Health Care
Doctor
Hospital
Pharmacist
Nurse
Dentist
First Aid
Surgeon
Emergency

MEDIC

# TimesMed™

Digitisation of Patient Centric Health Records, Accessing them by health practitioners when needed with the consent, helps immediate Quality Care and AI Based Forecasting Helps Save Lives.

# TABLE
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# ABOUT US.

TimesMed is a comprehensive, interactive, and integratedonline healthcare platform that connects doctors, hospitals, pharmacies, laboratories, billing, and, most importantly,patients. Integrated information flows seamlessly and inter- actively to all stakeholder entities, making the system live and real. B2B, B2C, and B2B2C solutions are all available from TimesMed.

TimesMed also provides B2C solutions such as Online Consultation (both video and text), Online Pharmacy, Appointment Scheduling, Home Care Services, Health Packages,and Patients Medical Summary in Patients App, as well as HRM and Analytics both online and offline on premise and comprehensive LIMS (Lab Information Management Solutions). TimesMed services are available as mobile web apps as well as native apps for iOS and Android.

The most important feature of TimesMed is that the entire Clinic or Hospital can be navi-

gated from a Smartphone from any location on the go. TimesMed also uses Artificial Intelligence (AI) based Technology for the dynamic use of prescription and diagnosis purposes. Finally, TimesMed can be operated using voice control, eliminating the need for typing. TimesMed Tele-Medicine is a sophisticated platform that connects remote patients with specialties as well as all other entities such as pharmacies, laboratories, and other healthcare providers. Through the TimesMed Platform, remote patients will receive comprehensive healthcare services and high-quality care. This is a mobile and web-based service that can be accessed by downloading the apps.

TimesMed is headquartered in Cupertino, California, with development centers in Chennai and marketing offices in Manila, Philippines, and is active in a number of regions,including the Middle East, Africa, and South America.

# OUR
# GOVERNMENT
# PROJECTS

## 1

### TNPHR- Tamil Nadu Population Health Registry

The TNPHR is an initiative undertaken by the Government of Tamil Nadu, To create a comprehensive electronic health record (EHR) system for its citizens.It helped the government of Tamil Nadu in improving healthcare services by providing real-time information on disease patterns and healthcare needs of the population.

## 2

### TAEI - TamilNadu and Emergency Care Initiative Integrated

Trauma Registry : (TAEI)TamilNadu and Emergency Care Initiative Integrated and live exchange of Data between 108 and iRAD(integrated Road Accident Database).TAEI is a comprehensive HUB connecting 108 Emergency departments from All Government Medical College Hospitals, Government General Hospitals, Primary Health Centers, State Health Centers, Super Specialty Hospitals, and Leading Private Hospitals.

## 3

### MTM - Makkalai Thedi Maruthuvam

With the help of the Makkalai Thedi Maruthuvam system, people can receive basic healthcare right at their door. The project will completely transform how primary healthcare is provided, transforming in a day when the underprivileged can receive life-saving medical care right in their own homes.

A holistic view of integrated and interactive solution for a greater real time data with the power of Analytics for a better predictions.

Real Time Access to Health Records & Medical History has been the cause of inappropriate treatment.  Core Interpretations help prevent Diseases.

## 4
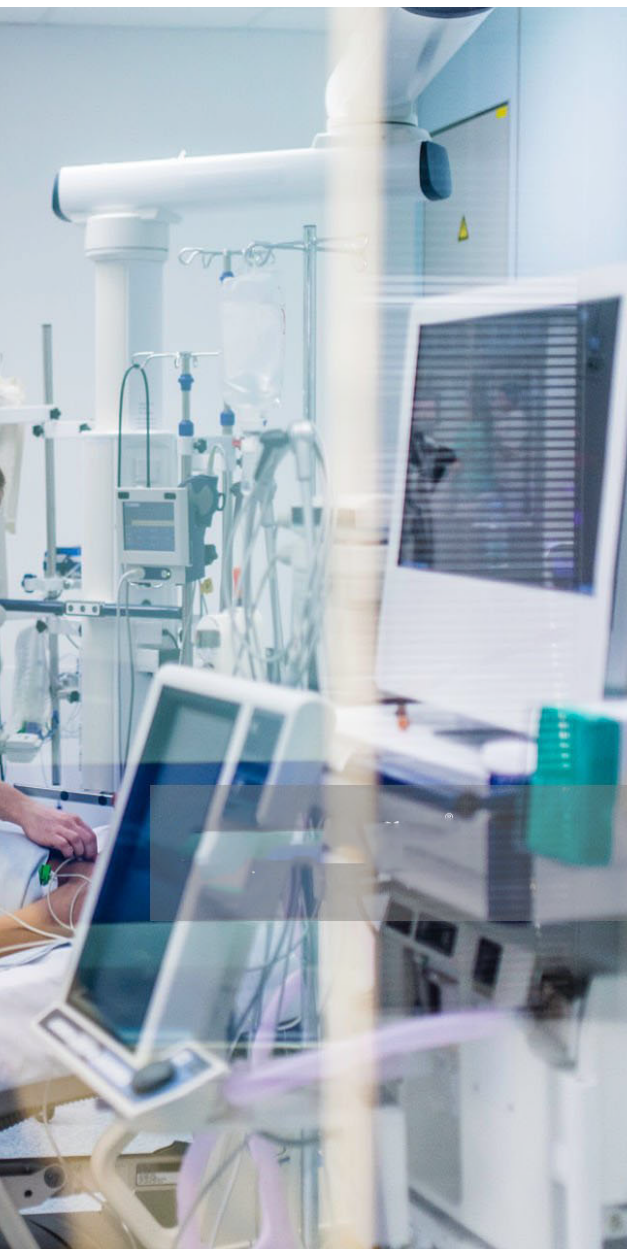
### Tele-consultation - Video consultation

TN COVID 19 TELECONSULTATION app is used for Video Consultation with Government Doctors for COVID – 19 related clarification. This is also used for tracking and following up the COVID 19 quarantined patients on a regular basis with the particular zone assigned to doctors. Today's digital world gives us the benefit of a medical consultation from the comfort of our home.

## 5

### HIMS - Hospital Information Management System  & CMS -  Clinical Management Solution

HIMS & CMS are two software solutions used in the healthcare industry to improve the quality of patient care, streamline clinical workflows, and enhance operational efficiency.

## 6

### LIMS -Laboratory Information Management System

LIMS  is a software solution designed to manage and streamline laboratory operations This  system that includes modules for managing laboratory samples, tracking their progress through the laboratory, generating analytical results

## 7

### TNPHDR - Tamil Nadu Pregnant Women and Heart Disease Registry

The TNPHDR project focuses on collecting and analyzing data related to pregnancy, childbirth, and women's health in order to identify possible gaps in the existing management of pregnancy-related complications and to enhance care for pregnant and postpartum women with heart disease (PWWHD)

## 8

### Delivery App for Managing Lab Tests

Smart Delivery App is used for an excellent Lab Services to the Citizens of TamilNadu. Any one wants the Lab Tests can visit the nearby health facilities and leave the sample. Government gets the Test Done and delivers the Results. The near convenience of home lab services are introduced recently for the benefits of citizens of Tamil Nadu

## 9

### Covid War Room

The war room serves as a single point of contact and command centre for both public and private hospitals in managing bed availability, particularly for critically sick patients who need oxygen and mobility (Ambulance), as part of this approach.

TimesMed offers 360 Degree view of End-to-End HealthTech Solution for a Quality Care by Health Practitioners.

TimesMed can be accessed by Mobile. Hence medical Practitioners can examine the patient through video Consultation and access the Records for a Quality Care Anytime from Anywhere.
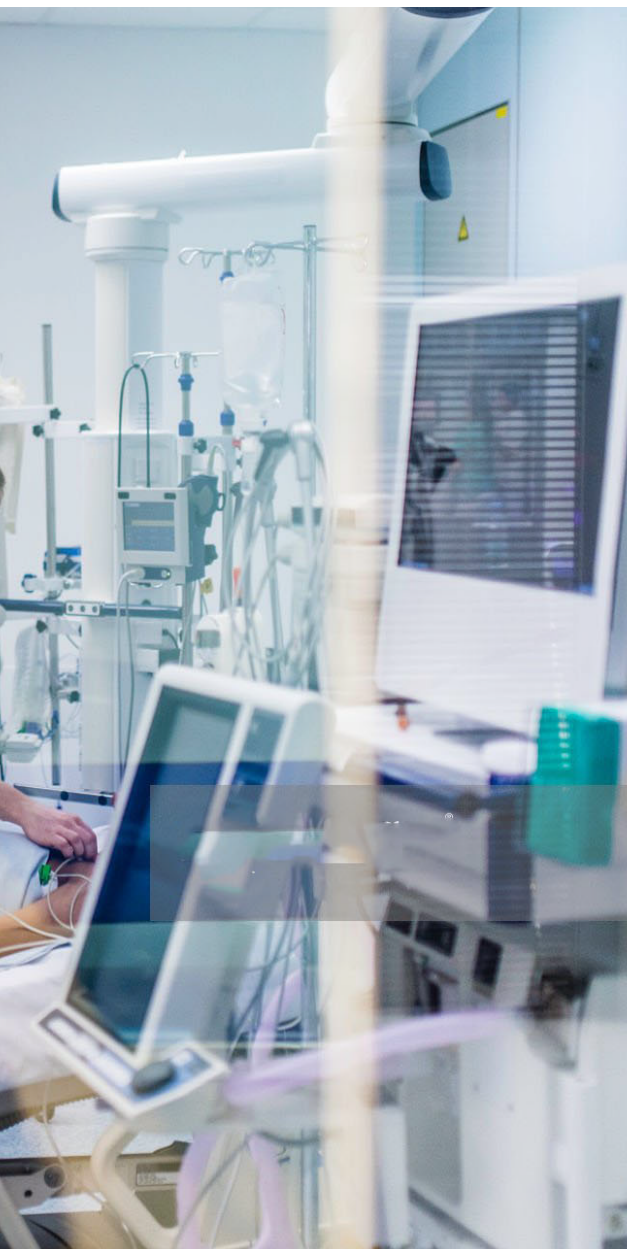
## 10 UHC- Universal Health Coverage - Application Management Portal

The Universal Health Coverage (UHC) program has been implemented in Tamil Nadu since 2017 and has been recently integrated with the State's flagship 'Makkalai Thedi Maruthuvam' scheme.The State's goal of achieving universal health coverage (UHC) necessitates fully operational Health and Wellness Centers (HWCs) that satisfy the Government of India's criteria, including the placement of MLHPs and Multipurpose Health Worker/Health Inspector Grade II at the Health Sub-Centre level HWC.

## 11 Attendance Management System and Admin

Attendance Management System is an application that allows you to keep track of your attendance. Attendance that is Geo-tagged and Geo-fence, Policies, and Weekly Offs allow you to accurately track employee hours

## 12 Rashtriya Bal Swasthya Karyakram (RBSK)

It is an innovative program that aims to enhance children's general quality of life by allowing all kids to reach their full potential and also provide comprehensive care to all the children in the community.

## 13 Labor MMU Screening Construction Workers

The labor MMU screening is an initiative by the Tamil Nadu government to ensure the health and safety of workers in the construction industry. The goal of the screening is to identify any health issues The MTM Scheme currently developed a screening individual from the list available for reporting from the Construction sites , District Level to the state level.

# 1.TNPHR

## Tamil Nadu Population Health Registry

Tamil Nadu Population Health Registry project includes components: the App, Admin, Web Dashboard, and Data Analytical Report. These components are designed to work together to improve healthcare management and outcomes in Tamil Nadu by providing a user-friendly interface for healthcare providers, administrators, and researchers to access, manage, and analyze health-related data.
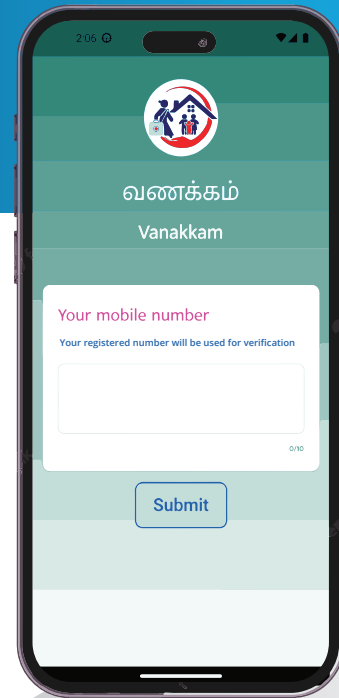
## Tamil Nadu Population Health Registry Application

- The Tamil Nadu Health Population Registry (TNPHR) is a centralized database of health-related information of the population of Tamil Nadu, India.

- The TNHSPR aims to provide a comprehensive electronic health record of every individual residing in Tamil Nadu, which includes information about their demographic details, health status, and medical history.

- This information can be accessed by healthcare providers and government officials to make informed decisions and improve the overall health of the population

**S.O.S based health alerts for a patients that Saves thousands of Lives. All connected are Alarmed and be available to provide timely Treatment.**

## Transforming Healthcare with Tamil Nadu Population Health Registry

TimesMed Build a software to TamilNadu for the goal of the TNPHR is to create a comprehensive database of health information that can be used for public health planning and research.

The system collects data on various health indicators.The data is collected from various sources, including public and private healthcare facilities, community health workers, and other healthcare providers.
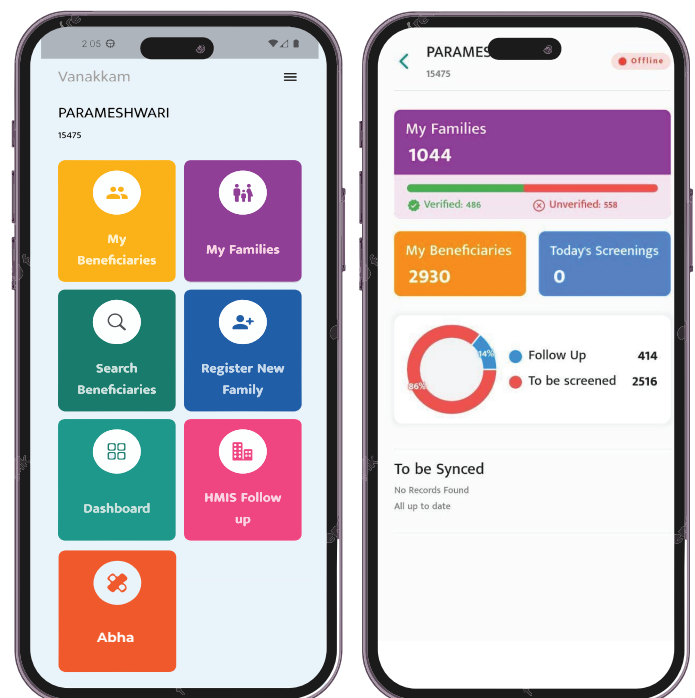
# Sync your health data seamlessly with TNPHR App - Online and Offline

- ## Online Sync

  Field level App has both offline and Online Synchronization of Data with Server. Earlier versions had only offline Sync. The current version facilitates online sync wherever internet is available real time Sync is enabled.

- ## Data Mapping

  Every Streets are mapped with Publish Distribution System Shops (PDS – ration shop) and PDS is mapped with Block, HSC & PHC, HUD and Districts. Hence every field level work who goes to the field gets their beneficiaries data downloaded onto their mobile phones and they do the field level screening of the beneficieries.
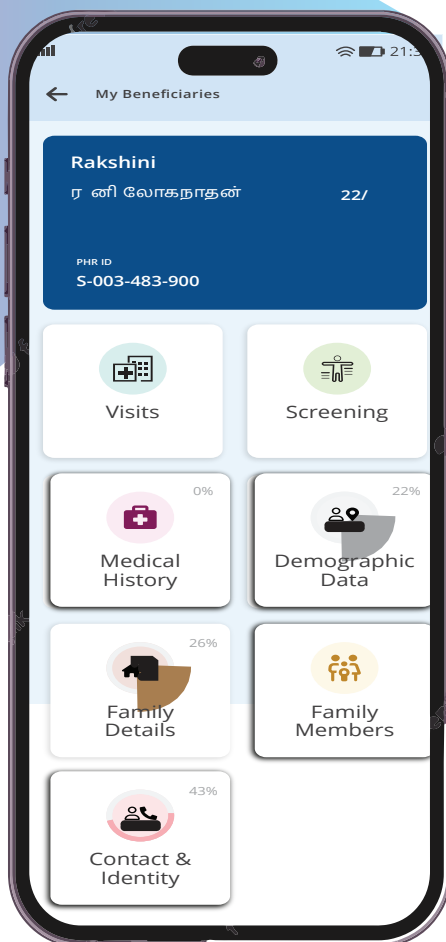
- ## Data Verification

  Field level workers verify every beneficery data, Add New families if they are migrated onto the area. If any deaths or migrated out are clearly captured. Hence every beneficiary data in every street is clearly verified and Marked.

- ## HIMS Integration

  PHR is integrated with HIMS, hence if the patients visits the facilities clinician can get to see the PHR screening values and if the patients visits the hospitals, WHV's can see the doctors prescription and provide medicines accordingly.

- ## ABHA integration

  PHR is integrated with ABHA, hence the futuristic idea will be, wherever patient goes health practiciner can view the previous medical history of the patients using the ABHA ID.

- ## Logins – Doctor Login

  State, District and WHV / MLHP and Block Level Staff Nurse and Doctors are provided logins. Logins can be extended to Lab and every other Health entities for the holistic capturing of data and View.
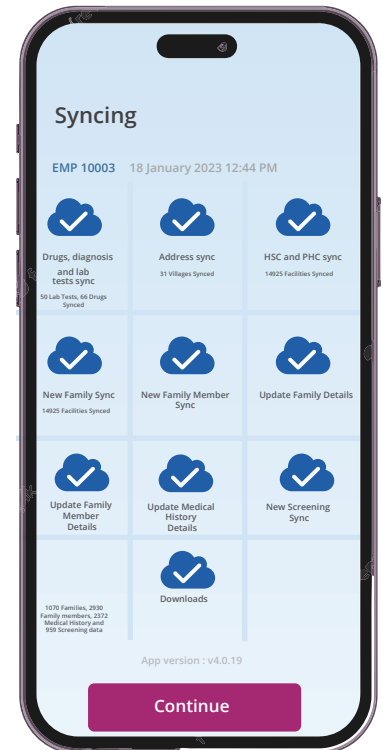
## Transforming Healthcare with Tamil Nadu Population Health Registry

### VISITS

During the visit, data that includes details on labs, diseases, drugs, and advice. This data specifically includes information on which beneficiaries require lab tests, the types of diseases they have, and the corresponding drugs and advice recommended.

## SCREENING

The screening process in the TNPHR is an important tool for improving public health in Tamil Nadu. By identifying individuals who may be at risk of developing certain health conditions, healthcare providers can intervene early and provide preventative care and treatment to help prevent the onset or progression of disease. Additionally, the data collected through the screening process can be used for public health planning and research, which can help inform policies and programs aimed at improving the health of the population.

## MEDICAL HISTORY

In Medical History the data collected from this section can be analyzed to identify the prevalence and incidence rates of various medical conditions in the population. This information can help in the development of public health policies and programs that are aimed at preventing or managing these conditions, and improving the overall health of the population.

## DEMOGRAPHIC DATA

The demographic data section of TNPHR is important for understanding the distribution of health and disease in the population. By analyzing demographic data, healthcare providers and policymakers can identify patterns of illness or disease that may be more prevalent in certain age groups, genders, or geographic locations. This information can help to develop targeted interventions and public health programs that are aimed at reducing the burden of disease and improving health outcomes.

## FAMILY MEMBERS

Registering family members in TNPHR is an important step towards improving healthcare delivery and public health outcomes in Tamil Nadu. By providing a comprehensive view of an individual's family's health status, healthcare providers and policymakers can develop more effective interventions and policies that are tailored to the unique needs of the population.

## FAMILY DETAILS

In  Family details section in TNPHR can help healthcare providers to provide better care coordination for individuals with complex medical conditions. By understanding an individual's family structure and support system, healthcare providers can work with family members to provide coordinated care and support that meets the individual's unique needs.

The family details section in TNPHR can help to improve public health outcomes in Tamil Nadu. By identifying patterns of illness or disease within families, healthcare providers and policymakers can develop targeted interventions and public health programs that are aimed at preventing or managing these conditions in the population.

## CONTACT AND IDENTITY

The Tamil Nadu Population Health Registry (TNPHR) collects contact and identity information on individuals residing in the state. This includes basic demographic information such as name, date of birth, gender, and contact details such as phone number and address.

Collecting contact and identity information in TNPHR is essential for ensuring that individuals can be accurately identified and reached for healthcare purposes. This information is also important for tracking and monitoring individuals' healthcare outcomes over time.

**Since all Services are  seamlessly integrated. Home based  services provides greater  convenience  and  care  for  the needy patients.**

# Tamil Nadu Population Health Registry Web Admin
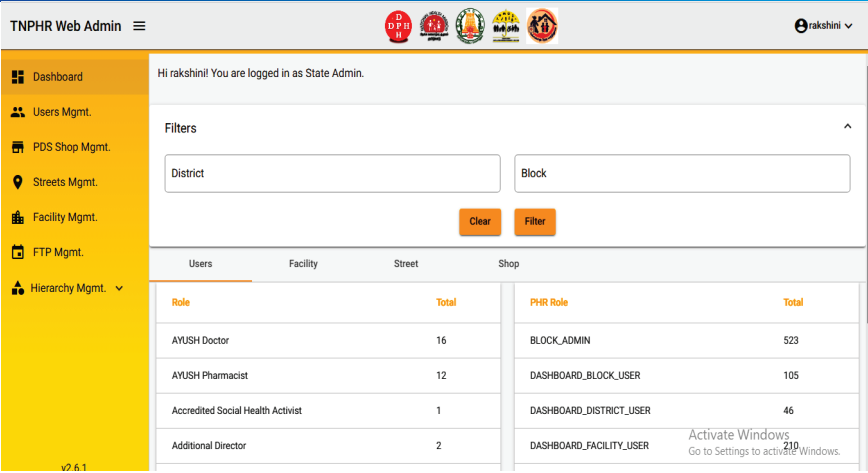


**TNPHR Web- administrative platform** for managing a population health registry in Tamil Nadu, India. The platform includes several Features Dashboard , user management , PDS Shop Management ,Streets Management , Facility Management , FTP Management , Hierarchy Management

✅ **Dashboard**

In the web admin dashboard, includes the reports of users , Facilities , Street , Shop  Reports

✅ **User Management**

"Ensuring Secure and Controlled Access: User Management in the Tamil Nadu Population Health Registry"

✅ **PDS Shop management**

Efficient and Accessible Distribution: Enhancing the Public Distribution System (PDS) through Shop Management.

✅ **Street Management**

It is used to manage streets and neighborhoods within Tamil Nadu.

✅ **Facility Management**

The Facility Management includes information about Districts, HUD Blocks, Owners, Directorates, Categories, Types, Levels, and Facilities.

✅ **FTP Management**

FTP Management  displays information on the District, Block, PHP, and HSC for that unit and split in the current week Shown

✅ **Hierarchy Management**

This module may be used to manage the organizational hierarchy of the population health registry.

## TNPHR WEB DASHBOARD

The TNPHR web dashboard provides real-time data and information on MTM performance, user performance, field verification, rural versus urban performance, population dashboard, MTM Compliance and Control Rate, UHC Performance, Service Monitoring, PBS Screening, and Community Covid triaging.

### MTM Performance and User Performance

MTM performance dashboard displays information on the overall population, age, total screening, verified MTM

Timesmed offers greater support to all government health initiatives (TNPHR, MTM, TAEi, TNPHDR, Labour Screening, RBSK etc.,) for Quality Care for Saving Million Lives.

# Field

## Verification and Population Dashboard

Field Verification includes Statics view of Verified population, New Family Added, New Member Added, Residential Status.

Population Dashboard features charts for the total population, gender breakdown, eligible couple target, child health target, school health target, MTM Target, and Age Population.

# Rural vs Urban

## Performance and UHC Performance

The UHC Performance consists of View of total, general, and referral statistics using static data.- Daily Op, Daily Facility Use, Daily Lab Tests, Daily Drug Delivery.
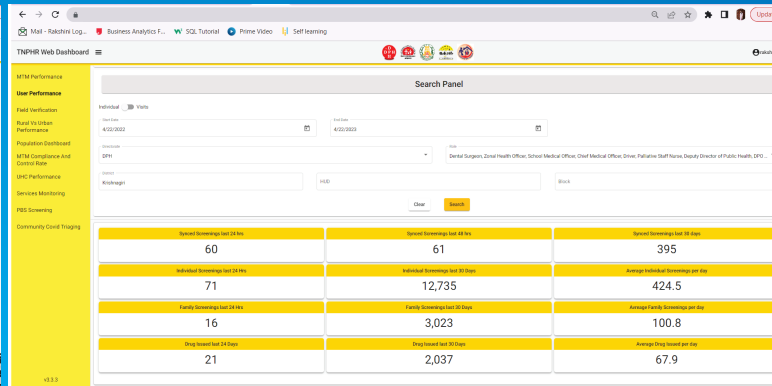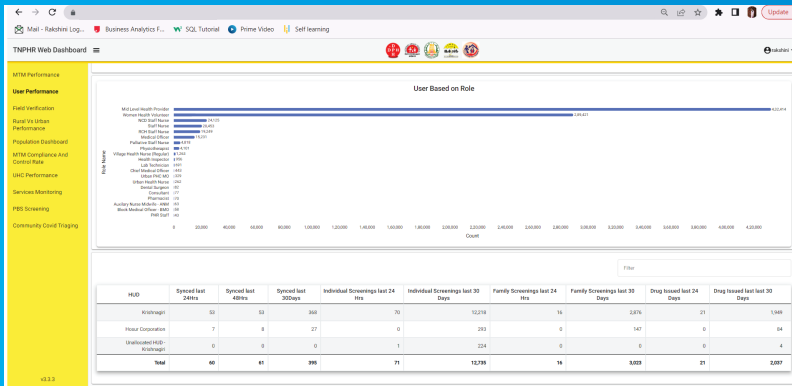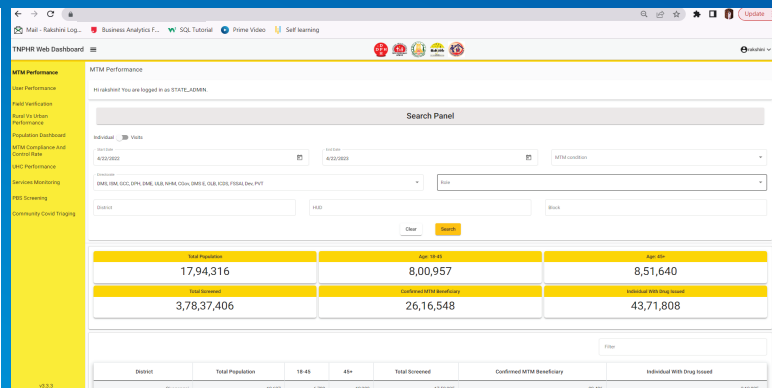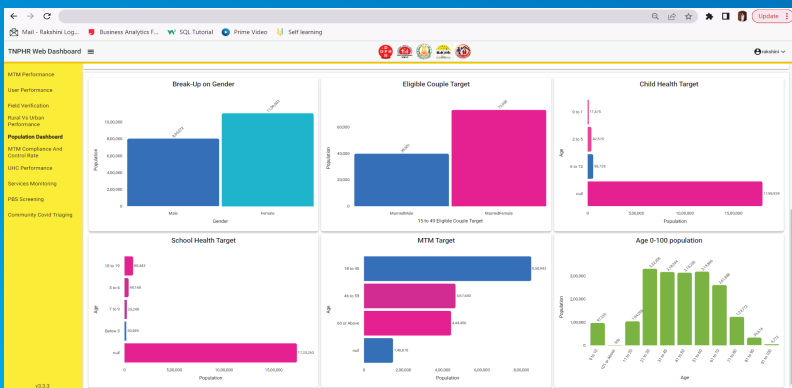




### MTM Compliance and Control Rate

Effectively Addressing Treatment Complaints from MTM Beneficiaries to Improve Control Rate

### Community Covid Triaging

Swift and Strategic Response: Strengthening Community Health with Effective Covid Triaging

### Service Monitoring and PBS Screening

Enhancing Service Monitoring and PBS Screening for Better Patient Outcomes: Quality Service

## TNPHR Data Analytical Report

- The analytical dashboard report of Tamil Nadu Population Health Registry typically includes interactive charts, graphs, maps, and other visual aids that allow users to explore data at different levels of granularity.

- This report can provide valuable insights into the health status of different population groups, the prevalence of specific diseases, and the effectiveness of various healthcare interventions.

Data analytical reports include reports on user and UHC performance, UHC monitoring, service monitoring, rural vs. urban performance, population KPI, population dashboards, PHR performance dashboards, PDS screening, OP dashboards, MTM performance, MTM compliance control rate, MTM beneficiaries, field verification, facility performance, DPH dashboard, data quality, and community covid triage.

# The use of a Dashboard and Analytical Report in the Tamil Nadu Population Health Registry has several advantages, including

### Age Wise Unique Screening

- Below 18 4.05%
- 18 to 29 19.27%
- 30 or Above 76.68%

### Top 5 screened Blocks

| | | | | |
|---|---|---|---|---|
| 4,03,010 | 3,39,313 | 3,32,695 | 3,11,171 | 2,89,376 |

Total Screenings (Y axis: 0, 1,00,000, 2,00,000, 3,00,000, 4,00,000)

Blocks

### Real-time data update
Real-time data updates in population health registries can be achieved through various means, including electronic health record systems, health information exchanges, and disease surveillance systems.

### Data visualization
A dashboard presents data in an easy-to-understand visual format, such as charts, graphs, and maps, allowing stakeholders to identify patterns and trends quickly.
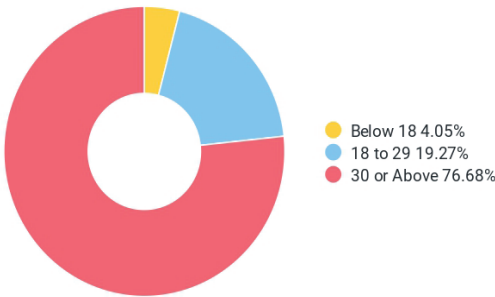
### Timely and Accurate Information
A dashboard and analytical report can provide timely and accurate information on various health indicators such as disease incidence, mortality rates, and healthcare utilization.

### Tracking progress towards health goals
A dashboard and analytical report can help monitor progress towards specific health goals or targets, such as reducing the incidence of a particular disease or increasing access to healthcare services.

## 4,09,70,119
Total Screenings

## 1,81,43,327
Individual Screenings



Newspaper clipping:

Patient Data From Emergency Technicians To Hospital Emergency Rooms, Even Triage Patient

# AI-POWERED SYSTEM TO CUT RESPONSE TIME, ERRORS DURING MED EMERGENCY

REDUCING HUMAN INTERFACE

HOW THE NEW SYSTEM WORKS

- Emergency call is made to 108 from site
- Staff at the 108-call centre receives the call, collects vital information such as patient condition, cause of emergency, address and contact details and feeds the data into the system
- The software uses GPS to track the ambulance closest to the site and dispatches it
- Emergency management technician does first aid and feeds information about the patient into the software using a handheld device (mobile/tablets)
- Duty doctors/ nurses prepare to receive patient – keep crash carts, specialists, scan rooms ready
- The information is relayed to the monitor in ER room
- The software triages the patient's health condition as red (critical), yellow (needs admission and medical intervention) or green (may not require admission) based on it

NEW ADDITION: Patient status display screen at the emergency ward in Kilpauk Medical College and Hospital

DATA
3,88,663 Total Number of calls received in August
1,53,814 Number of emergency calls
1,235 Total ambulances

4.5 Number of trips a day

We have moved to machine operations to cut errors, improve treatment outcomes — Dr Srikanth T L | TRAUMA CARE LEAD

Pushpa.Narayan@timesgroup.com

# 2. TAEI
## (TAEI) TamilNadu Accident And Emergency Care Initiative

Trauma Registry from TAEI is a holistic HUB connecting 108,Emergency departments from All the Government Medical College Hospitals, Government General hospitals, Primary Health Centers, State Health Centers,Super Specialty Hospitals, and Leading Private Hospitals.

This is a 100% World Bank Supported Project, idea is to provide Immediate Health Relief to Trauma Victims. TAEI saves Thousands of lives every month and helps reduce Amputations Cases by many folds.

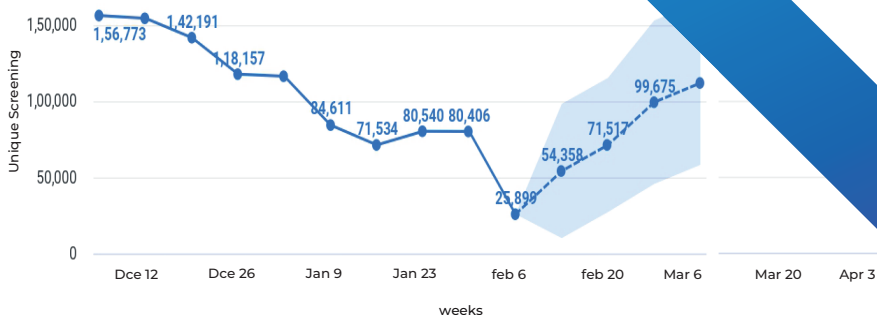Artificial Intelligence-based information flows across 108 Call Centers,Ambulance, EMTs, Emergency departments, and Super speciality doctors. Every Entity is made available on the needed hour for providing quality care to save the life.

The idea of TAEI is to be a holistic hub across all the Ambulances,Hospitals, Government, Private,and Doctors. TAEI will act as a pivotal Registry where complete health information of Trauma patients and Health Centers for greater quality care 24 x 7.

# Application Features Of TAEI

- Pre Arrival Intimation at 75 Centers
- Trauma Reception (Triage Codes: Red, Yellow, Green,  Black)
- Creation of Resuscitation Bay
- Time Stamped Management
- Point of Care Testing at ER
- Linkages with Multidisciplinary Units
- Multi Disciplinary Critical Care Unit
- Nurse Driven Model
- TAEC Protocols
- Capacity Building (Training)
- Formation of Emergency Department
- Rehabilitation starts From the Day of Admission

### Screening Count in Past +4 weeks Projection

Unique Screening

1,56,773 — 1,42,191 — 1,18,157 — 84,611 — 71,534 — 80,540 — 80,406 — 25,898 — 54,358 — 71,512 — 99,675

Dce 12 — Dce 26 — Jan 9 — Jan 23 — feb 6 — feb 20 — Mar 6 — Mar 20 — Apr 3

weeks

# How Life Is Being Saved

Over 27 government hospitals in Tamil Nadu are presently utilizing our TAEI application, which has saved over 6000 lives. This also helps to reduce the risk of IHT and amputation.When the patient is carried into the ambulance, the EMT will color code him or her according to the severity of the consequences. TAEI triage criteria are classified as

.

1. Red criteria - Patients who require intensive care.

2. Yellow criteria - Individuals who require hospitalization.

3. Green criteria - Patients are not in the critical stage.

Trauma Registry : (TAEI) TamilNadu Accident and Emergency care Initiative Integrated and live exchange of Data Between 108 and iRAD (integrated Road Accident Database)

# Functionality Of TAEI

- An integrated interactive internet healthcare platform unites doctors, hospitals, and emergency medical technicians.

- According to a World Health Organization (WHO) research, road traffic accidents have increased to become the eighth leading cause of mortality globally. Given the gravity of the situation, the Tamil Nadu government established TAEI.

- The project's major goal is to assist ambulance drivers in transporting patients to the appropriate hospital, where infrastructure and personnel are available to address the specific situation.

- Hundreds of lives are saved because of this programme. This web programme will connect hospitals, EMTs, and the general public, allowing road accident victims to be saved within Six Hours.

Tamil Nadu alone accounts for 10.7 percent of all traffic fatalities in India. Tamil Nadu accounted for 14,912 people in 2021, a 42 percent increase over 2019. So, in order to minimize reaction time after an accident and make better use of the golden hour, the Tamil Nadu government started an innovation initiative called "Tamil Nadu Accident and Emergency Care Initiative (TAEI)" in January 2018.

TAEI is without a doubt a pioneer initiative in trauma and emergency care provided at no cost by the Government of Tamil Nadu, which can be replicated in other government health centers in low-income countries to meet the challenges in emergency departments and trauma care to patients by increasing immediate diagnosis and decreasing mortality.

Every Single Health Entities, Doctor, Lab, Pharmacy, Emergency, Trauma, 108 and Home Health Services (MTM) are connected. A Single Holistic View is provided for an immediate Quality Treatment.
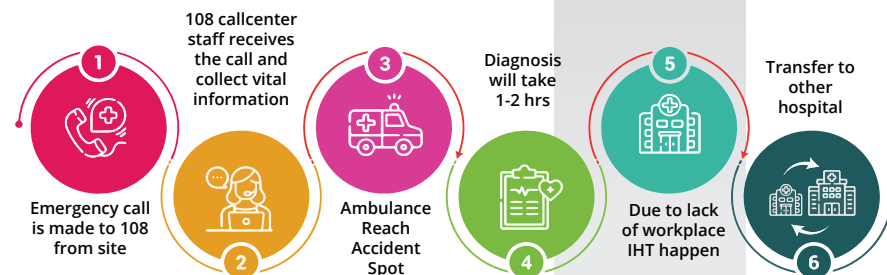
# BEFORE TAEI :

- For many years, the 108 Ambulance has arrived at the scene of an accident and transported the patient to the nearest government hospital.
- Each ambulance is equipped with one fully qualified Emergency Medical Technician (EMT), who offers pre-hospital treatment to the victim as well as a pilot (driver).
- The biggest disadvantage of the approach is that the driver lacks sufficient information about where the patient is to be brought with full infrastructure to treat that specific victim. As a result, they are brought to a nearby hospital, which may not have the appropriate staff for that specific accident.
- The response time is enhanced here, forcing the hospital to use InterHospital Patient Transfer (IHT).
- Prior to the merger with TAEI,victim diagnosis took a long period.
- Ambulance team did not have correct information about the nearest hospital. Response Time was Higher
- The hospital would not be prepared to accommodate the patients due to a lack of information, and bed allocation takes time.

## Integration With IRAD

The Integrated Road Accident Database (iRAD) Project is a World Bank-funded effort of India's Ministry of Road Transport and Highways (MoRTH), with the goal of improving road safety in the country. To do this, an accurate and uniform road accident data collection infrastructure must be established across India. The iRAD mobile and online application was created for this purpose.

### Before TAEI Execution Process

1. Emergency call is made to 108 from site
2. 108 callcenter staff receives the call and collect vital information
3. Ambulance Reach Accident Spot
4. Diagnosis will take 1-2 hrs
5. Due to lack of workplace IHT happen
6. Transfer to other hospital

## SAVING HUNDREDS OF LIVES EVERY DAY, LIFE SAVING TREATMENT WITHIN 6 HOURS OF ACCIDENT

Artificial Intelligence Assist live feed Connected with All Government Hospitals for Super Speciality Treatment within 6 Hours of Accident. Also connecting Many Leading Private Hospitals. Single Holistic Hub saving thousands of lives Every Day 24/7.
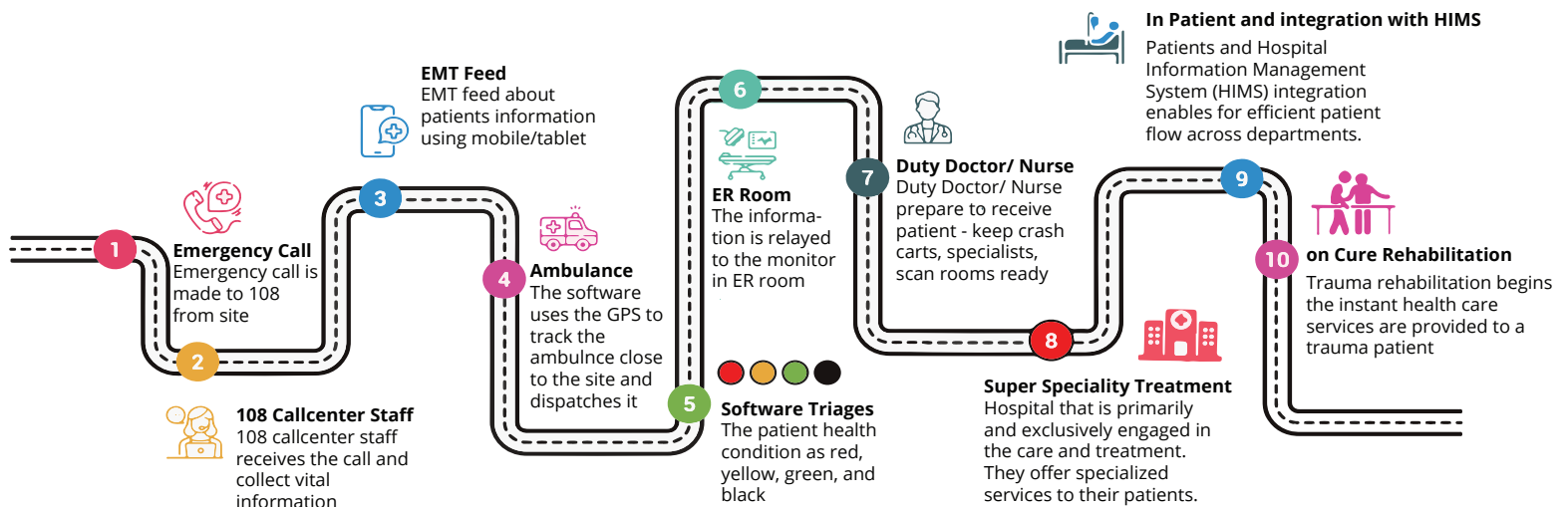
A Life Saving Innovation: Integration of 108 EMRI Ambulance with the Tamil Nadu Accident and Emergency Care(TAEI). In the Emergency Department, approximately 1500 trauma cases are treated daily.

# AFTER TAEI

- Once a victim meets an accident depending on their triage level, the necessary treatment step is taken.
- Ambulance teams have essential information about the patient's injury that helps them get to the appropriate hospital.
- Response time will be faster
- The work force and bed were already assigned to that victim based on the information provided by the EMT
  Even though trauma care was provided free of charge prior to the establishment of TAEI, it assisted the Tamil Nadu government in not only preserving quality health care but also saving 1 lakh lives annually.

**1** **Emergency Call**
Emergency call is made to 108 from site

**2** **108 Callcenter Staff**
108 callcenter staff receives the call and collect vital information

**3** **EMT Feed**
EMT feed about patients information using mobile/tablet

**4** **Ambulance**
The software uses the GPS to track the ambulnce close to the site and dispatches it

**5** **Software Triages**
The patient health condition as red, yellow, green, and black

**6** **ER Room**
The information is relayed to the monitor in ER room

**7** **Duty Doctor/ Nurse**
Duty Doctor/ Nurse prepare to receive patient - keep crash carts, specialists, scan rooms ready

**8** **Super Speciality Treatment**
Hospital that is primarily and exclusively engaged in the care and treatment. They offer specialized services to their patients.

**9** **In Patient and integration with HIMS**
Patients and Hospital Information Management System (HIMS) integration enables for efficient patient flow across departments.

**10** **on Cure Rehabilitation**
Trauma rehabilitation begins the instant health care services are provided to a trauma patient

# 3.MTM
## Makkalai Thedi Maruthuvam

MTM's main goal was to eliminate poor people's visits to various hospitals through the Tamil Nadu Doorstep Healthcare Scheme.Makkalai Thedi Maruthuvam is a system that provides essential healthcare to people at the doorstep. The initiative will revolutionize the delivery of primary healthcare, ushering in a new era in which the poor can receive critical medical treatments directly to their homes.
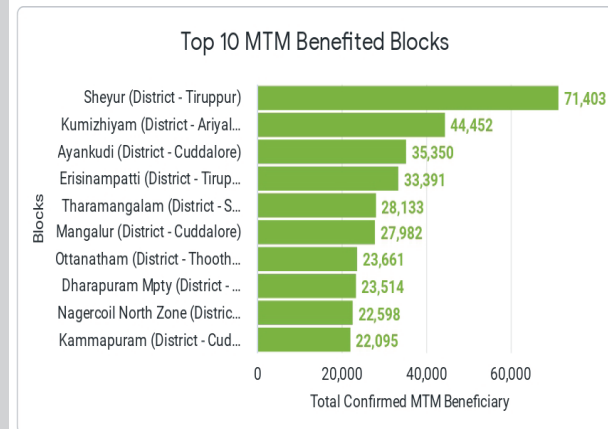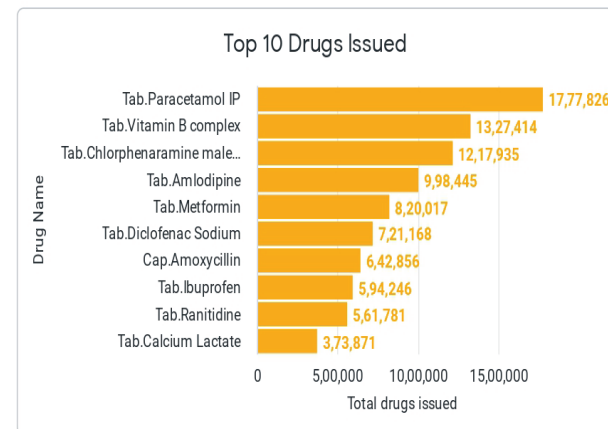
Makkalai Thedi Maruthuvam  cover 1,172 health sub-centres, 189 primary health centers and 50 community health centers across 50 universal health coverage blocks in the state.An important Features is that every line listed beneficiary under the scheme  will be brought  under the population Health Features (PHR).As part of the MTM, women public health professionals, women health volunteers (WHVs), physiotherapists, and nurses will provide  healthcare  at  the  doorstep.

Makkalai Thedi Maruthuvam will screen those above 45 years of age and others with infirmities through routine door-to-door check-ups and detect non-communicable diseases that are also seen to cause sudden mortalities and impact the quality of life. The scheme will hinge on women public health workers, women health volunteers(WHVs), physiotherapists and nurses, who will provide healthcare at the doorstep.

The scheme was simultaneously launched in Thanjavur, Tiruchi, Tirunelveli, Coimbatore, Chennai, Salem and Madurai with a cumulative allocation of ₹258 crore and a targeted coverage of 30 lakh families and 1 crore population. 218 private and 422 government hospitals are part of the scheme.

# KEY ASPECTS OF THE MAKKALAI THEDI MARUTHUVAM

- It will transform the early health care system and grow by delivering essential medical services to the poor in their own homes.
- People-seeking medicine can reduce sudden deaths and improve quality of life by routine home-to-home screening and diagnosis of non-communicable diseases for those all over age and the sick.
- Female public health workers, women health volunteers (WHVs), physiotherapists, and nurses who will deliver door-to-door health care services.
- High blood pressure and diabetes, both of which are common in the communities, will be treated with monthly medicines delivered to their doorstep. Physiotherapy will also be made available to individuals who require it.This approach involves children being screened for kidney problems and birth abnormalities, followed by hospital treatment. People with kidney disorders will be offered dialysis with portable dialysis devices at the appropriate time.

- Self-dialysis was provided to 1,259 patients and Palliative care has been provided to 1,90,932 persons.

- The ambitious initiative was launched in August 2021 at a cost of Rs. 258 crore to ensure that people with comorbidities, the disabled, and the elderly had access to medicine and healthcare at their doorstep

### Top 10 Drugs Issued

| Drug Name | Total drugs issued |
|---|---|
| Tab.Paracetamol IP | 17,77,826 |
| Tab.Vitamin B complex | 13,27,414 |
| Tab.Chlorphenaramine male... | 12,17,935 |
| Tab.Amlodipine | 9,98,445 |
| Tab.Metformin | 8,20,017 |
| Tab.Diclofenac Sodium | 7,21,168 |
| Cap.Amoxycillin | 6,42,856 |
| Tab.Ibuprofen | 5,94,246 |
| Tab.Ranitidine | 5,61,781 |
| Tab.Calcium Lactate | 3,73,871 |

### Top 10 MTM Benefited Blocks

| Blocks | Total Confirmed MTM Beneficiary |
|---|---|
| Sheyur (District - Tiruppur) | 71,403 |
| Kumizhiyam (District - Ariyal... | 44,452 |
| Ayankudi (District - Cuddalore) | 35,350 |
| Erisinampatti (District - Tirup... | 33,391 |
| Tharamangalam (District - S... | 28,133 |
| Mangalur (District - Cuddalore) | 27,982 |
| Ottanatham (District - Thooth... | 23,661 |
| Dharapuram Mpty (District - ... | 23,514 |
| Nagercoil North Zone (Distric... | 22,598 |
| Kammapuram (District - Cud... | 22,095 |

## MTM Achievement Highlights

Patients have been given door-to-door treatment services.
Treatment facilities are available at no cost.Patients will benefit from the inclusion of 25,000 health workers who will provide them with free medical care.

In order to facilitate the medical records of Tamilnadu state patients, patients registered under this plan would be given unique IDs. This Unique Id will let them integrate medical information into their database so that patients can be identified quickly.

### 7000000  People Are Covered Under Makkalai Thedi Maruthuvam Scheme

- The Makkalai Thedi Maruthuvam application is a user-friendly interface in which patients' records are digitally captured. Patients' records are displayed as a daily report in the dashboard including service offered by HSC and  PHC.When a beneficiary receives 'first time' service through MTM, it is recorded  as 'First Time Service' section.When a beneficiary receives 'Repeat' services under MTM, it is  recorded  as 'Repeat services' field. This will help determine if the beneficiary is receiving MTM for the first or second time.

## Medical Team Formation

A Medical Team consisting of women public health workers, women health volunteers, physiotherapists, and nurses will provide home-based therapy for hypertension and diabetes.

## Digital Records

The health details of each and every member of the state will get digitalised. Now nurses don't need to carry a huge register to keep a record of each and every detail of the patient.

## Application Flow

### ✅ Information Collection Page

- Date of reporting
- The capturing of patient screening number through input form
- Capturing of the event as conditions from the input form (gender and service specified)

### ✅ Dashboard And Reports Page

- The reporting page has a straight and hierarchical structure based on the institutions' listings.
- Department level segregation of dashboards along(DPH,DME,DMS) with the cumulative (NHM).

### ✅ Service offered PHC ( Primary Health care)

- In Service offered PHC features ,the users able to see the list of PHC available under the block need to display
- The Users entered the details like Diseases(Hypertension, Diabetes, Both DM & HT , Palliative care , physiotherapy, Dialysis(CAPD) bags.

## OVER 1 MILLION BENEFICIARIES AND MILLIONS OF MEDICAL RECORDS

### Serviced offered HSC:

- In Serviced offered HSC features the list of HSC will be display under PHC

About 1,264 women health workers, 50 physiotherapists and 50 nurses have been appointed to implement Makkalai Thedi Maruthuvan in the 7 districts, where it has been launched. By the end of the year, the government is hoping to extend the scheme to the entire state, after an induction of an estimated 25,000 additional health care workforce (healthcare volunteers and nurses).

# 4. Tele-consultation - Video consultation

Tamil Nadu, Govt was the first in the country to implement Video Consultation for the quarantine patients. TimesMed implemented the Solution in a record Time. More than 1 million Consultation during the 1st Phase of Covid.
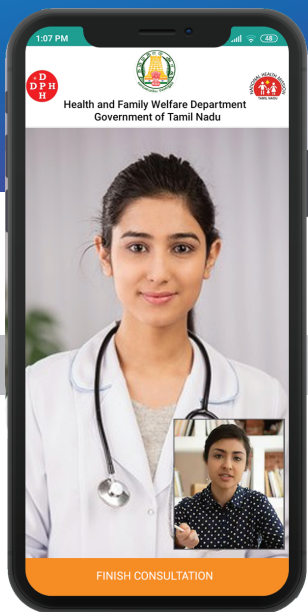
Recently ,humanity had to deal with a worldwide pandemic called COVID-19, which has caused the death of hundreds of thousands of people and paralyzed the global economy. Struggling to cure infected patients while continuing to care for patients with other pathologies, health authorities have faced the lack of medical staff and infrastructure.

Hospitals were overflowing with COVID patients, and the family didn't want to put the senior citizen at risk. Following a brief discussion, the Tamil Nadu government opted to use teleconsultation with a doctor, a medical site that connects patients with doctors for a variety of healthcare requirements, particularly for Covid 19 patients who require home isolation consultation and medical advice.

On the one hand, doctors were overworked, while outpatient services were either abandoned or patients were discouraged from visiting the doctor to prevent the spread of disease. In these circumstances, many non-COVID, Covid patients , and non-critical patients in the metropolis turned to telemedicine or virtual consultations.

**1:07 PM**

DPH
**Health and Family Welfare Department**
**Government of Tamil Nadu**

FINISH CONSULTATION

## MORE THAN 1 MILLION VIDEO CONSULTATION FOR THE QUARANTINE PATIENTS DURING THE COVID TIME

### Patient's App
- Connects Doctor Anytime
- Integrated Pharma and Lab
- Medicines Delivered @ Door
- Lab Sample Collected @ Door
- Reports on App

### Doctor's App
- Best Video App Ever
- Video Connects  on Regular 3G
- High Quality Video
- No Crash, Re Connect Options
- Toggle Video & Text Simultaneously
- Increased Footfalls
- Remote Service
- Subsequent Appointments
- Subsequent Reviews
- Prescription
- Prescription Templates
- Clinical Notes
- Waiting Room
- Schedule a Call

### Consult At Your Ease

Consult your doctor / Hospital 24*7 from anywhere in the world Connect via Video Voice / Text

### Follow up Appointments

After Consulting your doctor Hospital Over Online you can fix up an appointment with Doctor

### Private & Secure

Consult your preferred doctor Hospital and share reports Save time, money and get securely consulted

### Follow up Reviews

After Consulting Doctor at Hospital follow up Review can be made through Online

## Specialties Consulted online

Cardiac

Diabetics

Infertility

Pregnancy

Pediatrics

Weight Mgmt

## Convenience of Being @ Home and Get Connected to Super Specialties

### Book Appointment

Highly Sophisticated Video Consultation anytime anywhere from the convenience of home for both practitioners and patients. With immediate and Scheduled options along with features like waiting Room, Notification, Sharing of Health Records, live References and Group Consolations with Prescriptions-for Lab & Pharmacy along with Clinical Notes that saves million lives.

After the First Enquiry or Consultation Over Online. Patients can Schedule an Appointment with Doctor at the Clinic or Hospital

### INTEGRATED FLOW OF INFORMATION

Consult Doctor Online
Medicines Prescribed
Medicine Door Delivered
Lab Sample Collection @ Home
Reports Delivered on App
Reviews over Online
Follow up Appointments
Follow up Reviews

### High Quality Services Extended to Remote Places

Years had gone by where consultation in remote areas were only a dream.

Consult Super specialties at the flick of your finger. Super quality Care at your convenience.

### Fulfillment of Hospital Founders Dream

The Dream of Hospital Founders is to offer a Quality Care and save million lives.
They can reach millions over the TeleMedicine and provide Quality Care Subsequent Consultation Can be Booked at Hospital

### Hospital Efficiently Managed through Smartphone

Doctors / Hospitals Can effectively Managed their operations from Smartphone with Great insights from Analytics. Higher Conversions to Hospital, Pharmacy and Laboratory

### Recording (Video & Audio)

Easily and securely record live video sessions for later playback or analysis. All video recordings can be protected with AES-256 encryption in transit and at rest to maintain deeper security.

### Other Features :

Family tree
VIP and VVIP Patients Handling
Single Mobile Number Multiple UHID
Instant or Scheduled Appointment
Advanced Algorithm for Waiting room and Queue
Easy to use on the anytime anywhere
Sophisticated appointment Management
Patient waiting list (Offline | Online)
Department wise progress comparisons
Queue Pushing & Management

Waiting Room
Electronic Medial Record
Document uploading & Viewing
Department wise Available Doctors
Prescription – Template Based | New
Tightly integrated Pharmacy, Laboratory, All Modules
Call Re-Schedule | Swap call
Complete Data Security – Data Owned by Hospital
Easy to use on the anytime anywhere
MO|Admin based Patient Query Conversion Management

# 5. HIMS Hospital Information Management System & CMS Clinical Management Solution

TimesMed Facilitates Online Appointment and Offline Walk- in with Realtime Sync

## Paperless Seamless Worflow
Paperless Experience
Seamless Workflow Of Information

## Doctor Appointments
Online - Walkin - Phone - Real Time Sync
Scheduling / Cancellation / Swapping
Flexible Scheduling, Delay Notification

## OP & IP Management
Id, Barcode & Qr Code Generation

## Admission & Room Management
Room Types, Room Priorities,
Guest facilities

---

**TimesMed.com** *For All Medicinal Needs*

**DOCTOR DASHBOARD**

Dr Alberto

- Calendar
- Current Appointment
- Hospital Appointment
- Emergency Appointment
- Emergency Patient List

### Current Appointment

Date Range: 05/01/2018 to 11/15/2018 Go!

Search by Name,Email Id,Mobile Number or Patient ID

**Scheduled Appointment List** 65

| 73 Scheduled | 0 Waiting |
| 26 Checked Out | 5 Cancel |

4 OT Request Count

1 Follow Up Appointment

41 Missed

0 For Confirmation

Name : Mani — 05/03/2018 5:00PM
Symptoms : Fever — Confirmed Appointment : 1
Hospital Name : Billroth Hospital Shenoy Nagar — Missed Appointment : 1
ID : 3364 Visit ID : 25499

MISSED | VITAL COLLECTED | NOT PAID

PRINT BARCODE | VITAL SIGN

Patient Id | Bar Code

---

Analytics Helps improve the functioning of Hospital in an efficient way

## Comprehensive EMR
Prescription Bedside Notes,
Progression Notes - Graphical Report Chart
Emergency Tracking & Alerts Discharge Summery

## Emergency Management
Easy Emergency Management
With An Options To Convert Ip Or Refer

## Observation & Treatment
Nurse Observes The Patient
And Treat Initially

## Nursing
A multiple login based Nursing
module to assign and Track the
Routine and Emergency Works

## Operation Theatre
Appointment Scheduling,
Doctors Notification
Inventory & Blood

## Accounting
Ledger, P&L Accounting
Balance Sheet

## LIMS
Comprehensive Lab Information
Management System Sample
Collection,4 Levels of Process
Inventory & DR

## Duty Rooster
Duty Allocation, Leave Management,
ReAllocation

## Billing
Comprehensive Billing, Taxes,
Coupon Management
Redemption & Wallets

## Assets Management
Assets Inward, Assets Master,
Assignment,  Tracking, TCO,
ROI, Disposed

**With Smartphone, Doctors Can Access Data From Anywhere Giving More Time for Providing Quality Care on Patients.**

## Blood Bank
Internal & EXternal

## Ambulance
Schedule Maangement, Real Time
Tracker

## House Keeping
Duty Rooster, Daily Tracker

## Laundery
A Complete Laundry And Bed
Management
With Daily Deliveries

## Analytics & Reports
Hospital, Doctors data Analytics,
Sales Report, Comprehensive
Graphical Reports Dynamic
Report Writter

## Pharmacy & Inventory
ABC Analysis, FIFO & LIFO,
Re-order Mgmt,PO, Batch
Number Based Stock Maintenance
Hight Value Low Selling Stocks
Debit Note & Vendor Mgmt

## HRM
Recruitment, Attendance
Management,Payroll
Management, Rewards,
Training etc.,

## Canteen
Real Time Ordering, Food Priorities

## Alerts & Notification
Comprehensive Alert z Management

## Insurance - Real Time
Can Be Integrated With Realtime With External Insurance Providers

## Technology
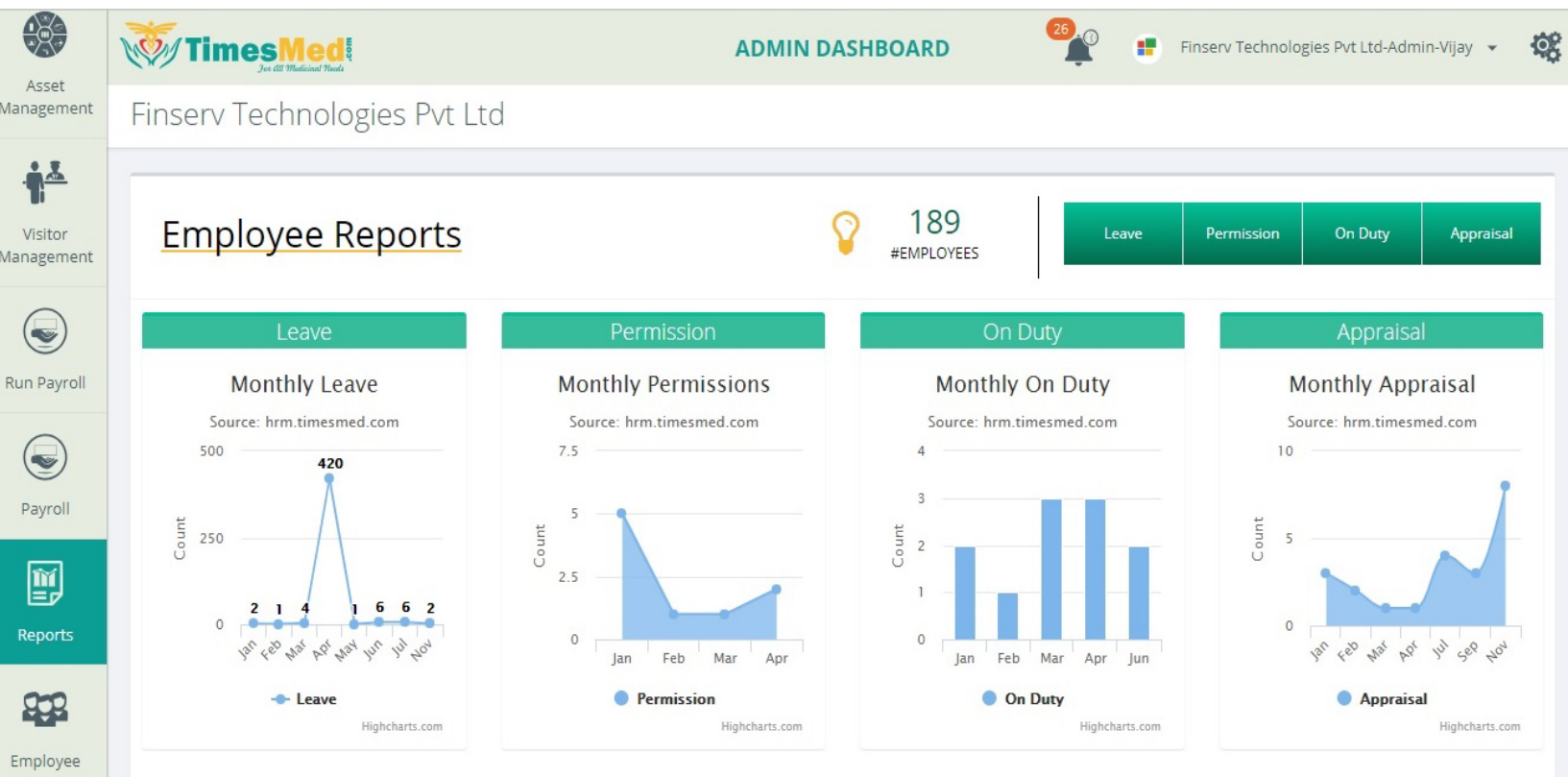SPA - Single Page Application Architecture Angular JS, JQuery, JSON IOS, ANDROID

## IM/UAM - Identity Management
User Creation, User Access Definition Roles & Previlleges

## Responsive Access
Access from smartphone Anywhere Anytime

---

**TimesMed**.com
*For All Medicinal Needs*

**ADMIN DASHBOARD**

26

Finserv Technologies Pvt Ltd-Admin-Vijay ▾

Asset Management

Visitor Management

Run Payroll

Payroll

Reports

Employee

### Finserv Technologies Pvt Ltd

## Employee Reports

189
#EMPLOYEES

| Leave | Permission | On Duty | Appraisal |

### Leave
**Monthly Leave**
Source: hrm.timesmed.com

500

420

250

Count

2  1  4     1  6  6  2

0
Jan Feb Mar Apr May Jun Jul Nov

● Leave

Highcharts.com

### Permission
**Monthly Permissions**
Source: hrm.timesmed.com

7.5

5

2.5

Count

0
Jan  Feb  Mar  Apr

● Permission

Highcharts.com

### On Duty
**Monthly On Duty**
Source: hrm.timesmed.com

4

3

2

1

Count

0
Jan  Feb  Mar  Apr  Jun

● On Duty

Highcharts.com

### Appraisal
**Monthly Appraisal**
Source: hrm.timesmed.com

10

5

Count

0
Jan Feb Mar Apr Jul Sep Nov

● Appraisal

Highcharts.com

---

## Online Consultancy
## Video | Text Consultation

Connecting Remote Patients

Online Appointment Booking

Web | IOS | Android

# CMS - Clinical Management Solution

Our Clinical Management System, is a software solution that helps healthcare organizations manage various clinical and administrative tasks. It is an integrated system that provides a range of features and functions to manage patient data, appointment scheduling, billing and payments, and medical records.

**Physicians**

**Online Prescriptions**

**Uploads**

**Appointments**

**Online Bills & Payments**

**Patient Registeration**

**Tele-Consult**

## Super Rich Clinic Management

Enables Your Practice With Paperless Superrich Featured Clinic Management Solution

## Online Consultation

Make Online Consultation With Patients through Text Chat And Video Call

## Flexible Schedule Management

ON - OFF Practice Time, ON-OFF Practise Session as Per Your Convenience

## Pharmacy & Inventory

Operate Your Own Pharmacy With inventory Module Maintain Your Own Inventory Management

## Lab & LIMS

Operate Your Own Lab With Exhaustive "Timesmed LIMS"

## Emergency Management

Easy Emergency Management With An Options To Convert Ip Or Refer

☑ **Smart Phone Is Your Clinic**

Operate Your Clinic From Your Smartphone From Anywhere

☑ **EMR (Electronic Medical Record)**

Prescription - Pharmacy  Lab, Observation Notes, Medical Summary etc...

☑ **Publish Health Packages**

Design Your Health Packages or Health Schemes TimesMed Publishes And millions Of Patients Would Be Notified

☑ **Pharmacy & Lab**

When Rxing Doctor Can choose the Lab & Pharmacy of their choice Rx goes to the same through chat and share files

## Voice Based Rx.

Templatized one stored With Names can be invoked By voice call. Easy Rxion
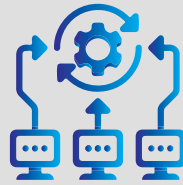
## Integrated Flow

Pharmacy, Lab, Billing Patients are all seamlessly Integrated.

## Review Control

Reviews Under Your Control

## Online Consultation when free

You can be part of online Consultation Video | Text Service additionally

## Billing, Accounting & Reports

Integrated Paperless Flow Of information Even With Your external Pharmacies And Laboratories

## Emergency Management

Easy Emergency Management With An Options To Convert Ip Or Refer

## Delay Notification

Notify Patients Incase Of Delay

## Single Page Complete Practice

One Tabular based Page Diagnosis, Rx, Clinical Note And all will be covered easy use On the Go And Treat Initially

## Business Analyzer

Analyze As How You Can Improve your Practice Bring More patients And Be Successfull

## Integrated Partners

Your External Partner Lab And partnered Pharmacies Are Now Part Of Your System

☑ **Easy Identification**

Identify your Name or Hospital Name eg. " TimesMed/Dr.Name"

☑ **Refer Fellow Doctor**

Refer Patients To Fellow Doctors & Share Their Medical Records

☑ **Observation & Treatment**

Nurse Observes The Patient And Treat Initially

☑ **Internal Communication**

communicate with patients, internal entities and external doctors or partners through chat and share files

# 6. LIMS - Laboratory Information Management System

Laboratory Information Management System is a complete solution adapted by laboratories to meet their requirements and solve lab-based challenges..

Creating ease of use & experience comes down to the laboratory & machinery, software, & systems they rely on for the sample collection process.
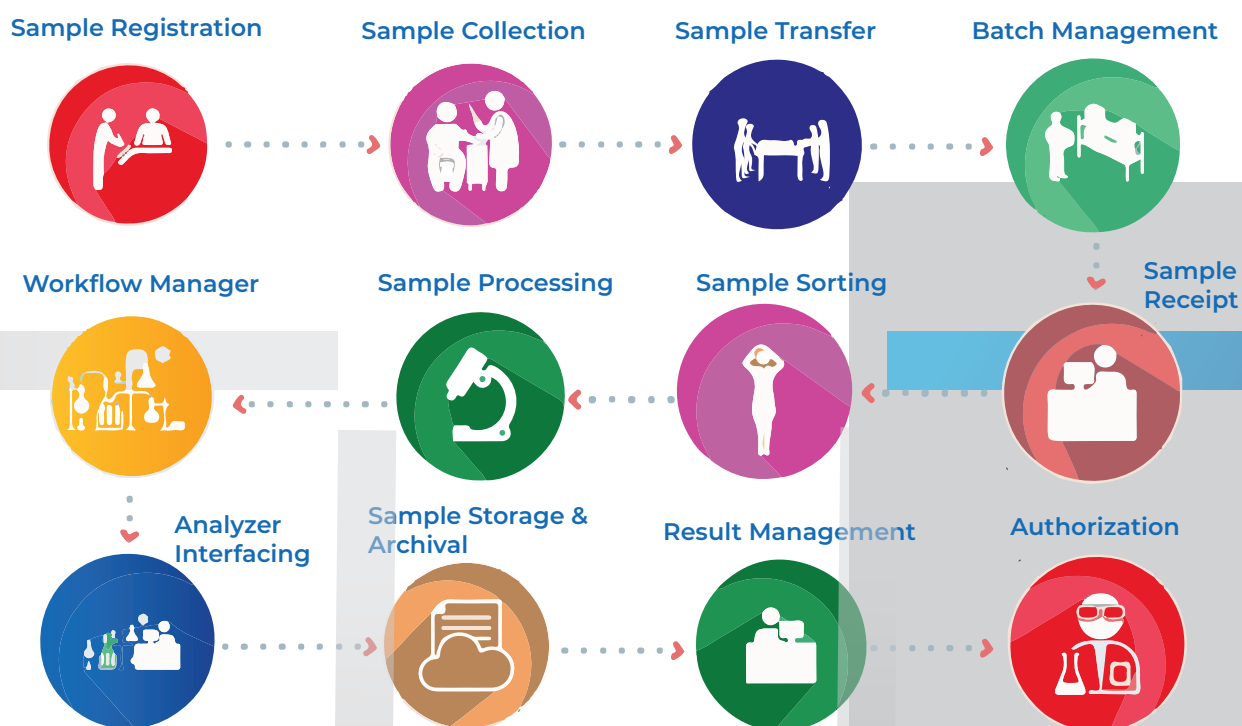
Patient-centric TimesMed LIMS designed to automate data processing operations within a laboratory and facilitate its integration with other systems involved in data exchange & comprehensive solution adapted by laboratories to satisfy their needs and eliminate lab-related difficulties



## MULTI-SITE, MULTI-LAB NETWORKING FOR YOUR LABORATORIES

TimesMed LIMS is built from the ground up to administer and manage electronic orders from multiple sources. TimesMed LIMS takes the complex task of receiving digital requisitions from a multitude of places and organizes them for you. Paperless E-Requisitions are ordered directly in the TimesMed LIMS interface and are instantly ready to print the with barcodes labels.

## LIMS WORK-FLOW



Sample Registration → Sample Collection → Sample Transfer → Batch Management → Sample Receipt

Workflow Manager ← Sample Processing ← Sample Sorting ← Authorization

Analyzer Interfacing → Sample Storage & Archival → Result Management → Authorization

TimesMed LIMS Workflow Manager automates the sample handling procedure, enabling the technician to monitor it in real time. Reduce the standby time now and make it clear where the sample is and where it will travel next.

Patient-centric TimesMed LIMS designed to automate data processing operations within a laboratory and facilitate its integration with other systems involved in data exchange & comprehensive solution adapted by laboratories to satisfy their needs and eliminate lab-related difficulties
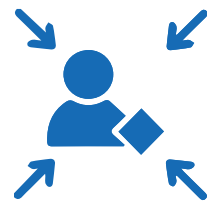
It reduces data loss and eliminates human errors.Ensures simple integrity, and easy functioning of each process.

From the initial stage of induction till the end it tracks the sample, and store detailed information such as its source, manufacturing date, expiry date, batch number, batch size, and all important data.

## Test Management System

The TEST MASTER allows easy tracking, controlling, and monitoring of test. Moreover, it enables users to manage the easy entry of data, approval of results, and generation of reports.

TimesMed LIMS keeps a record of each unique barcode sample

It also manages the information about the test to be performed on the sample, the department in which the sample will be allocated, and the status of the sample.

It stores information of Test,Organize each sample priority wise.

Built with sophisticated technology, it is highly adaptable, compliant, and user-friendly software.Ensure complete privacy and security to stop unauthorised changes and data breaches.
.

# 5 Million Test

# 4 Million Samples
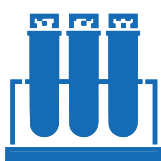
It manage the total number of tests, data of allocation of tests, collects information of tests that are going to be performed on samples.

Easy to handle lab operations, complex configuration, set parameters for test, verify results and generate reports.Utilize built-in electronic sheets to gather all test results to reduce extra work and cost of time.

## SPECIMEN MANAGEMENT ROUTING & TRACKING

Our accessioning management module allows you to keep track of exactly where each specimen is at all times.

## PATIENT PORTAL

Patient registration, scheduling, requisitions, and results are all completed and delivered via our secure patient portal

## RESULT INTEGRATION & MANAGEMENT

Results can be automatically imported from your testing devices.

## OUR FEATURES :-

### Client Management, Invoicing & Credit Control

The TimesMed LIMS has a billing module in place that generates bids, orders, and bills for further export to various accounting programmes.

### Billing Sample Registration

On receiving a sample, a lab worker logs it in along with the customer data.The registration process involves marking the sample with a unique barcode necessary for further tracking. The TimesMed LIMS generates a barcode containing data points for reading

### Sample Collection At Home

It depend on home-based sample collection for diagnostic services. eg: post-surgery patients, heavily pregnant patients, elderly patients, and chronically ill patients.

### Analytical Report

TimesMed LIMS can provide a trend analysis chart by test, department, client, site, or a variety of other parameters using historical data.

### Report Printing and Dispatch

Labs can reduce report dispatch time with the report prints section.The new version allows you to print reports in bulk to save you time and allows advanced filters so that you can print only the reports which you want to print.

### Management Information System Reports

Summary reports are a form of MIS report designed to display aggregate data and give a summary.

### Inventory and Data Management

TimesMed LIMS that enables efficient management of samples and related data. Your lab may manage samples and related data, automate workflows,Storage system, purchase order manager,barcoding etc.

### User access management

Summary reports are a form of MIS report designed to display aggregate data and give a summary

### INTEROPERABILITY

Flexible, customizable inbound and outbound capabilities that allows you to work with other systems.

### Granular Control of Individual Test Results

Easy click into a result and you can edit each individual test.

.

# 7. TNPHDR - Tamil Nadu Pregnant Women and Heart Disease Registry

The TNPHDR or Tamil Nadu Pregnancy and Heart Disease Registry is a database created to track and monitor women in Tamil Nadu, India who have both pregnancy and heart disease. The registry collects data on the outcomes of these pregnancies, including maternal and fetal complications, to help improve the management and care of pregnant women with heart disease.

## "Protecting both hearts: Ensuring safer pregnancies in Tamil Nadu through maternal cardiac care."

The Tamil Nadu Pregnancy and Heart Disease Registry (TNPHDR) is a prospective, multicentric and multi- disciplinary registry of PWWHD from 29 participating sites including both public and private sectors, across the state of Tamil Nadu in India.

The TNPHDR is aimed to provide data on incidence of maternal and fetal outcomes, adverse outcome predictors, applicability of the modified World Health Organization (mWHO) classification of maternal cardiovascular risk and the International risk scoring systems (ZAHARA and CARPREG I & II) in Indian population and identify possible gaps

- The TNPHDR software build by TimesMed and collaboration between the Madras Medical Mission in Chennai and the University of Ottawa Heart Institute in Canada.

- Tele consultation has been a means of providing healthcare information not only to infected people but also to non-infected people during this infectious pandemic.

- It is the first registry of its kind in India and one of the few in the world that focuses on the intersection of pregnancy and heart disease.

- Pregnancy and heart teams will be formed in all participating sites. Baseline demographic, clinical, laboratory and imaging parameters, data on counseling received, antenatal triage and management, peripartum management and postpartum care will be collected from 2500 eligible participants as part of the TNPHDR.



ADMIN DASHBOARD

| | | |
|---|---|---|
| 2995 Enrolled Mothers | 2973 First Visit | 15 Revisit (Antenatal visit) |
| 1462 Follow Up 1 Month | 1149 Follow Up 3 Month | 2701 Follow Up 6 Month |
| 474 Institute of Cardiology, Madras Medical College, Chennai - RGH | 207 IOG, Madras Medical College, Chennai - IOG | 40 RSRM, Stanley Medical College, Chennai - SMC |
| 63 TNGMSSH, KGH Omandurar Medical College - KGH | 0 Mehta Hospital, Chennai - MTH | 15 Sri Ramachandra Medical College, Chennai - SRM |

**TNPHDR is a collaborative effort between the Tamil Nadu government, the Madras Medical Mission, and the Indian Council of Medical Research (ICMR).**

Award-winning initiative: The TNPHDR has won several awards, including the BMJ India Award for Excellence in Healthcare in 2017, recognizing its innovative and successful approach to addressing the healthcare needs of a vulnerable population.

The registry collects information from participating hospitals across Tamil Nadu and is used to identify high-risk pregnancies, inform clinical decision-making, and evaluate the impact of interventions on pregnancy outcomes.

# 8. Delivery App - Lab Samples, Tests & Deliveries

TamilNadu Government uses Smart Delivery Apps to optimally mange deliveries of Laboratory Test Samples between multiple locations. Tamil Nadu government offers Laboratory Services at the near doorsteps and convenience of home or very nearby available Health Facilities.

Civilians visit nearby health facilities and leave the samples for the Lab Test, Lab Technicians collect the samples and sends it to the nearby PHC or Medical College or Government Hospitals for the Tests. When the Tests are done. Results are updated onto the System and send to respective persons.

Across the States between health facilities the samples are collected and various regular and spatiality Test will be facilitated to the Civilians

The Management of Samples through an effective delivery app where the Delivery Persons are notified the Pick up of Samples and Delivery Locations. Maximum per delivery person may have 3 or 4 pick up locations and same number of delivery locations.

Delivery Tracking, Kilometer of Travel, Number of Samples, Total Deliveries every single information is being tracked and logged for the effective reports and management.
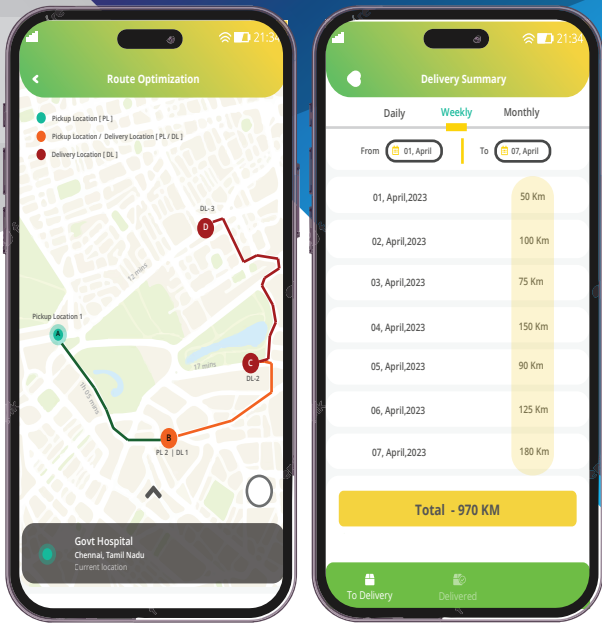
Lab Technicians notifies the availability of samples after collecting it from patients and notifies the delivery persons. Based on the pick up locations and delivery locations the best optimized route options are provided to delivery boy where he executes the deliveries

## The following features of the Delivery App

- ☑ Daily Deliveries Home Page
- ☑ Multiple Pick up Location & Multiple Deliveries
- ☑ Best Optimized Route Map
- ☑ Neatly Arranged Delivery Bags with List of Items
- ☑ Delivery Time Tracking
- ☑ Rider Location Tracking
- ☑ Delivery Notifications
- ☑ Delivery Persons Profile
- ☑ Delivery Report with kilometers
- ☑ Real Times Movement of Samples

- ☑ Lab &Delivery Manager Tracking the Sample
- ☑ Reviews and Rating management
- ☑ Samples management
- ☑ Incentives management
- ☑ Dashboard
- ☑ Managing Samples
- ☑ Report Management
- ☑ Delivery Persons Management
- ☑ Masters
- ☑ Optimized Route
- ☑ Notifications

There are close to **3000** government facilities where Laboratories will be available that facilitates the Lab Testing and expected to be **50,000** plus kilometers of travel across facilities for the pick up and deliveries of samples.

# 9. COVID-19 WAR ROOM

- In the midst of a vicious second wave of Covid-19, the Tamil Nadu government established the 'Covid war room' for people who were struggling to find beds with oxygen and intensive care units (ICUs) on time.

- The Covid-19 War Room is a cross-departmental focal point for Covid-19 control actions across the state. The war room acts as a single point of contact and command center for both government and private hospitals in controlling bed availability, particularly for critically ill patients who require oxygen and mobility( Ambulance), as part of this strategy.

- The War-room application is also  intended to reach out to the general public and address their needs during a pandemic.

- Covid War room is created to fill the gaps to solve the problem of lagg beds and medicines and oxygen supply etc. This is a tool to solve the lagging gaps

# Application Features

### BED REQUEST FORM

USERS PROFILE, SYMPTOMS, COMORBIDITY AND VITAL SIGNS by entering the details the request to the bed will submit.

### OXYGEN REQUEST FORM

Oxygen request forms include two types of information: hospital information and oxygen. The hospital requests oxygen by filling out the required area, and the oxygen will be delivered to the hospital.

### OTHER QUERIES

This process is used to solve lagging problem .It Covers the Wide category like Medical advice , health advice , Vaccine Availability and 108 call transfer etc

### STATUS TRACKING

Status Tracker to track the status of requests regarding Bed , oxygen .

### BED TRIAGE

The allotment of bed both completed and pending list can be listed .In bed Allotment option the pending listed show the the user can be available to find patient with Spo2 level, O2, RR, PR, RT-PCR, Gov or Pvt and other options and based on the critical level, the user can allot the bed for the patient.

In Dashboard, we can view the number of bed requests, Oxygen request, drug request and other queries made by the public using the war room hotline and also through social media.

The user will be able to see the number of requests arrived from the public for the particular day.

User  able to view the triage status for the patient.

In the Drug requirement, the user can see the request of the patients for drugs that are prescribed by the hospital for the covid – 19

In Syndromic triaging, the user can enter the data manually, for the particular date. This is further used as reference. The user can enter the date and add on the particulars for each of the options available that are, Newly Triaged on Date, On Treatment Including Newly Triaged and volunteers list. In the below the user can keep track of the data that are entered everyday in the tabular manner.

The user can download an excel file for each request that is received. The user can separately download files for a day, week, months or year by using the above given date option or can simply use the search option to download the file. Users can also maintain the files for each category like Bed Request,

Oxygen, Drug and Others for future references.

The Oxygen requirement allows the user to keep track of the request for oxygen raised by the Hospitals. In the oxygen requirement, the user will be able to see 2 sub category – Pending and Completed. In the pending oxygen requirement, the user can see the request that is yet to be completed.

The user can check on the enquiries, vaccination, drug availability related questions in this. The user can look into it and pass it on to the hospitals or operations team to clarify the queries of the public. In Pending, the user can see the query list that are yet to be finished and in the completed, the queries which are finished will be displayed on the screen.

# Covid 19  War Room -  Triaging Patients

- Over 30 doctors work in the Tamil Nadu Covid-19 war room.Triaging is a screening process that determines the severity of a condition and the type of treatment that must be provided to the patient.
- The 104-helpline number receives a lot of calls." People give us basic patient information. In 10 to 15 minutes, we return to the patient to double-check information such as SPO2 levels, location, and CT score. Based on the facts provided, we determine if the patient requires an oxygen bed, home isolation, or an ICU bed. Based on their requirements, we assign cases to the bed allocation team.
- We can define priorities based on triage, such as bed availability, oxygen bed availability, ICU bed availability, and other difficulties that are resolved in real time.
- The war room is constantly buzzing with activity, it is clear that the monitors in the room display a variety of crucial data. The main screen shows the total number of ICU beds, oxygen beds, and non-O2 beds, as well as their occupancy and availability.

## Process of managing over a million applications in a transparent manner

# 10.Universal Health Coverage Application Management (Job Portal)

The most important task is to work with the bed management team to locate available beds and direct patients to the appropriate location. The war room, which only handles Oxygen and ICU beds, monitors bed statuses in real-time across the state.

The Universal Health Coverage (UHC) program has been implemented in Tamil Nadu since 2017 and has been recently integrated with the State's flagship 'Makkalai Thedi Maruthuvam' scheme.

The State's goal of achieving universal health coverage (UHC) necessitates fully operational Health and Wellness Centers (HWCs) that satisfy the Government of  India's criteria, including the placement of MLHPs and Multipurpose Health Worker/Health Inspector Grade II at the Health Sub-Centre level HWC. The primary goal of this project is to

## Application features

The primary goal of this project is to create a web admin interface for UHC's MLHP and MPHW application administration and recruitment process monitoring.

## Application Upload

Add the application Details like Name of the candidates, Father/Husband Name, Date of birth, Age , Date of Form Received , upload the application ,Total Number of pages , Phone Number , Address, job applied for , Document Received mode .

## Application Line List

The Application Line list table is  auto updated  which includes Reference id , Name , DOB Age , phone number , District Name, HUD Name ,Inserted Date ,File , View Documents .  In the View Documents section there are options like View Full application, Certification list , Edit , Re-upload File  and download.

## Application Forward:

Application forward is used to forward the application that includes details like, from date, To date and Search and Automatic Application line list table is generated which includes Reference id job applied for Name , DOB, Phone  Number, District Name HUD Name, Inserted Date, Approval  status and Approval

## Application Received:

It includes the Date wise Application Received Count .

## Recruitment Status Page

The Recruitment status page the application list of tables is displayed .The table includes Reference id , Name , DOB Age , Phone Number , District Name, HUD Name ,Inserted Date, Recruitment  Status .

# Advanced Technology for Enhanced Results

To drive the success of your Human Resource Management by developing software to streamline and ease the recruitment process.

- Every piece of information will be stored digitally
- It will be a simple and quick process to monitor the application
- The entire process can be tracked from beginning to end, ensuring that no scams occur in the interim

**Deliver world-class employee experience. Get operational HR out of the way, and make time for high value work.**

## Recruitment Software built with the perfect development strategy

We create a recruitment portal platform using cutting-edge technologies that is user-friendly, outstanding, and innovative for employees and employers, allowing you to control every area of the recruitment process.

## Applicant Tracking

It helps you streamline your end-to-end hiring process, right from requisition to appointment. We expertly offer to develop an Application Tracking System to reduce your administrative burden.

## Document Process Automation

It simplifies your document process workflow that congestion for your HR team for the large volume of documentation required for compliance and recruiting process.

# 11. ATTENDANCE MANAGEMENT SYSTEM

Attendance Management System is an application that allows you to keep track of your attendance. Attendance that is Geo-tagged and geo-fencing Personalized Shifts, Policies, and Weekly Offs allow you to accurately track employee hours.

Time tracking for employees will also disclose whether or not they are punctual. With attendance management, you may also keep track of how many days off your employees take.

Without real time attendance management, work is challenging and full of compromises. Real time automation of attendance enables smooth operations and improves productivity.

- Attendance capture from varied sources
- Record real-time attendance
- Capture attendance from the portal

## View your own information

View your personal information, such as payslips, personal details, etc

## View your official documents and letters

Any official documents and correspondence can be accessed, downloaded, and printed.

## View company policies and forms

Access, download, and print the most recent policies and paperwork from the company.

## Search for and view employees

Search for and view any employee-related information via the employee directory. The directory shows employee information, such as his/ her designation, reporting manager, email ID, photograph, extension, etc.

**Leave Management**

**Overtime Management**

**Simple Attendance Registration**

## Geo Attendance Features

The Geo-Attendance Module keeps track of staff movement both within and between locations. Employees and managers can both access information, resulting in better information exchange and easier attendance management.

- Enables organizations to capture the attendance of their employees from any location, at any given time.

- Geo-attendance and Geo-fencing features allows managers to track employee location, distance and route traveled.

- Track real time location of all your employees on field or other work sites.

With our latest Geo Mark feature, your employees can record attendance within the pre-defined coordinates set for your office.

Time
Management

Controlled
Accessibility

Real-Time
Reporting

# Attendance
# Processing

## View real-time attendance information

Attendance management system processes attendance on a daily basis based on real-time attendance data. This gives you real-time and daily views of what's happening at an organization level and who's in office and at what time.

## Configure attendance the way you want it

Configure attendance the way you want it

You can configure:

Automatic daily attendance processing

Continuous absence alerts

Event notifications

Attendance regularization workflow

Month-end HR review and finalization facility

Manual override facility

The Real time report will be generated as per the daily basis based on real-time attendance data.

# 12. RBSK

## Rashtriya Bal Swasthya Karyakram

Rashtriya Bal Swasthya Karyakram - The purpose of which is to control the health issues of children and to detect and treat diseases. The main objective of implementing the National Child Health Program (RBSK) scheme is to control the high mortality rate of children, especially newborns in the country. Under the scheme, all children from the newborn to 18 years of the country have to find and treat the defects of 4D inside them. This plan aims to improve the future of the country's children by eliminating such diseases at an early stage. National Health Mission (NHM)

## RBSK has zero cost treatment and medical facilities

Zero Cost Treatment & Medical Facilities at Rashtriya Bal Swasthya Karyakram – The government has decided to reduce the number of infants who die every year due to health issues.

Some issues are permanent, while a large proportion of deaths occur due to lack of medical facilities and lack of access to medical facilities. Many newborns recover from birth while others later catch many diseases. There are also some developmental disabilities. So to improve this condition of children, especially in rural and backward areas, the government has started Rashtriya Bal Swasthya Karyakram which will provide free treatment and other medical facilities to children up to 18 years of age.

## Rashtriya Bal Swasthya Karyakram: Early detection and intervention for a healthier tomorrow

Families will get zero cost medical treatment of their children right from birth.

### For newborns
Facility for screening of newborns in public health centers.

### For children from birth to 6 weeks
To go home and check by Asha Worker.

### For children from 6 weeks to 6 years
Examination at Anganwadi Center by dedicated mobile health teams.

### For children from 6 years to 18 years
Examination by dedicated mobile health teams at government and government aided schools.

# Mechanism for investigation at community and facility level

Child screening under RBSK is at two levels community level and facility level. New birth screening in public health facilities such as PHC / CHC / DH will be facilitated by existing health manpower like medical officers, staff nurses and ANMs, community level screening will be done by Anganwadi centers and mobile health teams in the government. Government aided school



**RASHTRIYA BAL SWASTHYA KARYAKRAM (RBSK)**

**NATIONAL HEALTH MISSION**

## Rashtriya Bal Swasthya Karyakram
### Child Health Screening and Early Intervention Services

**6815 RBSK mobile teams for screening**

| Screening 80 million | Referral 4 million | Management 1 million |
|---|---|---|
| Children screened | Children referred | Children availed tertiary care |

## Screening at Anganwadi Center

- All pre-school children under 6 years of age will be shown at least twice a year by mobile block health teams for deficiencies, illnesses, developmental delays including disability at the Anganwadi center.

- All pre-school children under 6 years of age will be shown at least twice a year by mobile block health teams for deficiencies, illnesses, developmental delays including disability at the Anganwadi center.

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**TNSCHOOL DASHBOARD**

Anbar

**SCHOOL HEALTH PROGRAMME**

- Dashboard
- calendar
- Approval Camp List
- Referred Student List
- Lab Result
- Student List

Student Name : **Shiva S**   Aadhar No : **231278728928**   Date Of Birth : **12/12/2014**   Gender : **Male**

Disability Group : **No**   Mother Name : **Anbarasi**   Father Name : **Mani**   Contact Number : **9488994592,**

Address : **Address**   Pin Code: **600029**

### PHYSICAL DATA

Add

| # | Date | Height | Weight | BMI | Systolic | Diastolic |
|---|---|---|---|---|---|---|
| 1 | 18/03/2020 | 70 | 15 | 23.6 | 12 | 12 |
| 2 | | 123 | 12 | 12 | 12 | 12 |
| 3 | | 12 | 12 | 12 | 12 | 12 |
| 4 | 19/03/2020 | 12 | 12 | 12 | 12 | 12 |

# Screening in Schools – Government and Government Aided

School children between the ages of 6 and 18 will be shown at least one year in local schools by mobile health teams for disabilities, development including adolescent health, diseases, developmental delays.

## Rashtriya Bal Swasthya Karyakram (RBSK)

The Tamil Nadu government has mobilized 770 health teams across 385 rural blocks.

This program is being implemented effectively by 34 District Early Intervention Centers in Tamil Nadu.

## Mobile Health Teams (MHTs)

The unique number will remain the same despite inter-institutional transfer. Patients with pregnancy related complications like gestational hypertension, anemia, eclampsia,and gestational diabetes without structural heart disease will be excluded from the TNPHDR.

# Features

- Advance Tour Planner (Advance Tour Planner)
- Attendance capturing for MHT
- Inventory and asset management
- Accessing the student list based on the visit scheduled and assigned by the school
- Health assessment of children

- Immunisation chart
- Regular issues (Tablets and sanitary pads - Monitoring)
- Screening the children with 4D"S
- Treating the Students
- Referring the student to the DEIC
- Follow up of the student

## Dashboard and Reports
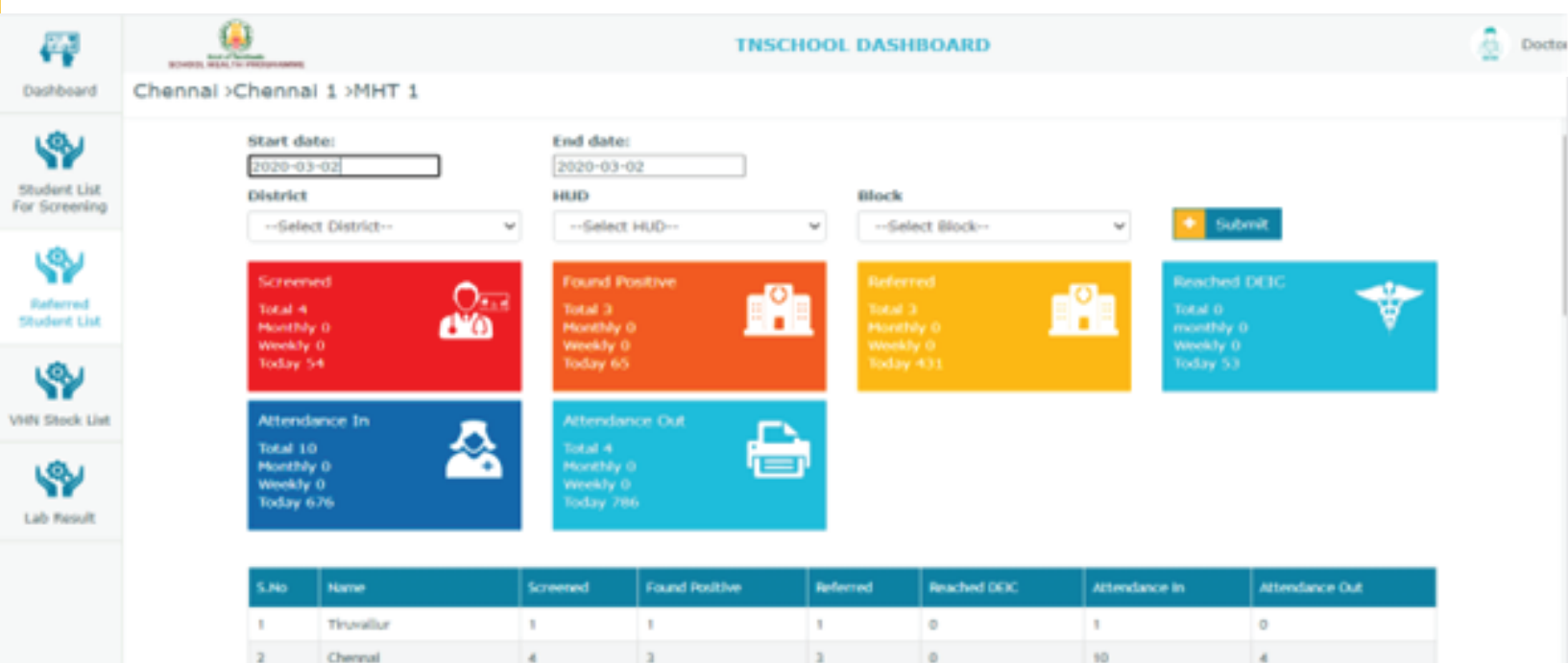


## some features of Rashtriya Bal Swasthya Karyakram (RBSK)

### Comprehensive screening

The program provides comprehensive screening of children from birth up to 18 years of age for common health problems, developmental delays, and disabilities.

### Early detection

The screening is done at an early stage to detect health problems, so that timely intervention can be provided to prevent further complications.

### Standardized protocols

The screening and intervention processes are carried out using standardized protocols and checklists to ensure that all children receive the same quality of care.

### Free treatment

Children identified with health problems are provided with free treatment and follow-up services.

### Integration with other healthcare programs

RBSK is integrated with other healthcare programs such as the National Rural Health Mission (NRHM) and the Integrated Child Development Services (ICDS) to provide comprehensive healthcare services to children.

### Referral services

The program provides referral services to higher-level healthcare facilities for children with severe health problems.

### Community participation

The program involves community participation and awareness campaigns to ensure that all children receive the necessary screening and care.

# 13. Labor MMU Screening Construction  Workers

Labour MMU Screening is a software application used to screen construction workers on a construction site. This application is used to monitor workers' health for their better health.



## APPLICATION FEATURES

### ☑ Login page

Login roles include District employee, MMU employee, State employee, District labour, department employee, and State labour department employee.

### ☑ Masters

In addition to role and allocation of types of employment, a master will be developed forEmployee masters (Active, Inactive, Shifting to Another MMU, Terminated, Done Resignation) (need to highlight the post list),Vehicle asset masters, Device masters, Labor MMU (Active, Inactive) vehicles,Construction site list, Grievances Master (HR Grievances Escalation Master),Lists of medications, diseases, lab tests, and their likely findings (Defined results) list According to identifiers, workers master (construction worker id)

### ☑ ATP Scheduler

District Controllers, the Labor Department, and the DDHS MMU Approval Layer are included in the ATP Scheduler.

### ☑ Attendance flow

Once the location has been visited, the attendance along with the location and a group photo is captured. Once the location has been captured, the time will be noted. The same will be true of the flow of completing the visit. The image has to be captured along with the location in the background where Geo location and Time will be captured and saved.

## ✓ Screening flow

In the screening system, the worker can be registered or recalled from the master by using identifiers from the master line list on the doctor page. When a doctor has been registered, the screening status is displayed. Doctor screening based on the four conditions as well as image capture, if needed, and other notes are required.Besides that, prescriptions with notes to nurses and pharmacists, lab tests sent from the master to the technician, referral to the hospital based on the master of place with filters of district and hospital name, and uploading of lab test results based on identifiers search and closing the open requests with no results to the lab technician, with a document uploaded if necessary to the pharmacist or nurse about drug issues.

## ✓ Drug

This includes the Drug Master, the Drug Received notes, the Stock Maintenance, batch-by- batch expiry and stock notifications, the Drug Issue in FIFO flow when issued to workers, the Report of all the Drugs (escalation to the state and the DDH).

## ✓ ATP Scheduler

Establishing the type of asset (medical equipment, lab reagents, vehicles), the status of the equipment, identifying the equipment, logging the equipment, and identifying the equipment, the checklist and status of the vehicle assets, and the report of all assets (escalation to the state and DHSS).



## ✓ Grievances request

HR grievances to the DDHS and states (tickets open). Clousers with categorization and approval of issues. Maintain a master of grievance categories and types.

## ✓ Reports

This report includes an overview of the population register, an overview of camps conducted by MMU, an overview of referred patients, an overview of patients treated, an overview of screening conditions based on spotted conditions, and an overview of other treatment options.

## ✓ Referral Hospital List

All of the hospitals on the list are included in the referral hospitals.

Every Single Health Entities, Doctor, Lab, Pharmacy, Emergency, Trauma, 108 and Home Health Services (MTM), TNPHR & ABHA are connected. A Single Holistic View is provided for an immediate Quality Treatment.

SoS based alarm by patients. Immediately alerts Emergency Department, 108, Medical Practitioners and Relatives help reaching the needed immediately and provide necessary care, with health data available for access practitioners able to provide quality care.

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