Innovative Practices of "Dharnaksh"

Presented by
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http://www.dharnaksh.com
AGENDA

• Background
• Goa Revenue Profile
• Pre-Liberation Scenario
• Post-Liberation Scenario
• Schemes Driving the Land Reforms
• Milestones Achieved
• Achievements
• Road ahead
Revenue Profile of Goa

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>GOA AREA</td>
<td>3702 Sq. km.</td>
</tr>
<tr>
<td>Districts</td>
<td>2</td>
</tr>
<tr>
<td>Villages (Rural ROR)</td>
<td>421</td>
</tr>
<tr>
<td>Cities (Urban ROR)</td>
<td>4</td>
</tr>
<tr>
<td>Rural Properties</td>
<td>703243</td>
</tr>
<tr>
<td>Urban Properties</td>
<td>41776</td>
</tr>
</tbody>
</table>

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19-Dec-15
Background - Pre-Liberation Scenario

<table>
<thead>
<tr>
<th>Portuguese Documents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Old Cadastral Plans</td>
</tr>
<tr>
<td>Registo Do Agrimensor</td>
</tr>
<tr>
<td>Caderneta Do Campo (Field Book)</td>
</tr>
<tr>
<td>Auto-De-Demarcacao</td>
</tr>
<tr>
<td>Indices (Numerical &amp; Alphabetical order)</td>
</tr>
</tbody>
</table>
Old Cadastral Plan during Portuguese regime
Registo Do Agrimensor

Venancio Furtado, Director, Settlement & Land Records, Government of Goa
Caderneta Do Campo (Field Book)

Auto-De-Demarcacao

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Indices

Numerical

Alphabetical
# Post-Liberation Scenario

<table>
<thead>
<tr>
<th>Post-Liberation Land Records Documents Created</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Record of Rights (Form I)</strong></td>
</tr>
<tr>
<td><strong>Gunakar Book (Form II)</strong></td>
</tr>
<tr>
<td><strong>Soil Classification Book (SLT)</strong></td>
</tr>
<tr>
<td><strong>Index of Lands (Form III), Form B</strong></td>
</tr>
<tr>
<td><strong>Form D, Form I &amp; XIV</strong></td>
</tr>
<tr>
<td><strong>Survey Maps (Plane Table Sheets)</strong></td>
</tr>
</tbody>
</table>
## Record of Rights (Form I)

<table>
<thead>
<tr>
<th>Cultivable Area</th>
<th>Ha.</th>
<th>Name of Occupant</th>
<th>Mutation No.</th>
<th>Name of Tenant</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) Dry Crop</td>
<td>0.01</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(b) Garden</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(c) Rice</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(d) Vegetable</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(e) Coriander</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Other rights**
- Name of the person holding rights and nature of right
- Every person holding to show the subordinate rights

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**Assessment Acre**
- Rs. P.
- Rs. K.

**Year**
- 1976-77

**Name of Cultivator**
- Vikasinh Madhavchandra Vishnudas Kavardcavle

**Mode**
- &

**Season**
- Kharif

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**Source of Irrigation**
- It is

**Remarks**
- Other
## Gunakar Book (Form II)

### Area Calculation Statement

<table>
<thead>
<tr>
<th>No.</th>
<th>Date</th>
<th>Kind of</th>
<th>Length</th>
<th>East</th>
<th>West</th>
<th>North</th>
<th>Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dec 19</td>
<td>A</td>
<td>95.0</td>
<td>94.0</td>
<td>93.0</td>
<td>92.0</td>
<td>91.0</td>
</tr>
<tr>
<td>2</td>
<td>Dec 19</td>
<td>A</td>
<td>12.0</td>
<td>11.0</td>
<td>10.0</td>
<td>9.0</td>
<td>8.0</td>
</tr>
<tr>
<td>3</td>
<td>Dec 19</td>
<td>A</td>
<td>10.0</td>
<td>9.0</td>
<td>8.0</td>
<td>7.0</td>
<td>6.0</td>
</tr>
<tr>
<td>4</td>
<td>Dec 19</td>
<td>A</td>
<td>6.0</td>
<td>5.0</td>
<td>4.0</td>
<td>3.0</td>
<td>2.0</td>
</tr>
</tbody>
</table>

**Town:** Panaji

**District:** 9th

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19-Dec-15
Soil Classification Book (SLT)

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Index of Lands (Form III)

Form B

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Land Records, Government of Goa
Manual Records

Form D

Form I & XIV
Survey Maps (Plane Table Sheets)
• **Schemes driving the land reforms**

1. Computerisation of Land Records (CLR) started in 1988-89 with 100% financial assistance

2. Strengthening of Revenue Administration and Updating of Land Records (SRA & ULR) started in 1988-89 with 50:50 financial assistance

3. National Land Records Modernization Programme (NLRMP) approved by union cabinet in October 2008
Milestones Achieved

- First State in the country to Computerize 100% Land Records (October 2001)
- DHARANI RURAL in use at 12 Talukas
- DHARANI URBAN in use at 4 City Survey Offices
- The Dept. of Revenue maintains the record of Ownership/ Holders/ Lessees/ Other Rights/ Cultivators etc.
- The Property card maintained by Revenue Dept is known as the Record of Rights (ROR)
- ROR is available at all 12 taluka, 4 city survey offices
- LR Metadata Standardization was undertaken and completed
- By March 2010, 12 talukas migrated to web-enabled solution Dharani Rural v2
- Dharani Urban v2 launched in Jan 2011 for all four City Surveys
DHARANI Services

- DSLR website for providing free ROR to citizens
Computerised Records
Form D

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16-12-2015
Milestones Achieved

✓ DSLR website http://dslr.goa.nic.in provides ROR for free in the prescribed format with 3.85 lakh hits
✓ Conversion of entire Rural and Urban LR Data from ISFOC to UNICODE during October 2010
✓ DHARANI has undergone ISO 9001 audit by STQC during 2009
✓ IT audit of Dharani by CAG as recommended by DOLR, GOI
✓ 1.2 Lakh ROR Digitally Signed in Bardez taluka on 29th & 30th December 2012
✓ Digitally Signed ROR available through DHARANI Rural v3.0 since 9th Jan 2013
✓ Digitally Signed ROR to be made available on internet through DHARNAKSH --- service is launched from June 2013 and is running efficiently.
INNOVATIVE PRACTICES IN LAND GOVERNANCE BY DIRECTORATE OF SETTLEMENT AND LAND RECORDS.

1. It is also a matter of pride to announce that the Directorate has completed 100% Computerisation of Cadastral Maps of the State of Goa. Computerized certified copies of plans/maps are available to the public between one to three days after application depending upon the complexity of the plan and requirements.

2. In the year June, 2010, the department took up a project named “Dharnaksh” through which the Department has launched the integrated Land Records (Form XV & Form J for villages & City respectively) which is the combination of ROR and survey plan. For these achievements, the Department of Settlement & land Records, had won e-Governance national Award 2009-10 of Computer Society of India, a prestigious organization encouraging e-Governance in the Country. In June 2012, the Department launched its own user friendly website www.dharnaksh.com which facilities any user in the world to view and print extracts of land records at the click of a button. Ever since its inception, we have received enormous response from the users globally with website receiving more than 142382 hits till date and about 6832 registered users extracting copies of land records through payment gateway without having to visit office of land records. Every day, about 100-150 hits are recorded. For this remarkable achievement, the Geospatial World Award of Excellence has been conferred to the Department for its GIS achievement “Dharnaksh – Land Records From Anywhere” in May, 2013 which was presented at Rotterdam, Netherlands.

3. The Directorate will be now commissioning issue of digitally signed land records documents through its website www.dharnaksh.com after which one can obtain a land record document online having legal sanctity for all purpose.
Dharnaksh Video

19-Dec-15

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# Dharnaksh – User Statistics

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Countries from where maximum users have registered with site</td>
<td>India, USA, UAE, Australia, UK</td>
</tr>
<tr>
<td>Hits to Dharnaksh website</td>
<td>1,42,382</td>
</tr>
<tr>
<td>No. of registered users</td>
<td>6,832</td>
</tr>
<tr>
<td>No. of land parcel extracts viewed</td>
<td>1,59,425</td>
</tr>
<tr>
<td>ROR Extraction at Dharnaksh</td>
<td>35,895</td>
</tr>
<tr>
<td>Paid Transactions</td>
<td>1,119</td>
</tr>
<tr>
<td>ROR access at DSLR Portal</td>
<td>1 million +</td>
</tr>
</tbody>
</table>
Then Mutation cell’s ICT Infrastructure

**Setup at Taluka Offices**

- **Windows 2000 Server**: 1 No
- **Router**: 1 No
- **Leased Line Modem**: 1 No
- **Switch**: 1 No
- **Cartridge Drive (24 GB Backup)**
- **Fingerprint Readers**: 2 Nos
- **Windows 98/2000 Clients**: 2 Nos
- **Printers**: 2 Nos.
- **UPS (500 V)**: 2 Nos.
- **UPS (1KV)**: 1 Nos
## Land Records

<table>
<thead>
<tr>
<th>Record Description</th>
<th>Manual Records</th>
<th>Computerised Records</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rural Record of Rights (Form I &amp; XIV)</td>
<td>Form I &amp; XIV</td>
<td>Form I &amp; XIV</td>
</tr>
<tr>
<td>Index of Lands (Form 3)</td>
<td>Form 3</td>
<td></td>
</tr>
<tr>
<td>Mutation Register (Form IX)</td>
<td>Form IX</td>
<td>Form IX</td>
</tr>
<tr>
<td>Notice (Form X)</td>
<td>Form X</td>
<td>Form X</td>
</tr>
<tr>
<td>Form XIII from Sub-Registrar</td>
<td>Form XIII</td>
<td>Form XIII</td>
</tr>
<tr>
<td></td>
<td>(from Gauri)</td>
<td>(from Dharani)</td>
</tr>
<tr>
<td>Urban Record of Rights (Form D)</td>
<td>Form D</td>
<td>Form D</td>
</tr>
</tbody>
</table>
Process of online updation of Maps

• **STEP 1:** Create Vector Land Parcel and Map Database
Process of online updation of Maps

• **STEP 2:** Provide public information services
Data Security—Biometric Verification

- Data updation is allowed by software only after biometric verification (fingerprints) of Updating Authority and Approval Authority.
Registration Process

using **GAURI**

**STEP 1:** Document Scrutiny and acceptance

**STEP 2:** Valuation and Stamp duty Calculation

**STEP 3:** Receipt Generation

**STEP 4:** Final Registration

- Final Registration and generation of Endorsement copies for signatures

**STEP 5:** Scanning And Archiving

- Staff

**STEP 1, 2, 3** on Computer No. 1

- Step 4 on Computer No. 2

- Step 5 on Computer No. 3
Form XIII Manual Records

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Area</th>
<th>Assessment</th>
<th>Tenure</th>
<th>Name and Residence of the executor of the document</th>
<th>Name and Residence of the person in whose favour the document is to be executed</th>
<th>Where the registered transaction is by order of Court of other authority</th>
<th>Amount in consideration of the transaction</th>
<th>Date of the registration of the document</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>Sale Deed</td>
<td>5/1</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Mr. Shamil Shri D. Mrs. Rahela Shri Dhar Sardessai</td>
<td>D. Mrs. Rahela Shri Dhar Sardessai D. Mrs. Rahela Shri Dhar Sardessai</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Mr. Shamil Shri D. Mrs. Rahela Shri Dhar Sardessai</td>
<td>D. Mrs. Rahela Shri Dhar Sardessai D. Mrs. Rahela Shri Dhar Sardessai</td>
<td>-</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td></td>
<td></td>
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<td></td>
<td></td>
<td>Mr. Shamil Shri D. Mrs. Rahela Shri Dhar Sardessai</td>
<td>D. Mrs. Rahela Shri Dhar Sardessai D. Mrs. Rahela Shri Dhar Sardessai</td>
<td>-</td>
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<tr>
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<td></td>
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<td>-</td>
<td>-</td>
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<td></td>
<td>Mr. Shamil Shri D. Mrs. Rahela Shri Dhar Sardessai</td>
<td>D. Mrs. Rahela Shri Dhar Sardessai D. Mrs. Rahela Shri Dhar Sardessai</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

19-Dec-15

Venancio Furtado, Director, Settlement & Land Records, Government of Goa
### Form XIII Computerised Records

**Form No. XIII**

<table>
<thead>
<tr>
<th>Number</th>
<th>Name of village in which the land is situated</th>
<th>Nature of the document</th>
<th>Survey No. (or Plot No.) &amp; Sub-division No. or Name of the field affected by transaction</th>
<th>Area Ha.</th>
<th>Ars.</th>
<th>Assessment</th>
<th>Tenure</th>
<th>Name and Residence of the executor of the document</th>
<th>Name and Residence of the person in whose favour the document is to be executed</th>
<th>Where the registered transaction is by order of Court or otherwise</th>
<th>Amount in consideration of the transaction</th>
<th>Date of the registration of the document</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>Maem</td>
<td>Sale Deed</td>
<td>Property 339/1</td>
<td>9025.00</td>
<td>Sq. Mts.</td>
<td></td>
<td></td>
<td>1) Mr. Alfredo Pereira alias Alfredo Jose Pereira 2) Mrs. Sunita Belinda Pereira r/o H.No. 67, Barazen, Corjuem, Aldona, Bardez, Goa</td>
<td>1) Mr. Rama Yeshwant Gaonkar r/o H.No. 18/1, Vainguinim, Mayem, Bicholim, Goa 2) Mrs. Priya Premendra Shet and 1 more purchaser</td>
<td>45,12,500/-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Maem</td>
<td>Sale Deed</td>
<td>Plot No. C 151/1</td>
<td>250.00</td>
<td>Sq. Mts.</td>
<td></td>
<td></td>
<td>1) Mr. Abhijit Adinath Shendure and his wife 2) Mrs. Samira Abhijit Shendure r/o 263, Vithalapur, Sankhalim, Goa.</td>
<td>1) Mrs. Sandhya Krishnachandra Chauhan r/o H.No. 42, Chitrakhor, Thanhaya Mudiyar, Basit Madhya Pradesh</td>
<td>1,75,000/-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Maem</td>
<td>Sale Deed</td>
<td>Plot No. D 151/1</td>
<td>250.00</td>
<td>Sq. Mts.</td>
<td></td>
<td></td>
<td>1) Mr. Abhijit Adinath Shendure and his wife 2) Mrs. Samira Abhijit Shendure r/o 263, Vithalapur, Sankhalim, Goa.</td>
<td>1) Mrs. Rajkumari B. Chouhan r/o H.No. 724-C, Near St. Cruz, Chapell Marvel, Taligao Tiswadi, Goa</td>
<td>1,75,000/-</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Integration of Property Registration (SRO) with Mutations (ROR)

- Gauri Software implemented by Department of Information Technology, Government of Goa and developed by CDAC Pune.
- Integration of Gauri with Dharani is done by National Informatics Centre, Goa.
- Flowchart showing integration of GAURI WITH DHARANI
Achievements

100% completion of Computerization

26th October 2001 - Inauguration at Pernem Taluka by Shri Venkaiah Naidu the Union Minister for Rural Development, Goa

First computerized ROR being issued

During 26th October 2001 inauguration by the ex. Revenue Minister
Mutation process went live

- Complete Mutation Process in place in all 11 Talukas of Goa during Mid 2002
- No manual process followed since then

• Former Chief Minister of Goa operating the Multilingual Dharani Touch Screen Kiosk
ICT Infrastructure provided for Dharani during 2003
Goa’s first CSC delivering ROR services

Mahiti Ghars issuing ROR since 2004
13 Mahiti Ghars were functioning in Goa
Achievements

Goa Broadband Network provides 1GBPS bandwidth
Acheivements

CSI-Nihilent e-Governance Awards 2009-10

The Award of Excellence in
Department Category
is hereby conferred upon
Directorate of Settlement & Land Records, Government of Goa

On the 26th of November 2010 at Mumbai

Piyush Gupta
Convener
CSI-Nihilent e-Governance Awards

Prof. P. Chirimurthy
President
Computer Society of India

L. C. Singh
President & CEO
Nihilent Technologies
Certificate

GEOSPATIAL WORLD EXCELLENCE AWARDS

for Application of Geospatial Technology in Land Records Management to

Directorate of Settlement and Land Records, Government of Goa, India and Goa Electronics Ltd., India

for developing and utilising “Dharmaksh - the Land Records Portal”, making Goa the first state in India to implement a robust, reliable and people friendly land records management system which offers the citizen certified copies of land records and rights of any cadastre parcel in the state.

19th May 2013
Rotterdam, The Netherlands

Dr. Hrishikesh Samant
Geospatial World Awards 2013 Coordinator

Sanjay Kumar
Geospatial Media and Communications Pvt. Ltd.
## Stakeholders

<table>
<thead>
<tr>
<th>Role</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Director, Settlement &amp; Land Records</td>
<td></td>
</tr>
<tr>
<td>Collectors North Goa &amp; South Goa</td>
<td></td>
</tr>
<tr>
<td>State Registrar, Law Department</td>
<td></td>
</tr>
<tr>
<td>National Informatics Centre, Goa for Textual ROR Solutions</td>
<td></td>
</tr>
<tr>
<td>Goa Electronics Ltd &amp; Vision Labs, Hyderabad for Cadastral Map Solutions</td>
<td></td>
</tr>
<tr>
<td>Dept. of Information Technology, Govt. of Goa &amp; CDAC, Pune</td>
<td>for Property Registration Solutions</td>
</tr>
</tbody>
</table>

**THANK YOU**