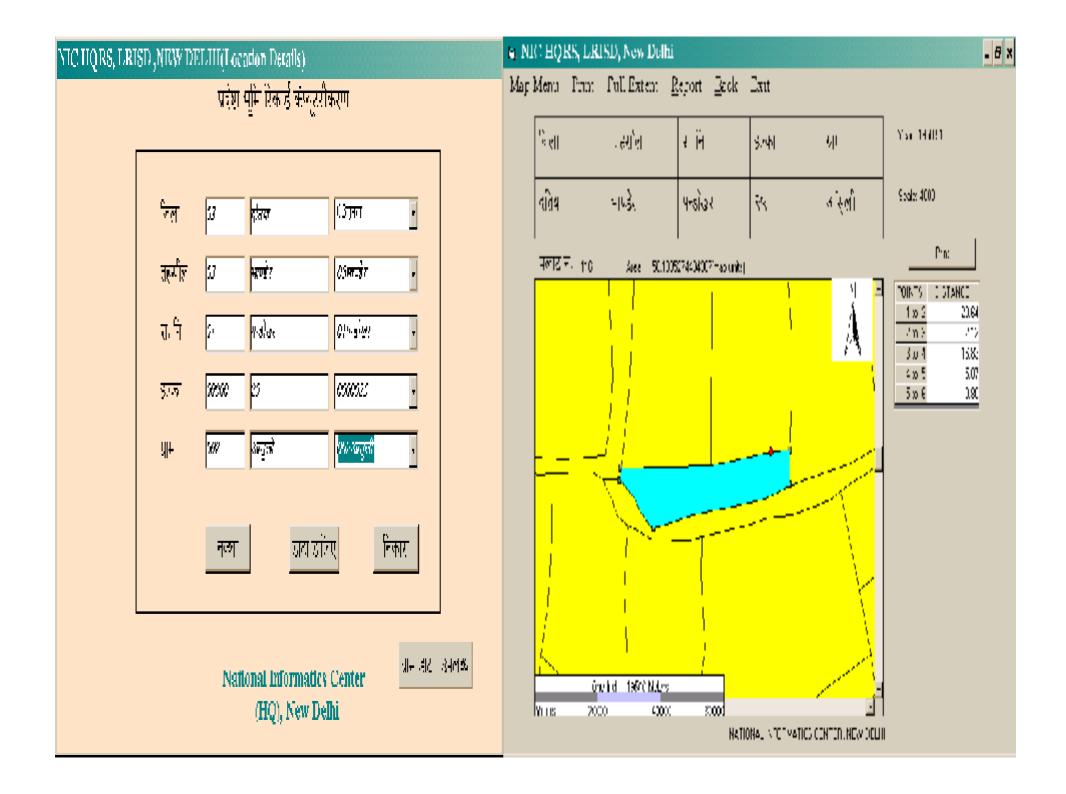
(Documents) output of computerized system

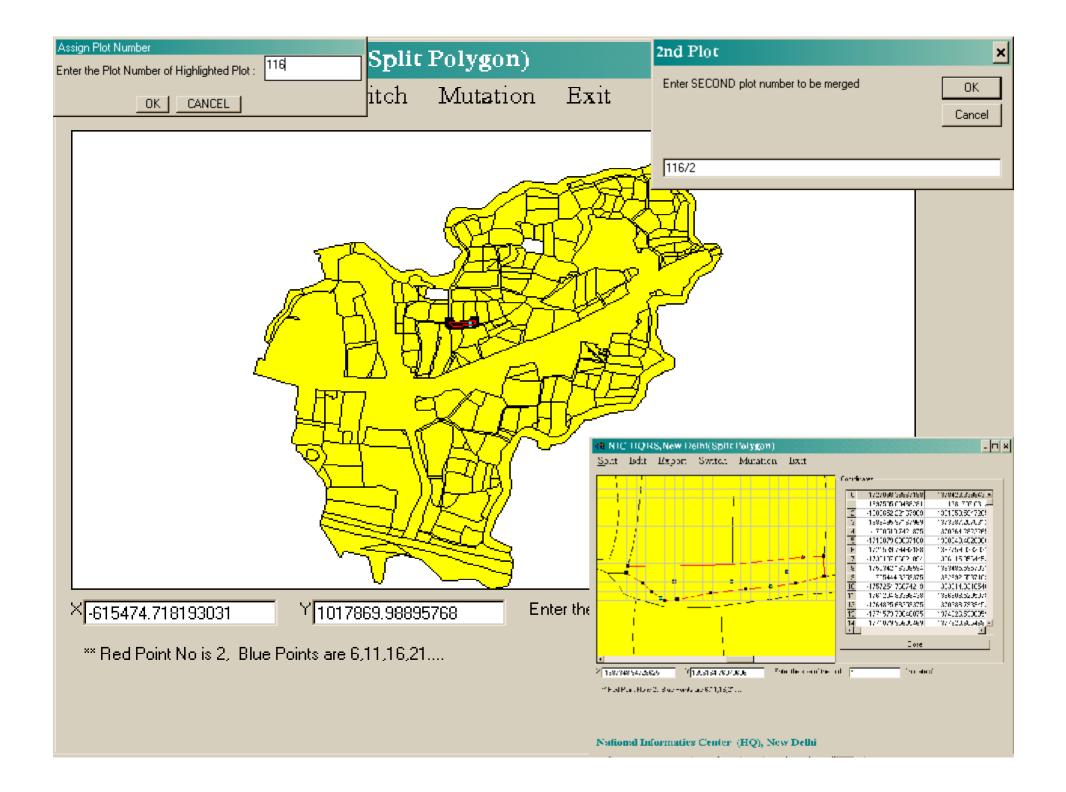
- **W** Land Records Document
- **W** Mutation Extract
- **W** Mutation/Inheritance Register
- **W** Khata Register
- **w** Notices
- w J-slip/Alienation/Survey /... Register
- W Various Analysis Reports (in tabular & graphical form)
- **w** Pendency Reports

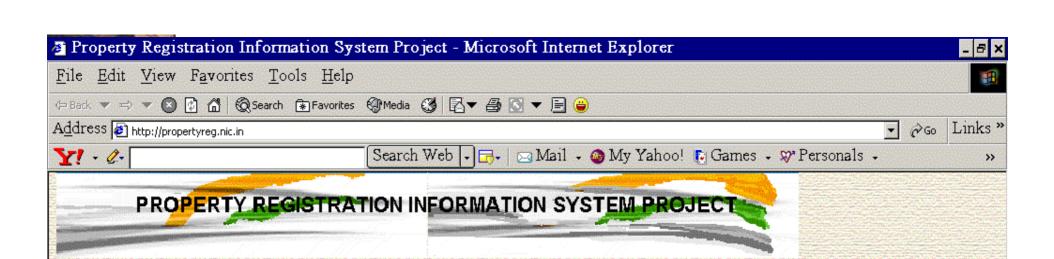


Format for Land Record Document RTC -Karnataka

Name of Revenue Circ						le	e Village		
Survey & Share No.		Total Extents details		Land Revenue details		Owners names, Extents, Khatha No., Acquisition, Rights & Liabilities details			
Soil type		ree tails	Irrigation details						
Year Sea- son	Cultivators details		'S	Land Utilization details		Crops details	Mixed crops details		







Home IR Acts, 1908

Operational Projects

Pipelined Projects

Property Registration System (PRS)

calls for radical reforms so that rigid & complex system valuation of properties and calculations of stamp duty & registration can be simplified to bring transparency and on demand one-stop service to the common man. Its' further linking with Land Records mutations & transactions related with the agricultural property, will provide a complete solution for Land Records Maintenance and Public delivery.

What is Registration?

Registration means recording of contents of a document with a Registering Officer & preservation of copies of the original document. The documents are compulsorily registered for the purpose of conservation of evidence, assurance of title, publicity of documents & prevention of fraud. Every document, which is to be registered, should be presented at the proper registration office by the concerned person himself/herself, or the representative or the agent of such a person duly authorized along with witness & appropriate registration fee. The payment of proper Stamp duty on instruments bestows legality on them. Such instruments get evidentiary value & are admitted as evidence in Court.

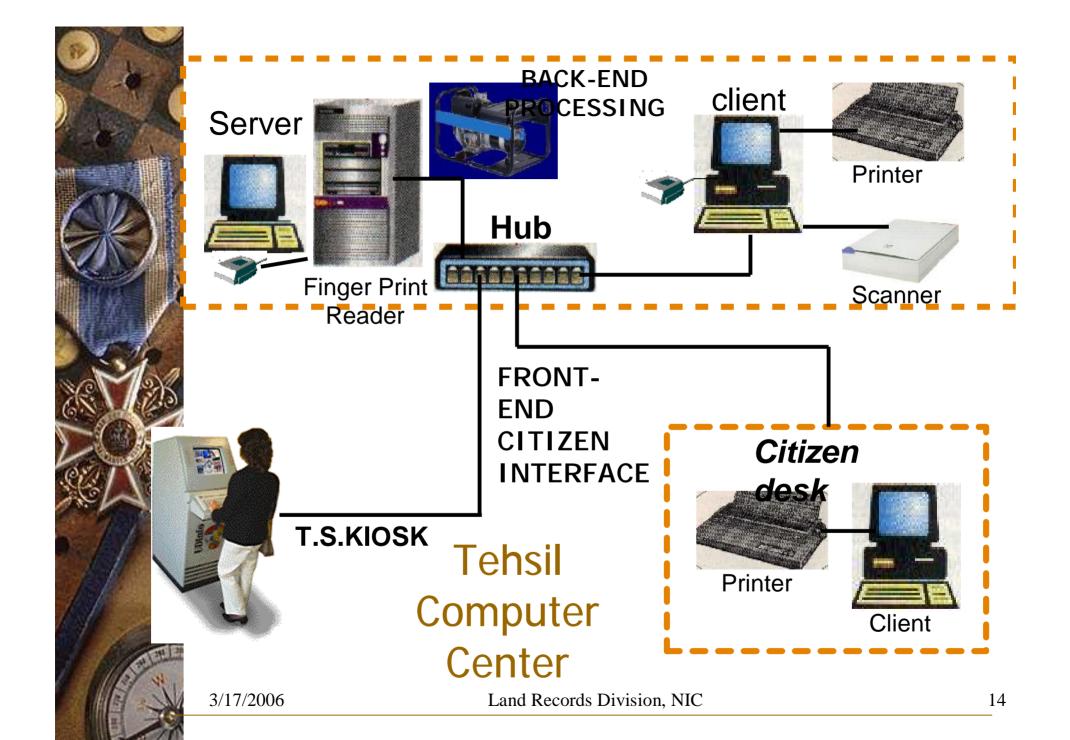






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For more information, please send mail to propertyreg@hub.nic.in

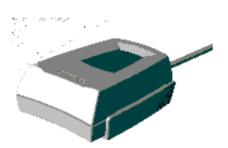


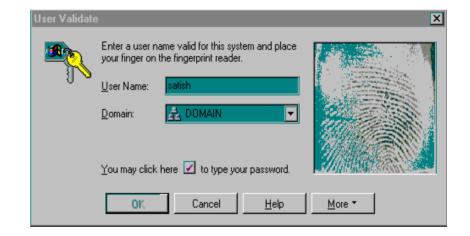


Salient features of CLR

Security of data, Bio-metrics (finger print) authentication is used instead of password

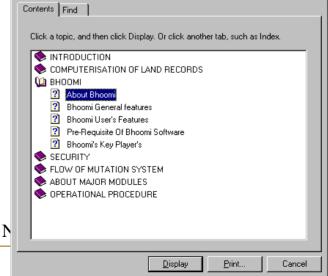
authentication





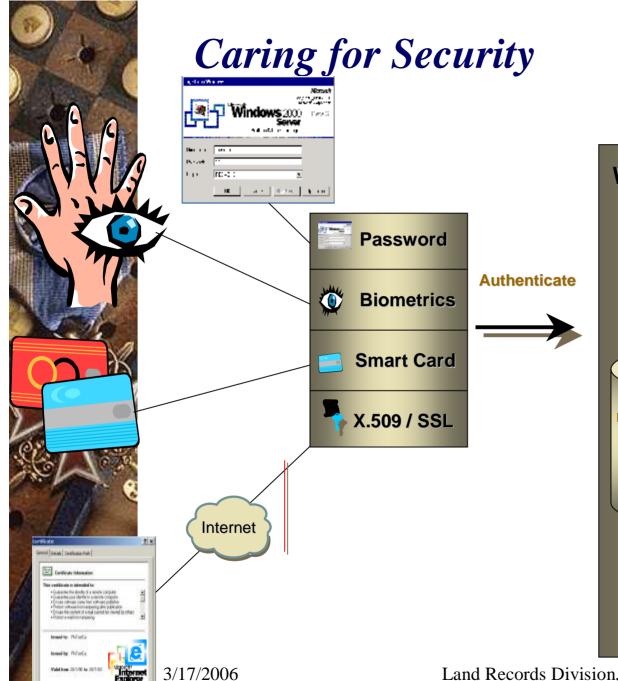
Help Topics: Land Project

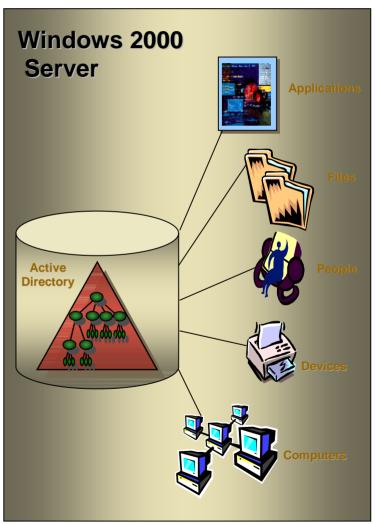
•. Online Help will assist users, while operating system



3/17/2006

Land Records Division, N







Golden Nuggets

GOA	Concurrent Mutation &
	Distribution of attribute & Map
KARNATAKA	Won CAPAM International award
GUJARAT	Implemented across state over state wide area
	Network
RAJASTHAN	ROR at doorstep using PPP
	model
WEGE DEVICATI	Individual ownership of Land, One
WEST BENGAL	man and one Khativan
TAMIL NADU	Coin based Kiosk without human
TAIME NAS	interaction or intervention.
CHATTISGARH	ROR available on through Indira
	Suchana Kendra setup at Schools
ANDHRA	Land Records Integrated with
PRADESH	Citizen Database : Introducing
HARYANA	Band Registration integrated with
	Land Records
HIMACHAL	Land Records integrated with MIS
PRADESH	
2/17/2004 ORISSA	Secured Transaction & Mutation
3/17/2006 ORISSA	Workflow



Government of Tamil Nadu

. Government | Services | Documents |

Contacts

Links





Site Map

Banning of Manual Certificates Tamilnadu ;Karnataka ; Chattisgarh; UP etc



Abstract

TAMIL NILAM - Computerisation of Land Records and other services - Delivery of on-line service - Validity of Computerised Land Records Extract Issued in printout/hardcopy - Ban on Issue of Manual extract of land records and use of hand written land records in rural areas - Orders - Issued.

REVENUE DEPARTMENT

G.O.(MS.) No.382 DT: 3.9.2003

Read:

- G.O.(Ms)No.396, Revenue(SS.II(2))Department, dated 19.10.2001.
- G.O.(Ms)No.142, Revenue(SS.II(2))Department, dated 27.3.2002.
- From the Special Commissioner and Director of Survey and Settlement Lr.Rc.S2/40970/2001 (Sy), dated 3.6.2003.

ORDER:

On-line service under the Centrally Sponsored Scheme of Computerisation of Land Records Programme (CLR) Christened as TAMIL NILAM is in a very advanced stage in Tamil Nadu. TAMIL NILAM project envisages on-line issue of Computerised extract (ROR) of land records. Initially 29 Model Taluks in the State were brought on-line. Besides Issue of computerised extracts of land records, the Public can access information on details of Old Age Pension/Destitute Pension, details of guideline values and obtain birth and death certificates, etc., All the remaining Taluks are expected to be brought on-line with effect from 1.10.2003 onwards.

2) The implementation of the scheme envisages concept of on-line mutation in rural areas initially. It means that various types of mutations have to be carried out through the 'TAMIL NILAM' software. The mutations are to be initiated on Tamil Nilam by generating notices and then serving the same on interested parties. The only way to carry out changes on any details in computerised Land Records is to do the same through appropriate mutation. Any mutation carried out by-passing Tamii Nilam will not be recognised by Tamii Nilam and computerised land records in printouts/hard copy issued without carrying out mutation on-line will show only old and obsolete details which is not contemplated under the TAMIL NILAM project for issue of computerised extract of land records to the public. If the Revenue officials at Village and Taluk levels keep on issuing hand written land records and do mutation in the age old conventional way by-passing Tamil Nilam, then the Computerised land Records data will become redundant and no purpose will be served. It will also provide room for tampering of records. Issue of Record of Rights to the land owners in a fool proof manner through updation process shall be ensured by the Revenue officials at all levels so that updated Land Records can be issued to the land owners on-line in printout/hard copy.

3) The Government have, therefore, decided to ban issue of manual extract of land records and the use of hand written land records in all the Taluks in the State as and when the Taluks are brought on-line.



CERTIFICATE OF APPROVAL

This is to certify that Software Product

"APNA KHATA, Version 4.0, Release 6, July 2003"

National Informatics Centre, New Delhi

fulfills the requirements of Software Product Evaluation and Certification Scheme of STQC Directorate Department of Information Technology

The scope of this Certificate of Approval covers

Standard • ISO 12119: 1994 Information technology - Software packages-

Quality requirements and testing

• ISO/IEC 9126-1:2001 Software engineering - Product quality

- Part 1: Quality model

ISO/IEC TR 9126-2:2003 Software engineering - Product

quality - Part 2: External metrics

Quality Characteristics : • Functionality

Reliability

Usability

Efficiency

Maintainability

Portability

Product Developing National Informatics Centre (Rajasthan State Unit),

Organization & Government of India,

Address Department of Information Technology,

Ministry of Communications and Information Technology,

318, North- West Block,

Secretariat, Jaipur.

Evaluation Report : STQCIT-Jaipur/NIC

Reference

Registration Number : STQC IT/SPEC/02

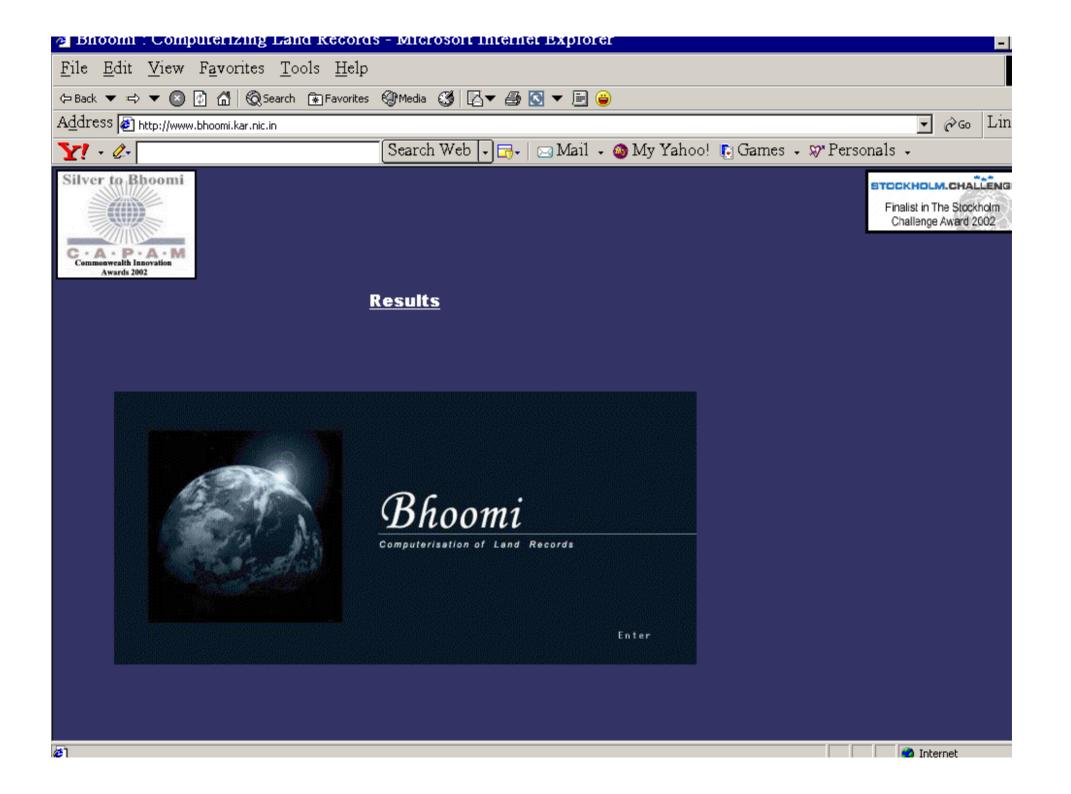
This certificate is valid up to 04.01.2007.

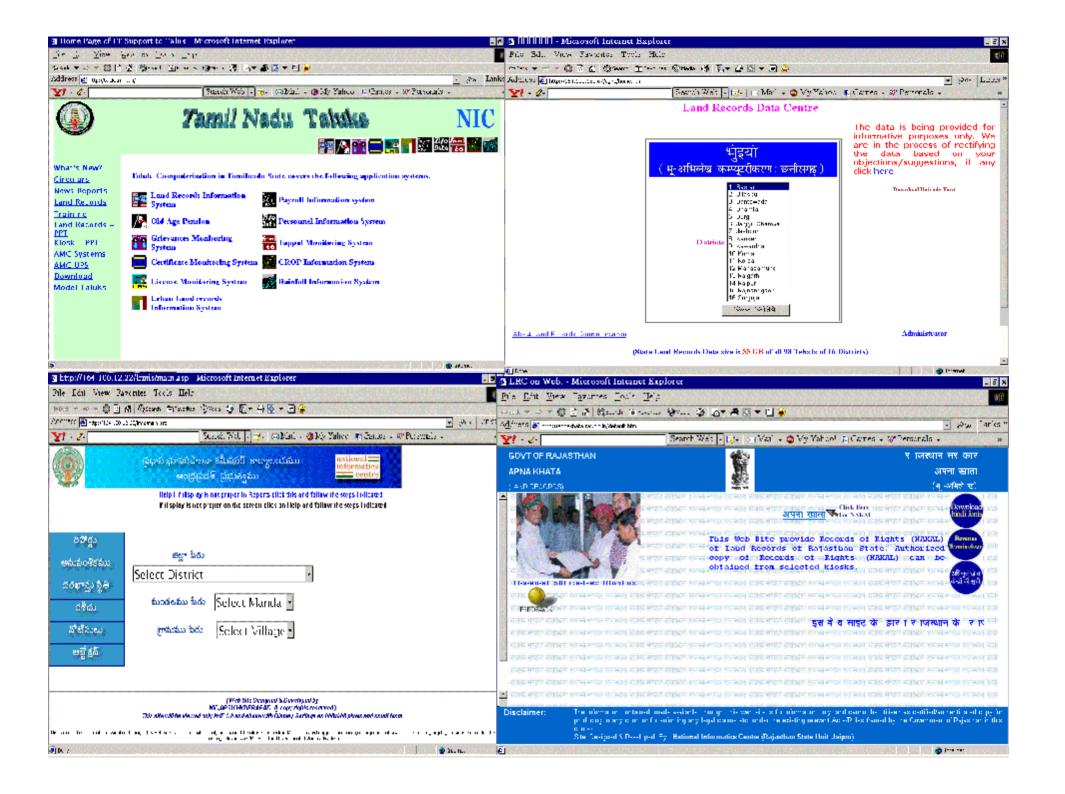
Date 05.01.2004



STQC Certification Services
Department of Information Tech
Government of India
Electronics Niketan, 6, C.G.O. C
Lodi Road, New Delhi - 110 003

•Assurance of Quality of Products







Banning of hand written Records/ RTCs

KARNATAKA, TAMILNADU, CHATTISGARH, M.P, ORISSA, UP

Access over Internet

ANDHRA PRADESH http://ccla.ap.gov.in (G2C)

RAJASTHAN http://apnakhata.raj.nic.in (G2C)

TAMILNADU http://taluk.tn.nic.in/land_records.htm (G2G)

CHATTISGRAH http://cglrc.nic.in

KARNATAKA http://www.bhoomi.kar.nic.in (G2G)

MP http://www.mpbhuabhilekh.nic.in(G2C)

ISO Certification for Application software (121199 {TQM 9126 model}

APANA KHATA; TAMIL NILAM; BHUMI 2000; INDRAPRASTHA

Bio authentication

Creating Security Framework based upon ISMS 7799 with legal security

Uniform Coding standards

Cadastral maps

Central Data centers for BASE



Streamlining the existing land records..I.

Computerisation of Land Records have improvised maintenance of records as well as delivery of services to citizens. There are several states where textual data for Record of Rights is available over WEB. Further, in order to enhance the value of records and content, Govt. of India has recommended for

- Simplification of format of Records
- •Incorporation of Cadastral maps along with Record of Rights
- Uniformity of data and coding scheme
- •Creating Security framework for Land Records domain.
- •Integration of Land Registration with Land Records.



Streamlining the existing land records..I.:

Features of existing manual system

- Currently, "Record of Rights" consist record of owners; enjoyers without clearly defining boundaries for each shareholder due to ambiguous Cadastral boundary system. Emphasis is given to maintain records of people than to maintain plot details.
- The system of keeping the plot-id and account id varies from state to state.
- In several states, Ownership is updated only after stipulated period after passing the mutation order.
- Land Registration; Land Records & Survey departments are not in sync in terms of information as well as process.
- Existing records may need to be regularly updated. The recordings on the record could be very much different from that of ground reality.

 Land Records Division, NIC



Streamlining the existing land records..I.:

Issues with existing IT-infrastructure

- Mostly located at Circle level. Village accountant who is primarily responsible for field enquiries have to come to Circle level for Computerized operations.
- Poor Power; Network and HR-support.
- •Lack of adequate security.
- •Non-availability of modern equipments like ETS & GPS.
- •Administrative manuals and procedures are not revised for digital scenarios.
- •Lack of maintenance support of facility at delivery level.



Need for Integration of Registration; Survey and Land Records.

- To match the plot details on the records with its field boundaries.
- Creating a system of plot-id and accurate determination of field boundaries after sub-division for part parcel takes is affected.
- This will require that for every plot-id, there is a set of boundary and enjoyer.
- Valuation of property/land is based upon verification of support document presented at the time of registration. There is a need to take care of

Encumbrances (Presently with Registration Department)

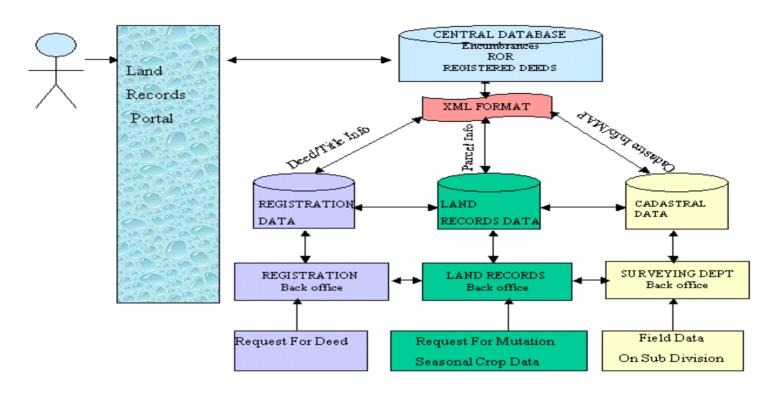
Physical measurements of land/property (With Survey)

Rights and Ownership/ Present Enjoyer/Occupancy (With Revenue)

Due to considerable autonomy in functioning of these departments as well as Procedural delay and legal aspects, problem in records continues.

• There is need to bring an systemic integration among the three departments.





Towards clear titles

Sustaining LRIS



As a Coordinateray

..we help MRD to formulate guidelines

..we define suitable H/W & S/W configuration

..we advise on technology upgradations

As a Monitoring group

we keep track of project progress... in states

we conduct video conferencing...we ministry and state revenue department for feedback on delays and performance

we host a site "dolr.nic.in" that displays up to date information related to all aspects of this project.

As a Developer/ Technical experts

..we conduct SRS/ Design/ Workflows

-- PMP/TQM/SCM

..we LRIS Design and Customization

..we conduct Unit and System Testing of applications ready for implementation

As an Enabler

..we provide technical guidance on LR specific software requirements

..we conduct workshops and technical symposium for LR state teams to enable incorporation of new technologies into LR s/w

..we provide training to end users on computer awareness and LR Technologies



Thanks for your kind attention and valuable time....

.....lrisd