# eGov@Gujarat
*- An e-Governance Bulletin from GUJARAT INFORMATICS LTD.*

## eGov in R&B

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**Editorial Team**

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# eGovernance in Roads & Building Dept.

## PREFACE

**Gujarat Roads & Building Department** also synonymously understood as Public Works Department is an apex government body for development and maintenance of infrastructure facilities within the state of Gujarat.

Higher authorities of the department envisaged the prospective need of information system and this application software was incepted. The system entails major function such as Proposal and application acceptance, Administrative approval, Technical Sanction, Rate Analysis, Schedule of Rates, drawing records, vendor registration, etc

The primary responsibility of this information system is to help the authorities of varied functional position, with data and information related to the functions under their control, for better and efficient departmental operation. So overall, our system facilitates and leads the authorities for efficient governance of department's operation for the benefits of the citizen.

The application system was conceptualized after having series of meetings with the senior authorities of the Road and Building Department - Gujarat State Government. Their expert opinion and knowledge proved of vital importance for making a compatible and strong information system, perceptible to the users of this department.

## Functionality of Department

- Preparation of structural designs for bridges and buildings
- Preparation of Road Maps and related database
- Research in Civil Engineering
- Road, Building and other inventories with history details and log records
- Stores Monitoring
- Monitoring Tender Bids
- Works Monitoring
- Judiciary Litigation
- Schedule of rates
- Quality Control
- Department Works Monitoring / Project Planning & Monitoring
- Monitoring of Emergency

## IT Initiatives

- Appointment of TSP
- Procurement of Computer hardware & system software for Sachivalaya.
- Plan to purchase 150 computers from World Bank project.
- All current year works related data entry is in progress & will be completed April 05
- Dept's own website (www.rnbgujarat.org)

- Developed website for World Bank Aided project.
- Training: Module-1 training to more than 1182 personnel & Module-2 training to more than 92 personnel.
- Computer Aided Design programs being used for preparation of Buildings, Bridges & Architectural drawings.
- Pay bill generated through computer.
- More than 600 Dept. personnel have been trained on Dept. specific software including sensitisation training.

## Departmental Software Applications

- **Works Monitoring System**
  - Application for works including tendering, work allocation, project monitoring and commissioning.

- **Budget Monitoring System**
  - Allocation, disbursement and Expenditure of funds.

- **Schedule of Rates**
  - Maintain details of division wise rates.

- **Contractors Registration**
  - Contains Details of contractors who have been registered with the department.

- **Staff Training College**
  - Details of training imparted.

- **Capital Project**
  - Allocation of houses and Rent collection (In Gujarati)
  - Water Supply and Drainage Charges.

- **Quality Control**
  - Details of work inspected
  - Statement of test material

- **Asset Management** (Inventory of Roads, Buildings and Bridges)
  - Details of roads, building and bridges including geographical, geometrical and jurisdiction details.

- **Electrical Circle**
  - Details of electrical goods and electrical parts.

- **Mechanical Circle**
  - Details of Machinery and Vehicle's Used by different Office.

- **Drawing Branch**
  - Details of charts or drawings of related works.

- **Traffic Registration**
  - Maintain traffic statistics at different check posts.

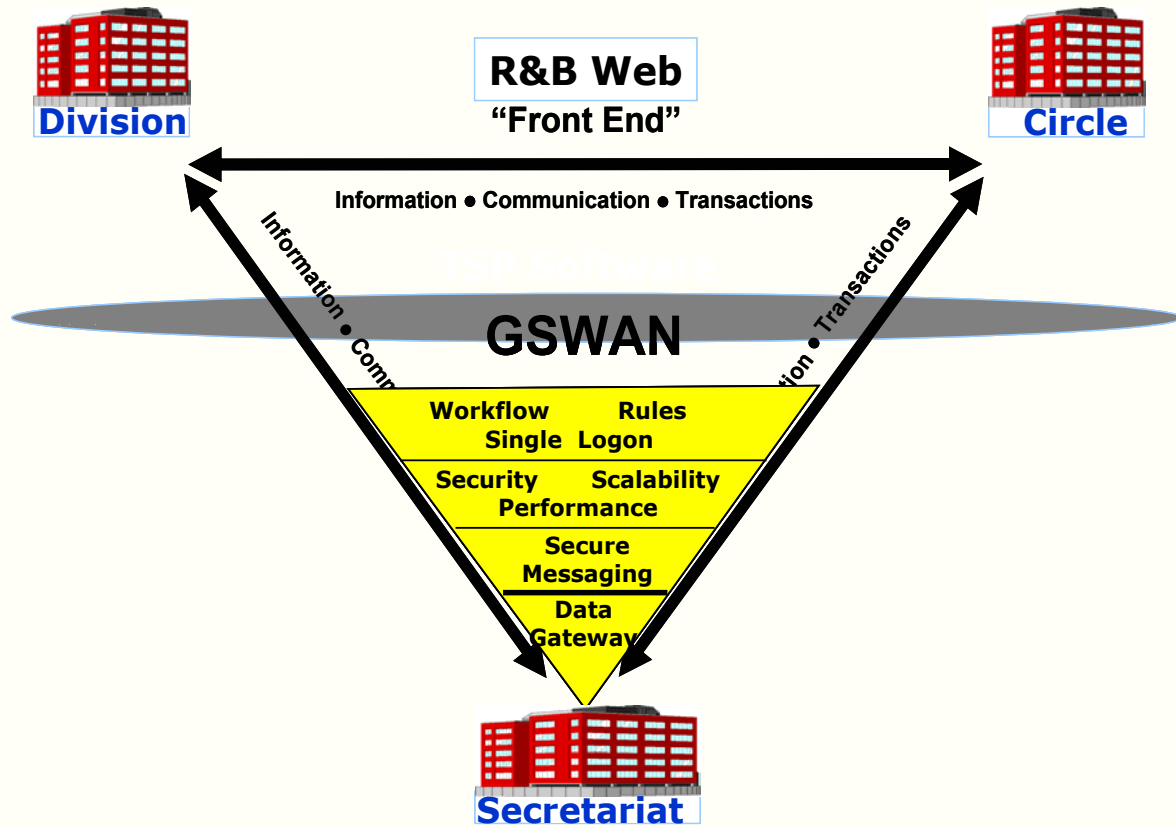- **Stores**
  - Inventory Maintenance.

## Salient features of the System

- Web based & integrated application.
- Decision Supporting System
- User friendly Menu based application.
- Audit Trails
- Daily Auto-backups
- Intranet for the entire state
- Centralized Data warehouse at State Headquarters
- Search Engine / user defined reports for each layer of the databases
- Work flow automation at all levels for better collaboration.

## Software Development Platform

- **Operating System**
  - Windows 2000 Advanced Server

- **Front-end tools**
  - Active Server Pages (ASP) & VB

- **Back-end RDBMS**
  - MS-SQL 2000 Server
  - Office Automation tool (MS-Office)
  - Work Flow Automation tool (Exchange Server)

- **Web Server**
  - Internet Information Server (IIS)
  - Gujarati Tool - CDAC

## Framework of Web based Solution

**Division**

**R&B Web**
**"Front End"**

**Circle**

Information • Communication • Transactions

Information • Comm...

...tion • Transactions

**GSWAN**

Workflow      Rules
Single  Logon

Security      Scalability
Performance

Secure
Messaging

Data
Gateway

**Secretariat**

## IT Advantages

- Transparency

- Streamline overall process

- Improve access for strategic data at any given point of time from any where.

- Reduce costs of: Paper, Manpower, Telephone, Transportation, etc.

- Improve return on investments.

- Manage geographically dispersed assets more effectively.

- Due to Web-based software old computers can be utilised at Circle/District offices.

## Future Plan

- TSP Software implementation up to Sub Division Office level with Bill Monitoring System

  (Phase-1 was up to Division office level)

- Repetitive Training to staff

- GIS based Road Management System

- E-Tendering

## Challenges & overcoming

- **IT awareness up-to bottom level.**
  - Constant training to all dept. personnel.
  - Involvement of all cadre officers while deciding software application.
  - To give one data-entry operator for few months to each Circle office to enter historical data & to assist concern officer.

## Screen-shots of Software Applicaiton
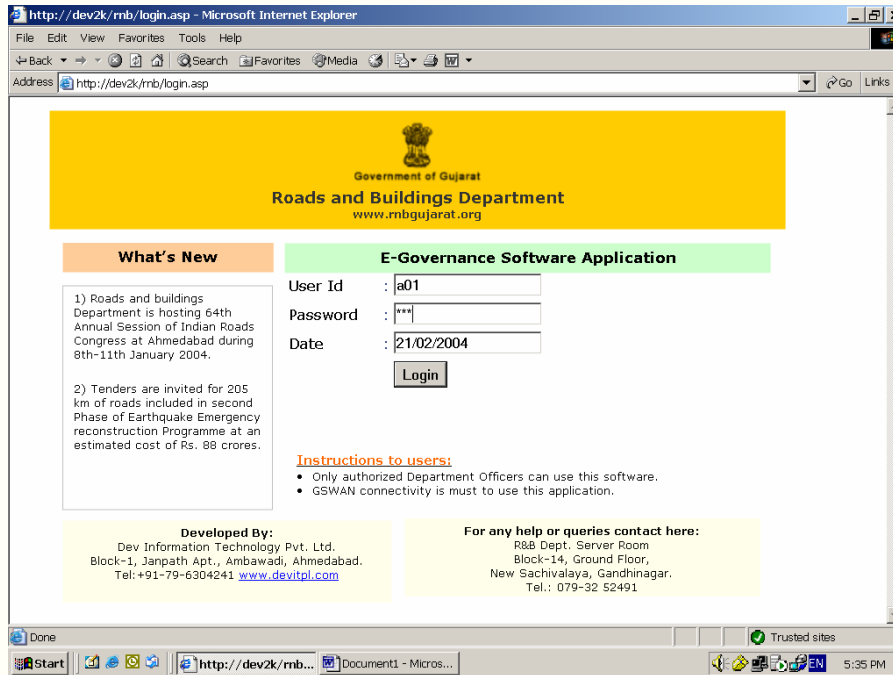


### e-Governance Software Applications - Login Page
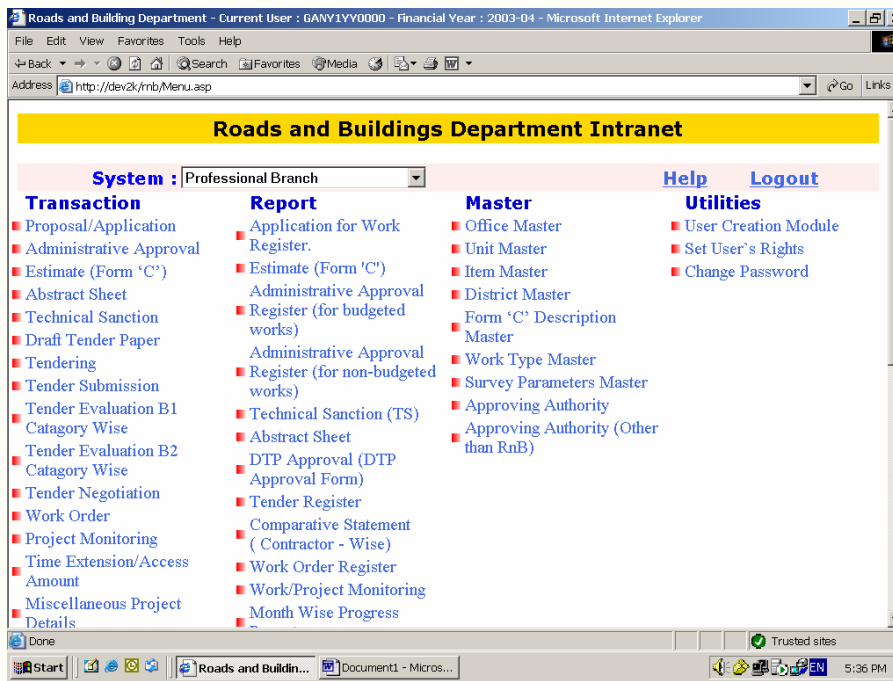


### E-Governance Software Applications – Main Transaction Page

## Screen-shots of Software Applicaitons



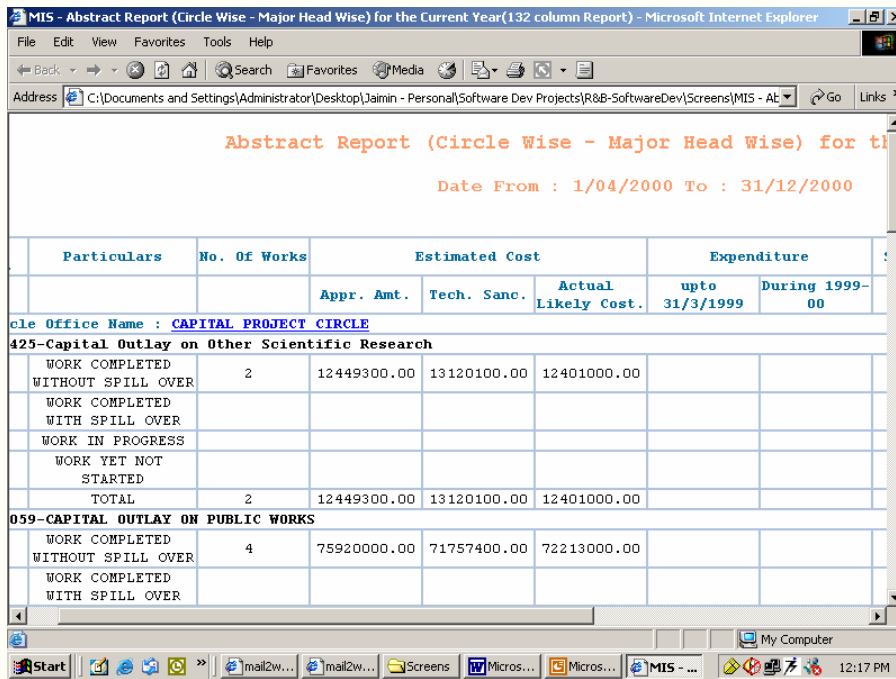**E-Governance Software Applications – User Creation module**



**E-Governance Software Applications – Set user's rights**

## Screen-shots of Software Applicaitons
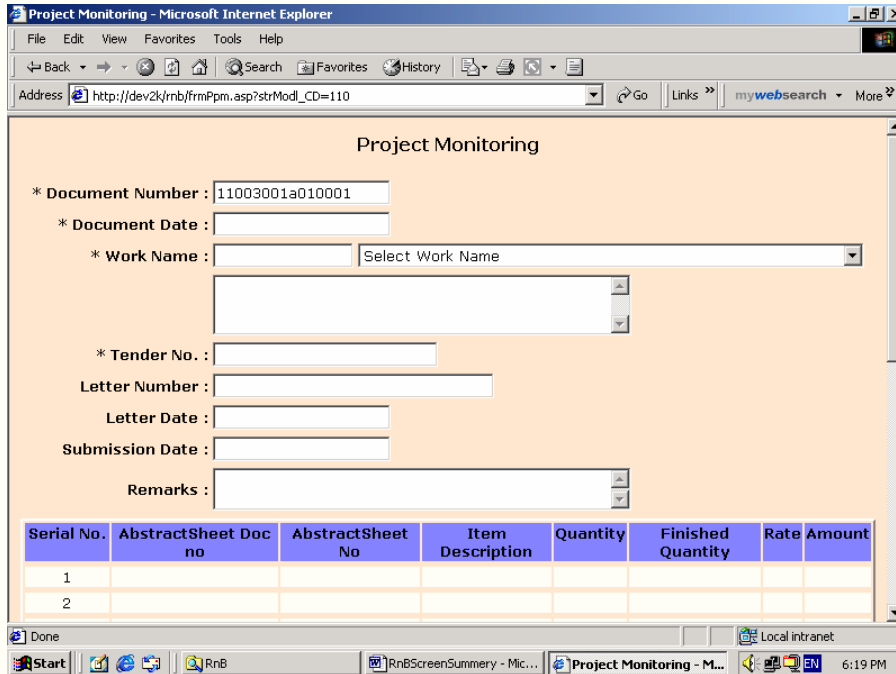


**E-Governance Software Applications – project monitoring module**



**E-Governance Software Applications – abstract report**

# eGovernance News

## National eGovernance Aciton Plan (NeGAP) Workshop with Prinicipal Secretaries, States/UTs

Government of India has formulated a National eGovernance Action Plan (NeGAP) that aims to expedite deployment of ICT in governance with a view to improving delivery of government services to citizens and business. The Central Government is also keen to ensure that the NeGAP is implemented as a programme at all levels of government and that achieves strategic goals set our for it.

As a part of this effort, the Central Government is currently undertaking a dialogue with the World Bank for financial & programme management support for NeGAP. Accordingly, as part of this project preparatory dialogue, DIT, GOI and the Planning commission has organized a two day workshop at Delhi, where the Secretaries of State governments have participated during 11 -12 March 2005

The agenda for the workshop was as follows:

- Views of the State Governments with regards to their interest in implementing any or all the proposed State Mission Mode Projects (MMPs) or any other proposed priority projects of the State Government
- Views of the State Governments with regard to participating in such a World Bank aided programme
- Priorities of the State Governments with regards to the phasing of the various MMPs
- Discussion on the proposed project preparation template and costing of such MMPs
- The detailed governance structure and funding mechanism envisaged by the State Governments for such a programme
- Discussion regarding the guidelines for capacity building in states using ACA 2004-05 to be implemented un 2005-06

## Conference on
## E-transformation: Opportunities in Governments, Public Institutions & Finance

An International Conference was held during 16-18 March 2005 on E-Transformation at New Delhi sponsored by SAP, Microsoft, and Oracle & Satyam. It was held to bring together the World Bank's clients and top IT industry players to present participants with the latest trends in financial technology and e-Government initiatives. The program was designed for senior executives to meet and network with peers to discuss opportunities, learn from case studies within the industry and to strengthen business relationships.

The conference was comprised of two streams focusing on:
1. E-government opportunities, and
2. Treasury asset/liability, pension management systems and corresponding IT enabling environment

The senior officials of the following company/body have made their presentation on the track of E-Government Opportunities.

Day-1 (16 March 2005)
- Minister of Communications and Information Technology, India
- The World Bank
- Head of BSG Financial and Public Services, SAP
- Barry Ridgway, Regional Director, Microsoft Singapore
- Senior Vice-President, i-flex Consulting and System Integration
- i-flex solutions
- Institute for Knowledge Management
- Senior Vice President, Oracle

Day-2 (17 March 2005)
- Carlos Braga, Senior Adviser, The World Bank
- R. Chandrasekhar, Joint Secretary, E-Governance India
- Alisoun Moore (USA), Joan McCalla (Canada)
- Dr. Jeongwon Yoon (Korea)
- Mohan Mirwani (Singapore)
- Rohan Samarajiva (Sri Lanka)
- Javier Perez Mazatan (Mexico)

Day-3 (18 March 2005)
- Joe Lott, Director, Hewlett-Packard
- National Institute for Smart Government
- Charlie Watt, CIO, Scottish Enterprise

## Web Corner

**Road & Building Dept., Govt. of Gujarat**
http://www.rnbgujarat.org

**Maharashtra Public Works Dept., Govt. of Maharashtra**
http://www.mahapwd.com

**Kerala Public Works Dept., Govt. of Kerala**
http://www.keralapwd.net

**Mizoram Public Works Dept., Govt. of Mizoram**
http://mizopwd.nic.in

Please look out for this section for URLs of Government websites

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