



## eOFFICE - A DIGITAL WORKPLACE SOLUTION

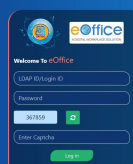
eOffice is one of the key IT projects of National Informatics Centre (NIC) envisioned to achieve a simplified, responsive, effective and transparent working of all government offices. It provides a convenient way for officials to access information related to every aspect of their working and knowledge sharing by presenting a single gateway to information and services. eOffice aims to support eGovernance by ushering in more effective and transparent inter & intra-government processes.

## IMPLEMENTATION IN TAMIL NADU STATE GOVERNMENT

Tamil Nadu was one of the State which started using eOffice about a decade ago. Subsequently, the State Government has taken a decisive step to extend the use of eOffice (eFile) in the year 2022. Ver 7.x has been rolled out in the Departments and District Administration across the State with the help of Tamil Nadu eGovernance Agency (TNeGA). Five eOffice instances are catering to nearly one Lac users from these Departments where over 32 Lac eFiles have been generated till now. Apart from this, eOffice (SPARROW) implementation which can cater to about 16,000 Non-IPS officers of police department is in progress.

The officials in Tamil Nadu State Govt. are extensively using all state-of-the-art features in eOffice (eFile) such as Multiple Signing, Seamless working across multiple posts, ActiveMQ for inter-instance file movement and eAudit Module for Auditing. Use of a Single Centralized PIMS (Personnel Information Management System) instance to handle upto two Lac users in multiple eFile instances is a uniqueness of eOffice implementation in Tamil Nadu.

An eOffice (eFile) instance with 200 user licenses has been prepared for training. TNeGA is imparting regular eOffice training in batches. NIC State Unit is associated in this process in coordination with the eOffice Team in NIC HQ, Delhi.



**Praveen P. Nair, IAS**

Director of eGovernance, Govt. of Tamil Nadu  
CEO, Tamil Nadu eGovernance Agency(TNeGA)

The eOffice application developed by National Informatics Centre is one of the successful eGovernance solution implemented by Tamil Nadu eGovernance Agency (TNeGA) for Govt. of Tamil Nadu. The Government has taken a fresh initiative to implement eOffice in various departments under the Govt. of Tamil Nadu through TNeGA in the year 2022.

Presently five instances of eOffice Ver 7.x are deployed in Tamil Nadu State Data Centre, Chennai and over 90,000 users are onboarded in these instances. TNeGA is in the process of scaling up the system to increase the users by another 50,000. On an average over 1.5 lacs new eFiles are getting created every month.

NIC Tamil Nadu State Centre has provided commendable guidance and support to TNeGA at every stage of eOffice implementation for Govt. of Tamil Nadu. TNeGA is feeling proud of the pivotal role played in this implementation and thanks all the stake holders for making this endeavour a grand success.

### IMPLEMENTATION IN CENTRAL GOVERNMENT OFFICES IN TN

More than 20 Central Govt. Departments and PSUs in the State have implemented eOffice. NIC State Unit is coordinating onboarding and training for these organizations with the help of eOffice Team in NIC HQ, Delhi. The major users include: Ministry of Defence, Southern Railway, Income Tax Dept, Central Board of Indirect Taxes and Customs, BSNL, Thoothukudi Port, Census, Chennai Metro Rail Limited (CMRL), National Centre for Coastal Research (NCCR), National Institute of Ocean Technology (NIOT), National Institute of Wind Energy (NIWE), Neyveli Lignite Corporation (NLC), Central Leather Research Institute (CLRI), National Institute of Siddha (NIS), Armoured Vehicles Nigam Limited (AVNL), Central Pollution Control Board (CPCB). Implementation is in progress for 10 other Central Government / Central PSUs in Tamil Nadu.



**Shri James Arulraj J**

## Senior Director (IT)

✉ james.arulraj@nic.in



**Shri C. Bala Ganesan**

Director (IT)

 cbalaganesan@nic.in

## TAMIL NADU MINI CLOUD

Cloud computing is expected to be a driving force in India's digital transformation and the expansion of Artificial Intelligence. It is anticipated that Cloud computing could contribute between \$315 and \$375 billion to India's GDP by 2026 and it will create 14 million jobs.

In order to utilize and harness the benefits of Cloud Computing, Government of India has embarked upon an ambitious initiative, "GI Cloud" which has been named as "MeghRaj".

The focus of this cloud computing initiative is to accelerate delivery of e-services in the country while optimizing ICT spending of the Government to ensure optimum utilization of the infrastructure and speed up the development and deployment of e-Governance applications.

NIC established Mini Cloud is operational since July 2021 in the state of Tamil Nadu.

### TN CLOUD INITIATIVE STATE CLOUD BY NIC

Virtual Machines  
**ON DEMAND**

Secured  
**Infrastructure**

Pre-configured  
**WEB SERVERS**



Mini Cloud at NIC, Tamil Nadu has the infrastructure capacity of 6 TB RAM, 480 TB SAS storage, 576 Core CPUs, Virtual Load Balancer and CISCO Commvault Backup Solution. It has the tolerance of 2 nodes failure with High Availability.

The other value added services available along with mini-cloud are as listed below:

1. NIC VPN access for administration of the resources
2. Eforms portal to file online service requests for DNS Entry, VPN accounts etc..
3. Provision for OS and other software upgrades
4. Options for both Windows and Linux OS platforms

As on date, 35 users have been on-boarded with 20 Web applications on Mini Cloud. Infrastructure support has been extended to Centre of Excellence for Blockchain Technology, Bengaluru. Tamil Nadu Mini Cloud acts as Disaster Recovery (DR) site for the Mini Cloud of Sikkim State.

In three years of time, 50 percent of the Mini Cloud resources have been utilized and ready to cater to the needs of future requirements.



**Alagesan S**  
Senior Director (IT)  
✉ [mcsupport-tn@nic.in](mailto:mcsupport-tn@nic.in)

## DISTRICT AT A GLANCE

### TIRUVARUR DISTRICT



**Tmt. T. Charusree, IAS**  
Tiruvarur Collector  
🌐 Website : <https://tiruvarur.nic.in/>

### ICT SUPPORT AND IMPLEMENTATIONS

- Court Cases Monitoring Systems (CCMS) for District administration has been implemented in Tiruvarur District to monitor the various cases effectively filed in High Court of Chennai. Dashboard has been enabled to monitor the pending cases by District Collector.



- Integrated Road Accident Database (IRAD) has been implemented successfully in Tiruvarur district.
- Natham Online Patta transfer system implemented in four taluks.
- National Database of Arms Licenses-Arms License Issuance System (NDAL-ALIS) has been implemented in Tiruvarur District to facilitate individuals applying for arms license under Arms Act, 1959 and Arms Rules, 2016.
- CollabLand Software has been installed and technical support has been provided to the following temple staff to draw FMB.
  - i) Bhaktavatsala Perumal Temple, Tirukanna Mangai
  - ii) Arulmigu Sri Vanchinathaswamy Temple, Srivarnajam
  - iii) Arulmigu Piravi Marundheeswarar Temple, Thiruthuraiipoondi
- e-Sanad has been implemented in Tiruvarur District. It ensures that the verification authorities get the digitally verified documents for Indians residing abroad.
- Support extended to various government departments to publish tenders in TN Tenders Portal.
- ICT support to Tiruvarur district administration for smooth conduct of General Lok Sabha election 2024 and during counting process.



**Shri. Pugazhendhi G, Senior Director (IT)**  
DIO - Tiruvaruar  
✉ [dio-trn@nic.in](mailto:dio-trn@nic.in)

'Open Technology' is a term used to cover a broad category of related concepts like 'Open Standards', 'Open Source Software (OSS)', and 'Open Data'. It helps to build the 'Open System' by using the best combination of the related concepts. Understanding the significance of Open Technology, Government of India (GoI) established the 'Open Technology Centre' (OTC) at Chennai under National Informatics Centre (NIC) through Ministry of Electronics and Information Technology (formerly Dept of IT) in the year 2007. The OTC Project has the mandate to spearhead the awareness creation on Open Technology and its adoption among eGovernance Projects in Central and State Governments to facilitate the self reliance and strategic control.

Since inception, the OTC Project played a major role in formulation of Policies and Frameworks on Open Technology as well as capacity building and support services on Open Standards for eGovernance at National level. Interoperability Framework for eGovernance (IFEG) Standards and Framework for adoption of Open Source Software in eGovernance Systems are some of the major contributions of OTC in this domain. With the help of Expert Committees, the OTC Project has formulated standards such as Technical Standards for IFEG, Meta-Data and Biometric Standards. To strengthen the use of Open Technology in India, OTC collaborated with educational and research institutions such as Anna University in formulating Academic Programs on OSS and CDAC (Centre for Development of Advanced Computing) on BOSS Operating System and Cloud.

The OTC Project has been spearheading the adoption of Open Source Software in eGovernance applications and academia through technology exploration and provisioning of support services. In this endeavor, OTC has provided development support, Proof of Concepts (PoC), capacity building and hand-holding in many niche technological areas for various NIC projects across the country in order to facilitate the adoption of OSS. Besides, OTC has formulated the OSS Stack, a suite of compatible software, for development and deployment of new applications as well as for migration of legacy ones.

On completion of the OTC project in the year 2015, NIC established the Open Technology Group (OTG) to sustain and carry forward the Open Technology Activities. OTG carried out the Open Source assignments as envisaged in the NeST Project implemented by STQC. Later, a survey conducted by PwC has revealed that the adoption of OSS in eGovernance had significant growth due to the initiatives of GoI through OTC and NeST projects.

In the year 2018, OTG has released a set of booklets covering best practices, case studies, Open Source Stack and emerging technological choices for application development as part of knowledge sharing among the stakeholders of eGovernance applications. OTG has been fulfilling its mandate to facilitate strategic control of Open Technology within NIC and spearhead the knowledge centric activities in eGovernance Projects all over India. To widen the scope of Open Technology, NIC has formulated the following focus areas for OTG:

- Evaluate and recommend OSS Stack and Open Standards for eGovernance applications
- Maintain distribution repository of recommended open source software for usage across NIC
- Guide and handhold NIC teams in securely keeping their open source driven systems
- Overseeing open source infrastructure across NIC with respect to Cyber Security
- Training and capacity building on Open Source Software

OTG has also set-up the OSS Repository (<https://ossrepository.gov.in>) to encourage formal adoption of Open Source Software among various stakeholders. The repository provides OSS stack with details of supported and unsupported versions with the provision to download the respective version. The services offered include:

- Compliance to OSS Policy (OSS Stack, OSS adherence & enabling SoPs, Best Practices)
- OSS Repository & Cloud Data Centre Support for National Data Centres and State Mini-Clouds
- OSS Security support for Vulnerability Assessment/Clearance/Moderation/Exemption/CVE Evaluation and service support via NIC Service-Desk
- Regular Capacity building on Open Source through classroom and virtual mode

OTG has been collaborating for a long time with eCommittee of Supreme Court of India and eCourts Project in adopting Open Technology. As a part of this, customised Kick-start ISO images of Ubuntu was provided for all courts across the country. OTG has been regularly issuing OSS advisories to enable Application Managers to migrate from unsupported versions to supported ones and stay secure as per cyber-security guidelines.



**T. Manisekaran, Senior Director (IT)**

[manisekaran.t@nic.in](mailto:manisekaran.t@nic.in)

Acknowledgments: Team OTG

### Counting Day Activities ICT Support To District Administration

Counting of votes, being the most critical activity in the election process, extensive ICT support was extended to District Administration to ensure smooth conduct of counting process. The counting process consists of pre-counting activities, entry of Electronic Voting Machine (EVM) votes in ENCORE, publishing the round wise result, entry of postal votes, finalization of data entered and declaration of result. NIC officers also associated with district administration in training the counting officials for scanning the covers containing the postal votes of the service voters using the ETPBMS software. Training was imparted to all the stake holders namely RO, ARO, Computer Operators, Election Programmers, Assistant Programmers and Computer Operators. Dry runs were conducted at regular intervals as per ECI schedule where the complete sample data was entered and the entire flow of the software was checked as per the guidelines of the Election Commission of India.

Internet connectivity was provisioned through leased line connections by the service providers at counting centres for ROs, General Observers, ETPBS, media rooms and all assembly constituencies to perform the counting related activities. This was augmented by secondary internet connection using alternate service providers with an option to switch over in case of any network disruptions. Besides, support was extended to District Administrations in installation of systems and printer in all rooms.

### Integrated Temple Management System

Tamil Nadu Hindu Religious and Charitable Endowments (HRCE) Department will be organizing Muthamizh Murugan International Conference 2024 (MMIC-2024) to unite the Lord Murugan devotees from across the globe. MMIC-2024 will be held on 24th and 25th August 2024 in Palani Temple. HR&CE department has launched a website <https://muthamizhmuruganmaanadu2024.com> on 28th May 2024.

Online registration form is available in the website for participant registration. Participants presenting research paper during the conference can also register through the above website. Registration confirmation is sent through SMS and email to registered participants. so far 304 participants have registered from India and abroad. Also, 814 Indians and 31 NRI research scholars have registered for paper presentation.



### HAPPY RETIREMENT



**Shri. Parthaarathy K**  
Senior Director(IT)



**Shri. Dhanasekaran M**  
Senior Director(IT)



**Shri. B. Seenivasan**  
Senior Director(IT)



**Shri. Shanmuga Sundaram**  
Senior Director(IT)



**Smt. Revathi P**  
Steno Grade II



**Shri. Thirumurugan R**  
Senior Director(IT)



**Shri. Alagarsamy M**  
Director(IT)



**Shri. Sundaramurthi**  
Director(IT)



**Shri. Karuthoviyan P**  
Director(IT)



**Shri. Meenakshi Sundaram**  
Joint Director(IT)



**Shri. Ezhilan K**  
Joint Director(IT)



**Shri. Pugazhendhi G**  
Senior Director(IT)



**Shri. Jayashree Hariharan**  
Senior Director(IT)



**Shri. V K Selvaraju**  
Senior Director(IT)



**Shri. Alagesan S**  
Senior Director(IT)



**Shri. Gunasekaran M**  
Senior Director(IT)