TAMIL NADU-
The Success Story of a Premier IT Hub

The state of Tamil Nadu with its capital at Chennai has established itself as a leader in the IT industry with reliable and efficient infrastructure, excellent trained manpower skills, proactive approach of the state administration and a zeal to grow.

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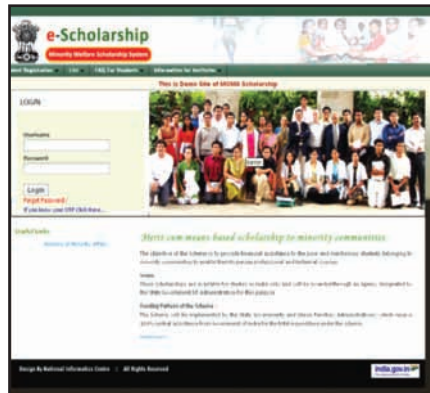State Informatics Officer
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NIC, Tamil Nadu State Centre has been actively providing support to the State Government in all its endeavours in implementing various e-Governance projects. Some of the recent successful projects are highlighted below.

MERIT CUM MEANS SCHOLARSHIP – MOMA
(**http://escholarship.gov.in**)

Merit cum Means Scholarship scheme of Ministry of Minority Affairs provides financial assistance to the poor and meritorious students of the Minority communities for studying professional courses. A web based system has been designed and developed as a part of the e-Scholarship project wherein the students can apply for scholarships online. This system facilitates quicker processing of the applications and infuses more transparency by providing students a facility to view the status online. More effective monitoring by Ministry and State Directorate is also facilitated.

The workflow is configurable for each state. The system handles fresh & renewal applications, listed and unlisted institutions. SMS Alerts to students after registration and scholarship disbursement are also provided.

The system is being implemented across the state. So far, 10806 institutions have registered. In the year 2011-2012, about 2,11,561 students submitted their applications online. More than 2.59 lakh students have applied online in the academic year 2012-2013.
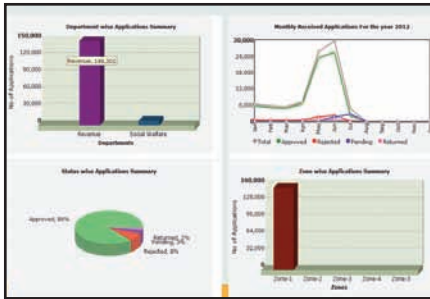
e-DISTRICT – REVENUE

The main objective of the e-District Revenue project is to facilitate citizens to apply for various certificates through CSCs/online. There is a built in electronic workflow to the system for processing the applications.

Digital Signing facility for approving officers, Dashboard for State / District level Officers, 2D Barcode encryption and online verification of the certificates using mobile scanning with GPRS have been implemented.

The citizen services covered under the project are - No Graduate Certificate, Deserted Women Certificate, Income Certificate, Community Certificate and Nativity Certificate.

The project was launched in October 2010. More than 2.15 lakh certificates applications have been filed since then

and 1.5+ lakh certificates have been digitally signed and issued. Online filing of applications by schools for Community, Income & Nativity certificates on behalf of students, has been implemented in Tiruvallur. So far, 82000 certificates have been issued in 950 schools.

e-SERVICES FOR COMMERCIAL TAXES

The main objective of this application is online filing of VAT return anytime/anywhere, online issuance of Transit Pass to the dealers who are moving goods to other states, online issuance of C and F forms for interstate transactions and enabling e-Payment facility for collection of taxes.

The main features of online C and F

forms are filing of Annexure IA along with the e-Returns, cancellation and regeneration of online forms with the approval of Circle Offices and verification of genuineness of online forms by other state dealers.

The main features of e-Transit Pass includes 24 X 7 online generation of e-Transit Pass for vehicles passing through Tamil Nadu; printing of e-Transit Pass with unique Movement Number (MVR No); cancellation of e-Transit Pass, which is permitted within 24 hours of confirmation by dealer. Dealers can also view the status of vehicle movement passing through the check post.

Every month, more than 3.01 lakh dealers file their returns, while more than Rs. 2300 crores of tax amount is collected through e-Payment system enabled through 17 banks. Currently, an average of 53,000 C and F forms are issued online and more than 9000 Transit Passes are being issued.

e-SERVICES FOR TRANSPORT

The main services offered under the e-Services for Transport are - online filing of new vehicle registration application, online filing of learner's license application, online filing of Hire Purchase Agreement (Form-34), online filing of Hire Purchase Termination (Form-35), online payment of fee and taxes currently through five banks, online issuance of Heavy vehicle Driver's Training Course Certificate. The online filing of new vehicle applications is integrated with Vahan & Sarathi software.

More than 1, 57,000 new vehicle applications are filed every month.

80,000 Learner's licenses and 21,000 Heavy Vehicle Training Certificates have been issued so far. Besides this, 3100 Hypothecation Endorsement / Termination Applications are filed every month. An average of Rs. 140 crores per month is collected from 1,40,000 new vehicles being registered at RTOs across the state.

State Register for vehicles and licenses have been created and access has been given to the officials of Police, Passport and Civil Supplies to view the details of vehicles and licenses. Web service has been developed for retrieving details of vehicles / licenses and is being consumed by the Police Department with more than 80,000 vehicles and license details being accessed every month.

e-DISTRICT – SOCIAL WELFARE

The main objective of this initiative is to develop an efficient electronic workflow system for end-to-end processing of applications submitted either through Citizen Service Centres or directly through internet for availing the services of 6 Marriage Assistance Schemes of the Social Welfare Department.

Moreover, citizens can also file for applications and track the status online.

Automatic SMS alerts to the citizens are sent when sanction proceeding is generated. The system has been implemented in the state since October 2010.

GOVERNMENT e-PROCUREMENT SYSTEM

The main objectives of the Government e-Procurement application include:

■ Online enrollment of the Government officials & bidders,

■ Tender creation and publishing,

■ Publishing of corrigendum,

■ Publishing of pre-bid meeting documents,

■ Online bid submission/re-submission,

■ Two-factor authentication,

■ Facility for online payment collection through bank payment gateway,

■ Encryption of bids submitted by the bidders using Digital Signature Certificates (DSC),

■ Facility for single/two/multiple cover bid system,

■ Withdrawal of online bids,

■ Online tender opening,

■ Automatic evaluation of financial bid, Mail/SMS communication to bidders/Government officials,

■ Digital signing of files / documents,

■ e-Auction covering Forward/Reverse categories.

The application adheres to the guidelines of Central Vigilance Commission, Asian Development Bank and World Bank. The system so far has been implemented in the states of Orissa, Tamil Nadu, West Bengal, Uttar

Pradesh, Haryana, Chandigarh UT, PWD Punjab, Jharkhand, Himachal Pradesh, Tripura, Govt. of NCT Delhi, Maharashtra, Jammu and Kashmir, Uttarakhand, Rajasthan and Kerala.

Ministry of Rural Development has implemented the application for the PMGSY project in 21 states. Mahanadi Coal Fields (MCL) Limited, Orissa, Visakhapatnam Port Trust, IOCL, NICSI, Midhani, Goa Shipyard Limited have also successfully implemented e-Procurement application.

The following awards have been received by the application:

■ e-World 2011 Public Choice Award for implementation at MCL

■ CII-IT Awards 2011 for Auto Tech evaluation for MCL e-Proc System

■ Skoch Award-2010 under 'World is Open Category'

■ e-India 2010 Public Choice Award for implementation at MCL

■ e-India 2009 Public Choice Award for implementation at Govt. of Orissa

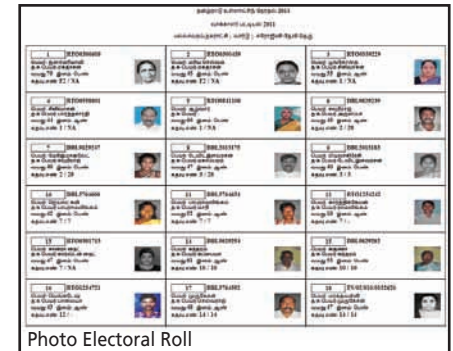■ India Tech Excellence Award - Eastern Zone – 2009

TAMIL NADU LOCAL BODY ELECTIONS 2011

The main objective is to create the voters' database for Local Body Elections from Electoral database and to handle the Electoral Roll printing and result dissemination for the Tamil Nadu State Election Commission.

The features of this project are: mapping voters from Assembly Constituencies to the local body's streets, wards and polling booths, printing draft electoral rolls, photo electoral rolls and booth slips for 4.62 crore voters; reservation entry for various local body posts, nomination entry of candidates and result entry.

The above system has been implemented in 32 districts, 385 blocks, 10 corporations, 151 municipalities and 525 town panchayats. About 1.3 crore hits were reported from the server on the day of result dissemination.
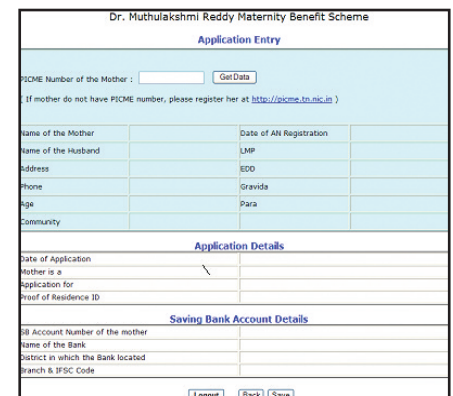
DR. MUTHULAKSHMI REDDY MATERNITY BENEFIT SCHEME

Photo Electoral Roll

Under this scheme, implemented by Directorate of Public Health and Preventive Medicine, financial assistance of Rs 12000 is given in three installments at 3 stages (Pre natal, Delivery and Post natal) to women from poor families.

The software was designed and developed for automating process of sanctioning assistance under MRMBS, validating eligibility criteria with PICME database, and monitoring disbursement of each installment of the scheme.

The work flow based software, which handles right from the capture of application details processing up to

generation of sanction proceeding, has been implemented. A linkage with PICME database for validation of eligibility criteria filtering only eligible women, maintenance of payment details, effective monitoring by District level Health Offices and integration with treasury by creation of ECS files are some of the important features of the application.

The application has been implemented since Dec 2011. So far 9.4 lakh women have applied for the benefit under the scheme. The number of women who have received the amount in the 1st, 2nd and 3rd installments are 8.22 lakh, 5.92 lakh and 4.39 lakh respectively.

e-PENSION SYSTEM

e-Pension is an intranet based workflow system which handles all transactions related to pensioners.

It is a centralized system built to handle the existing 7 lakh pensioners in the state. The main features of the intranet based application are – maintaining common database structure for all pensioners of Govt. of Tamil Nadu; work-flow based system for handling all transactions; capturing of images through web cameras for mustering, answering adhoc queries to pensioners immediately and correctly; automatic conversion to family pension in death cases; preventing wrong payment to non-eligible pensioners.

The payments done through transaction are approved by three levels viz Unit level, Superintendent
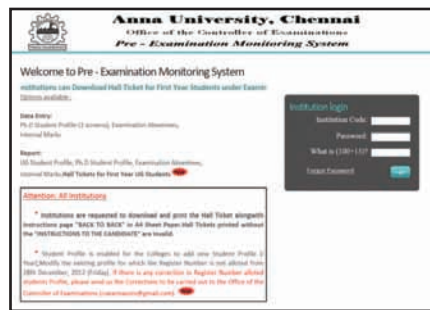

and Treasury Officer. The system handles 2,81,051 pensioners in 7 districts including 40 sub treasuries and PPO, Chennai.

PRE-EXAMINATION MONITORING SYSTEM FOR ANNA UNIVERSITY, CHENNAI

The primary objective of this web application is to enable the Controller of Examinations (CoE) to monitor all the 'Pre Semester Examination Processes' effectively.

The main features of this application are-Registering the students for the semester examinations, capturing the

periodical course attendance details, capturing the periodical internal assessment marks, generating Examination Hall Tickets for the eligible students, capturing examination absentees' details and publishing of Examination Results.

So far, profiles of about 1.6 lakh UG students and 2000 PG students have been uploaded by the institutions. Hall Tickets (as PDF Documents) for about 1.5 lakh UG students were generated and downloaded by the institutions. Internal Assessment Marks and Examination Absentees details of about 4.5 lakh UG students have been captured, which will be used by the CoE for examination results processing.
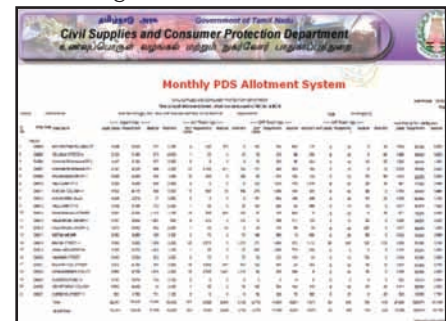
MONTHLY PDS ALLOTMENT SOFTWARE

This online system helps to arrive at

monthly PDS Allotments for all Fair Price Shops in the state. The main features are:

■ Monthly entry of number of cards (Fair Price shop wise) and commodity stock

■ Generation of over 60 statements and reports relating to allotment, Off take and sales of sugar, PDS/AAY/ANS/OAP rice, kerosene, wheat and special commodities at various levels, such as Fair-price shops, Agency/ Cooperative Society, wholesalers, godowns and taluks,

■ Allotment for Police cards and Bulk permits

■ Generation of Comparative Statements and Exception Statements for monitoring purposes

The system has been implemented in the state since August 2008, covering 232 Taluk Supply Offices, 29,560 Fair Price shops, 6545 Societies/Agencies and 244 godowns.

CRIME & CRIMINAL TRACKING NETWORK SYSTEM (CCTNS - TN)

An event based and workflow based application - CIPRUS, captures details of all cases registered at the Police stations and automates the process of disposing the cases including the investigation and prosecution besides generating FIR of the case. The data from all Police stations gets replicated at the central server using the service of default replication agent installed at all individual Police stations. From the

consolidated database the web enabled services are provided to the public (http://eservices.tnpolice.gov.in) to identify the missing persons and unidentified dead bodies and assist the Police Officers of the station and at higher level to search the criminals involved in the crime and maintain the history of the Police station and the cases registered. Citizens can also get to know the status of the cases registered at the Police stations on the web.

The application is targeted for more than 2000 Police stations of Tamil Nadu and integrates scanning and searching, automatic Version Control and Bilingual reporting. It handles all

the 5 types of cases (Crime, Law & Order, Prohibition, Accident & others) along with total of 30+ Sub case types and 13 different events of the investigation. It also handles the station history of both crime and demographic details. Pilot implementation of the project has been carried out at 119 Police stations of Tiruvallur, Ariyalur, Sivaganga Districts and Coimbatore City.

WEB ENABLED DISTRICT GIS FOR CUDDALORE & NAGAPATTINAM DISTRICTS

District GIS project has been initiated for two pilot districts viz. Cuddalore and Nagapattinam under the guidance of Tamil Nadu State Planning Commission. The spatial and non-spatial data were collated from various Government departments. More than 80 layers for Cuddalore district and 60 layers for Nagapattinam district have been prepared.

Salient features of the web based framework include:

■ Any layer may be dynamically linked to any kind of attribute dataset for querying and thematic mapping

■ Unique symbol mapping using non-numeric based data such as soil, geomorphology etc

■ Spatial search on administrative units

■ Dynamic spatial queries including buffer generation, distance based queries, villages without schools / health facilities at a specified distance, etc

■ Developed using Open standards

and Open source software tools

The other e-Governance initiatives taken up by NIC Tamil Nadu are as under:

■ e-Governance Portal for Directorate of Technical Education

■ e-Scholarship system under e-Dsitrict project for Department of BC and MBC and Department of Adi Dravidar (SC/ST)

■ Automated Treasury Bill Passing System (ATBPS)

■ SMS based Monitoring System for Fair Price Shops for the Cooperative Department

■ System for school enrollment for Directorate of School Education

■ System for distribution of milch cows/ sheep for Directorate of Animal Husbandry

■ Online filing of Entrepreneur Memorandum Form Part I and Part II for Directorate of Industries and Commerce

■ Pregnancy and Infant Cohort Monitoring and Evaluation System for Directorate of Public Health and Preventive Medicine

■ Online filing of application of Re-totaling and Revaluation for Directorate of Government Examination

■ Chennai Utility Mapping project