NATIONAL INFORMATICS CENTRE – TAMIL NADU

Launch of Thaimaaman Thanga Mothiram Thittam (TMTMT): An Integrated Web and Mobile Digital Solution

---

Hon'ble Chief Minister of Tamil Nadu, Thiru. C. Joseph Vijay inaugurated the **"Thaimaaman Thanga Mothiram Thittam (TMTMT)" on 28.09.2026** at Government Rajaji Hospital, Madurai, Tamil Nadu. The scheme is a special welfare initiative of the Government of Tamil Nadu introduced to celebrate the birth of children in Government hospitals and to reflect the traditional affection and caring relationship associated with the maternal uncle (*Thaimaaman*) in Tamil culture.

Under the scheme, a **one-gram gold ring** is provided to every child born in a Government hospital, with effect from 22.06.2026. With around **4.20 lakh deliveries** taking place **annually in Government hospitals**, the scheme is being implemented on a large scale across the State. Each ring carries a Unique Serial Number and is supplied in tamper-proof packaging, requiring a secure mechanism for beneficiary identification, ring allocation, inventory control, authentication and distribution.

NIC, Tamil Nadu has developed the **TMTMT Web and Mobile Applications** as an additional module integrated with **PICME 3.0** (Pregnancy and Infant Cohort Monitoring and Evaluation), the digital platform of the Department of Public Health and Preventive Medicine for managing pregnancy, mother and child-related information. The solution was developed and implemented under the guidance of **Shri Kamalakkannan M., DDG & SIO**, NIC Tamil Nadu, through the dedicated efforts of the development team under the leadership of the NIC-TNSC team led by **Shri R. Sainath, Senior Director (IT), and Ms. D. Sripriya, Joint Director (IT)**, in close coordination with the NHM and DPH teams of Government of Tamil Nadu.



TMTMT applications utilises the linked mother–child records and unique **RCH IDs maintained in PICME 3.0**. It is also integrated through **APIs with the external Ring Inventory Management System**, enabling bidirectional exchange and synchronisation of inventory and distribution data. The solution follows a Hub-and-Spoke operational model for controlled receipt, allocation, transfer and distribution of rings.

TMTMT Web Application manages the beneficiary workflow, including line-list generation, document upload, verification and authentication, with **demographic matching of the mother using PDS e-KYC** incorporated into the eligibility validation process. **Role-based access** and separate credentials for backlog and routine distribution provide appropriate operational controls. Upon approval, the **system generates proceedings** and facilitates the assignment of designated ring takers for the controlled movement of rings from the Hub to the respective Spoke distribution points.

At the distribution point, the **Flutter-based THAIMAI Mobile Application**, deployed on Android devices, provides the digital interface for distribution operations. The application incorporates **QR-code scanning and verification**, retrieves the associated beneficiary and ring details through backend service integration, and presents the beneficiary information to the distribution official for confirmation. It also integrates with the **Aadhaar-based Face Recognition System (FRS)** through the Face RD component for **facial authentication of the mother** and captures a **geo-tagged photograph** as evidence of the distribution transaction.

Separately, the **TMTMT Web Application** integrates with the **fingerprint biometric device** to perform **Aadhaar-based biometric authentication of the mother** as part of the ring-issue process. This provides an additional layer of beneficiary identity validation before completion of the transaction.

To summarize, the **Integrated Web and Mobile Digital Solution for TMTMT** integrates PICME 3.0 beneficiary information, API-based bidirectional inventory integration, QR-enabled ring tracking, demographic matching of the mother using PDS e-KYC, Aadhaar-based Face Authentication, geo-tagged photographic evidence and Aadhaar-based biometric authentication, thereby providing an **end-to-end, secure, traceable and auditable digital workflow for implementation of the scheme**.

****

NIC Tamil Nadu