TAMIL NADU State Pursuing Excellence in e-Governance through Open Source Technology for ICT Solutions

The e-Governance projects are not only making the lives of the citizen easier by taking government services to their doorsteps, but have also made the administration quick, responsive, transparent, hassle-free, and easily accessible. With the State Government advising all Departments to prefer Open Source Software, almost all the projects are developed using Open Source Technologies.





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IC has been instrumental in architecting and implementing various e-Governance projects in the State with an aim to leverage IT for transparency and better governance. NIC, Tamil Nadu has partnered with the State Government in its endeavour to automate the government processes and reach out to the citizens using the latest trends and technologies in ICT.

SOFTWARE PROJECTS AT STATE LEVEL e-DISTRICT PROJECT

e-District has been envisaged by Government of Tamil Nadu as automation of workflow and internal processes of District Administration with the possibility of seamless integration of various departments including Revenue, Adi Dravidar & Tribal Welfare, BC and MBC welfare, District Social Welfare etc. for providing services through Common Service Centres (CSC) to the citizens. Some of the key projects in e-district are:

• Revenue

Citizens can now apply online through CSCs for 5 Revenue Certificates through this application with authentication and authorisation at different levels of the State Government. Biometric authentication is enabled through SRDH for more than 12k CSCs. 2 Crore individuals have been registered, 2.56 Crore digitally signed certificates with 2d barcode are issued through CSCs. 30 Lakh tiny URLs have been sent over SMS.

• Scholarship

Web based system to provide financial assistance to the poor and meritorious students belonging to BC/ MBC and SC/



The excellent technical support and expertise of NIC, Delhi & NIC, Tamil Nadu has undoubtedly been one of the key ingredients in the successful implementation of CCTNS in Tamil Nadu. Thanks to NIC, apart from the basic implementation of the project, many online services like Downloading of Road Accident Documents by Victims, Courts & Insurance Companies, Lost Document Report, SMS service for Citizens & Officers, Online Complaint Registration, Vehicle Status etc. falling in different delivery models like G2G, G2B & G2C have been launched by Tamil Nadu Police. Needless to say, the role of NIC in facilitating TN Police in its efforts to deliver efficient & effective services on e-governance platform is commendable.

SEEMA AGRAWAL ADGP State Crime Records Bureau (SCRB)

ST/ SSC communities to enable them to pursue education. Services offered are:

- Issuance of Post Matric Scholarships
- Educational Assistance to the students in Professional Courses (Under Graduates only)
- Graduates (Under Graduate and Post

Graduate)

• Polytechnic Students (Government and Government- Aided)

- Government of India Post Matric Scholarship for SC/ ST Students
- State Post Matric for SC converted to Christian Students

• Free Education upto Degree Level (Arts & Science)/ PG Level (Women) (Arts & Science)

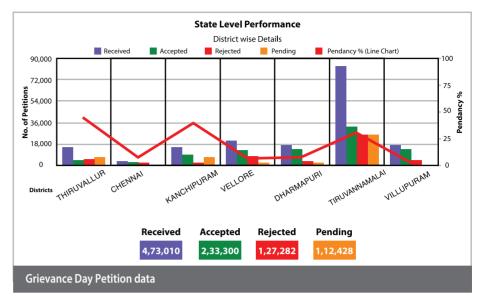
Students can file fresh applications for Scholarship or renew online through their respective Institutions. Funds are transferred to the Beneficiaries electronically.

Revenue Courts

Web based System to monitor the file disputes in Tenancy Laws Cases/ Mutation Appeal Cases covering both Fresh and Appeal Cases with major functionalities like Case Filing, updation of Cases, recording of Daily Proceedings, Cause List generation and scanning/ uploading of Judgment. Daily Cause List, Case Diary and summary of Cases (pending/ disposal) are generated.

• Social Welfare

Workflow based system for end-to-end processing of applications submitted by



Citizens through CSCs for 7 Schemes of the Social Welfare department.

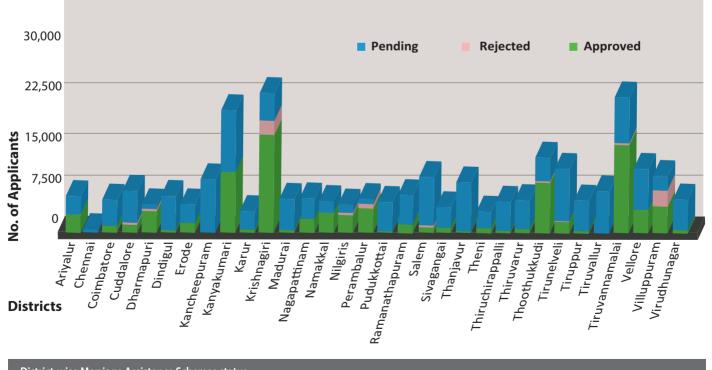
Grievance Day Petition

It is a Petition Processing Portal that facilitates the public to submit Grievance Petitions and to view the status in three modes, viz., Collectorate Counters, CSCs, and Online. Besides, it facilitates the concerned officers of different Departments at multiple levels of offices to process the petitions and the Senior Officers to monitor the process. It is a generic product and can be customized/ reused by any Department / Organization.

TAMILNILAM

Web Based TamilNILAM (Tamil Nadu Information system on Land Administration and Management) is aimed to modernize management of Land Records, minimize scope of land/ property disputes, and enhance transparency in the Land Records maintenance system.

Citizens can file application through



District-wise Marriage Assistance Schemes status



CSCs for Patta Transfer/ Sub division along with requisite backend processing. Chitta and A-Register Extracts are generated automatically and issued. Orders are digitally signed by Approving Authority and generated with 2D Barcode. Applicants are informed the status of the application at various stages through SMS Alerts.

The system is integrated with spatial-data provided by CollabLand for generating Field Measurement Book. It is also integrated with System for Registration of Documents for processing Form-6 details. Citizens can view/ print documents like Record of Rights, copy of A-Register, FMB. 21+ lakh Chitta and 14+ lakh A-Register Extracts have been viewed during December 2017. 5,000 Patta transfers are done daily on an average through this application.

CRIME & CRIMINAL TRACK-ING NETWORK & SYSTEMS (CCTNS)

CCTNS provides end-to-end solution for all the Police Stations, from registering a case (FIR), Investigation of the case to its disposal with generation of all Integrated Investigation Forms (IIF). It also provides automated solution for all the administrative activities of the Police Stations related with Crime and Criminal including Special Units.

Data from all Police Stations are replicated to the Central Server at State level for data dissemination to higher officials. Tamil Nadu is the only State where 100% Police Stations are covered with this hybrid solution.

Review reports for all officials from the Police Station to State Director General (DGP) can be generated from the Portal (http://eservices.tnpolice.gov.in). State level search of any criminal or crime can be done. It provides G2C and G2B services (both mobile and web services) like sharing of road accident case documents, etc, with payment gateway integration (paygov).

Data is shared with the national data base in the "Central - Core Application Software (CAS)" format of National Crime Records Bureau (NCRB) and also with insurance agencies & Motor Vehicle Accident Cases Tribunal Courts.

It is being implemented in all 1,913 Police Stations including Special Units. About 64 lakh First Information Reports, 24 lakh Community Service Registers, 28 lakh motor vehicle petty cases and 82,000 ordinary petty cases are registered in the State since 2013. More than 4,000 Officers, 21 Insurance Companies and 200+ Motor Vehicle Accident Tribunal Court Officials are using the portal. 206 vehicles traced, 346 missing persons matched with un-Identified dead bodies,



Launch of Online Filing of Plan Permission Application (PPA) for Chennai Metropolitan Development Authority (CMDA) by the Hon'ble Chief Minister of Tamil Nadu on the 11th October, 2017

39 missing persons traced, 117 NGO home resident persons united with families, 931 Passports rejected, 1,579 Antecedents found through this portal during this year.

PREGNANCY & INFANT COHORT MONITORING AND EVALUATION SOFTWARE (PICME) 2.0

PICME 2.0 has been implemented for tracking of health follow-up services to pregnant women & infants, and handling allotment and disbursement of funds under TN Government's Maternity Benefit Scheme to eligible mothers. It meets requirements of the new Reproductive Child Health (RCH) format of MoHFW, GoI for Mother & Child Tracking.

It is integrated with SRDH Aadhaar Biometric Authentication to ensure

payment to genuine mothers. It is also integrated with the Civil Registration System. SMS alerts in Tamil are sent to Village head nurses/ mothers for intimation of Antenatal Care (ANC)-due, Expected Date of Delivery (EDD), Post Natal Care (PNC)- due, immunizationdue, etc.

RURAL DEVELOPMENT PROJECTS

VILLAGE PANCHAYAT ELECTRICITY CONSUMPTION MONITORING & ANALYSIS SYSTEM

This system monitors the payment of Electricity Bills on time to Tamil Nadu Electricity Board, Misuse/ Overuse of Electricity, to control the Electricity Consumption, to identify water starving habitation based on the electricity consumed by a motor attached to a bore well/ water source, over use of water by Village Panchayats etc. Daily reports for State, District & Block level users about new bills and bills pending for more than 60 days which attract penalty are generated. Over use of electricity is analysed.

The system has improved the efficiency in electricity consumption and resulted in cost saving of about Rs. 300 Crores per year. It is implemented in 12,524 Village Panchayats of Tamil Nadu.

LED LIGHTS MONITORING SYSTEM

This System monitors replacement of old type street lights to LED lights to reduce electricity consumption. It has facility to monitor purchase, dispatch, installation and payment to vendors. Each LED light pole is attached to electricity meter which monitors the usage.

State, District and Block level users monitor various stages of implementation. Bills are paid to vendors by Directorate of Rural Development after installation of LED lights in villages. Capturing of Global Positioning System (GPS)



Visitors Management System for Raj Bhavan, Chennai successfully launched by the Hon'ble Governor of Tamil Nadu on the 19th April, 2017

coordinates of poles is planned through mobile application.

ONLINE FILING OF PLAN PER-MISSION APPLICATION (PPA) FOR CHENNAI METROPOLI-TAN DEVELOPMENT AUTHORITY (CMDA)

The system provides facility for the public to apply for Building Plan Permission by making online payment. The Applicant need not visit CMDA for submitting his/ her Plan Permission Application. Reports like Acknowledgement, Inspection Report, Development Charges Notification and Plan Approval are made available in the web for the Applicant to download. The processing is transparent and applicant can keep track of the processing Status online in addition to automatic alerts through SMS/ Email.

It has been successfully launched by the Hon'ble Chief Minister of Tamil Nadu on the 11th October 2017.

INTEGRATED APPLICATION FOR SPORTS DEVELOPMENT AUTHORITY OF TAMIL NADU

This Web application for the Sports Development Authority of Tamil Nadu (Youth Welfare and Sports Development Department) covers the following major activities -

• Building a Repository of Sports-persons in all disciplines, their performances, rankings, scores and grades

• Details of Coaches for all Sports, their performances, achievements, coaching methodologies and planning

• All major Competitions and Sportingevents conducted in the State, along with Results and performance of top-finishers/ teams

• Sporting Infrastructure and facilities in the State

• Monitoring and Implementation of Schemes/ Beneficiaries details

• Online Services for Booking of Stadiums for conducting events

• Online Membership for usage of facilities in Stadiums

• Computerization of all Sports-Hostels including Admission of Students, Schooling, Coaching, Inventory and day-to-day Administrative activities



• Dashboard service for each level in the SDAT

• SMS based alerts sent to stakeholders.

Based on the performances and talent pool available, teams are proposed for national or international level competitions and coaches are proposed for deputation or delegation for specific sporting assignments.

It is the first of its kind amongst the States in India. Online rendering of services in the sports sector is being introduced in the state which can be replicated in other States.

VISITORS MANAGEMENT SYSTEM FOR RAJ BHAVAN, CHENNAI

This web application customised by the NIC Cell of Rashtrapati Bhavan, New Delhi and implemented as part of the website of Raj Bhavan Chennai, helps the public to book admission tickets for visiting the Raj Bhavan Chennai during weekends. Online payment is enabled and confirmation is sent through SMS/ Email. It has been successfully launched by the Hon'ble Governor of Tamil Nadu on the 19th April 2017.

NATIONAL HEALTH MISSION (NHM)

NHM envisages achievement of universal access to equitable, affordable & quality health-care services that are accountable and responsive to the needs of people in rural and urban areas. The following mobile Apps have been implemented:

ORAL PRE-CANCER MOBILE APP FOR TAMIL NADU

• Mobile App developed to conduct survey on Oral Cancer pre-screening. The survey is being conducted door to door in villages and the details about the suspected patients and photo of the lesion inside mouth are captured and transmitted.

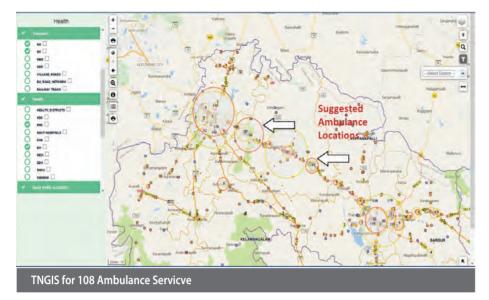
• 16+ lakh citizens have been surveyed (in 36+ lakh families in 60,000+ villages in 1,600+ PHCs). 9,900+ Photos of oral lesion inside the mouth of 13,900+ suspected cases were uploaded using the Mobile App.

MOBILE APP FOR NPCDCS, TAMIL NADU

Mobile App developed for treatment and follow-up of patients under National Programme for Prevention and Control of Cancer, Diabetics and Cardiovascular Disease and Stroke (NPCDCS).

STATE PORTAL OF GOVT. OF TAMIL NADU

State Portal provides a single window access to Information & Services at all levels of State and District Administration. This portal, developed using Drupal, provides comprehensive, accurate, and reliable information from the respective Departments using a workflow system; and it is a one stop source of information about Tamil Nadu and its various facets. Information in the Portal has been well classified into distinct modules, which are interlinked at relevant places to provide the



visitor with a holistic view.

The portal is developed using Responsive Web Design technology. It is viewed in over 165 countries through various devices.

TNGIS WEB PLATFORM AS STATE SPATIAL DATA INFRASTRUCTURE (SSDI) (http://tngis.tn.gov.in)

Web based GIS for Tamil Nadu using open source software is implemented in line with National Spatial Data Infrastructure (NSDI) framework. Spatial data repository (300+ layers at 1:50,000 scale, WGS-84 Datum, TM Projection) created by collating from various Departments, are being used by Public (2,400+) and Departmental/ District (400+) users across the State. The generic reusable application uses Open Geospatial Consortium (OGC) compliant Geo-spatial web services for geographic representation of data from any platform/ technology. TNGIS has enabled the analysis of data related to schooling access and road-accidents.

NATIONAL KNOWLEDGE NETWORK (NKN)

Chennai is one of Super Core PoPs of NKN, which is a high speed, multi Gigabit Data Network. 125 Research & Educational Institutions are connected to NKN Chennai PoP.





Mobile App for NPCCDS Tamil Nadu

CENTRAL PROJECTS

Jeevan Pramaan

Jeevan Pramaan is implemented in Offices such as Defence Pension Disbursement Offices (DPDO) in Chennai & Vellore, Army Head Quarters, Defence Canteen Stores, Chennai Port Trust and in all district treasures and Sub Treasuries. Pensioners of State Government are also using Jeevan Pramaan.

• Aadhaar Enabled Biometric Attendance System (AEBAS)

AEBAS is implemented in 7 State Government Departments including IT Department, School Education Department, Department of Treasuries & Accounts, Perambalur Collectorate, Trichy City Corporation, Tamil Nadu e-Governance Agency (TNeGA), National Health Mission, Chennai and over 250 Central Government Offices.

AWARDS

• SKOCH - Order of Merit 2017 for TamilNILAM

• SAPPN Award 2017 - GePNIC bags Innovation Award

- GeM Award 2017 for GePNIC
- Digital India Award 2016 Gold icon for Comprehensive Web Presence State
- CSI Nihilent Award 2016 for GePNIC

• Mobile for Good Award 2016 for Oral Pre-Cancer mobile App

SKOCH Award 2015 for GePNIC

• eLets Knowledge Exchange Award 2015 for Mobility Platform Services

• Webratna Award 2014 - Gold Icon for use of innovative technology for e-Services of Commercial Taxes

• Webratna Award 2014 - Gold icon for Comprehensive Web Presence - State

• eIndia 2014 Award for best implementation of eGov Application for MCL

• eIndia 2014 Award under Innovation in Governance for Mobility Platform Services

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