

NATIONAL TUBERCULOSIS INSTITUTE BENGALURU



**Government of India
NATIONAL TUBERCULOSIS INSTITUTE
Ministry of Health and Family Welfare
'Avalon', No.8, Ballari Road, Bengaluru-560 003
INDIA**

**ANNUAL REPORT
2024-25**

**WHO Collaborating Centre
For
Tuberculosis Research and Training**

**ANNUAL REPORT
2024-2025**



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INDIA**

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CONTENTS

PAGE NO.

ABBREVIATIONS

FOREWORD

ORGANOGRAM

1.	HUMAN RESOURCE DEVELOPMENT DIVISION	1
2.	LABORATORY DIVISION	13
3.	EPIDEMIOLOGY AND RESEARCH DIVISION	16
4.	MONITORING AND EVALUATION DIVISION	25
5.	ADVOCACY, COMMUNICATION AND SOCIAL MOBILIZATION DIVISION	28
6.	ADMINISTRATION DIVISION	35
7.	PARTICIPATION IN MEETINGS / PROGRAMMES/ SEMINARS/CONFERENCES / WORKSHOPS/ CME ETC.	41

LIST OF ABBREVIATIONS

ACSM	Advocacy Communication & Social Mobilization
AI	Artificial intelligence
BSc(N)	BSc in Nursing
CBNAAT	Cartridge Based Nucleic Acid Amplification Test
CDSCO	The Central Drug Standards Control Organization
CPWD	Central Public Works Department
CTD	Central Tuberculosis Division
DCGI	Drug Controller General of India
DRTB	Drug Resistance Tuberculosis
DST	Drug Susceptibility Testing
DTC	District Tuberculosis Centre
DTO	District Tuberculosis Officer
ECHO	Extension for Community Healthcare Outcomes
ERD	Epidemiology and Research Division
EQA	External Quality Assurance
FIND	Foundation for Innovative New Diagnostics
FMR	Foundation for Medical Research
GCP	Good Clinical Practices
GeM	Government e-Market
GNM	General Nursing and Midwifery
HRD	Human Resource Development
IEC	Institutional Ethics Committee
ICELT	International Centre of Excellence for Laboratory Training
ICMR	Indian Council of Medical Research
ICT	Immuno chromatographic Test
IRL	Intermediate Reference Laboratory
JSS	Joint Supportive Supervision

LC	Liquid Culture
LIMS	Laboratory Information Management System
LPA	Line Probe Assay
LT	Laboratory Technician
MGIT	Mycobacterial Growth Indicator Tube
MO	Medical Officer
MOTC	Medical Officer TB Control
MOHFW	Ministry of Health and Family Welfare
NABL	National Accreditation Board of Laboratories
NAAT	Nucleic Acid Amplification Test
NIRT	National Institute for Research in Tuberculosis
NORC	National Operation Research Committee
NRL	National Reference Laboratory
NTEP	National Tuberculosis Elimination Programme
NTEG	National Technical Expert group
NTI	National Tuberculosis Institute
NTM	Non Tuberculosis Mycobacterium
OR	Operational Research
OSE	On-Site Evaluation
PMDT	Programmatic Management of Drug Resistant Tuberculosis
POD	Prevention of Disease
RDC	Research Documentation Cell
STDC	State Tuberculosis Training and Demonstration Center
STLS	Senior Tuberculosis Laboratory Supervisor
STO	State Tuberculosis Officer
TB	Tuberculosis
ToT	Training of Trainer
TU	Tuberculosis Unit
WGS	Whole genome sequencing
WHO	World Health Organization

Prof (Dr) Urvashi B Singh
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(TB) and Director NTI



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Foreword

I am proud to present the Annual Report of the National Tuberculosis Institute (NTI) for the year 2024–25. During the period of report NTI has strengthened its role as the technical arm of the Central TB Division (CTD).

A core activity of the institute is to provide a trained body of manpower to efficiently roll out the NTEP (National Tuberculosis Elimination Programme). Capacity building activities for programme managers, laboratory personnel, and field staff in all thematic areas of TB elimination were scaled up ensuring that the workforce of NTEP personnel across states and districts is equipped with updated skills and knowledge. A workshop of experts to frame guidelines for the management of extrapulmonary tuberculosis in NTEP was conducted at NTI under the leadership of CTD. Also noteworthy were the two workshops- one for laboratory based and the other on Operations Research - undertaken in the capacity of the institute being a WHO collaborating centre.

Our NABL-accredited National Reference Laboratory continued to provide quality-assured diagnostic support, external quality assurance services, and innovations in molecular testing for tuberculosis. In addition to imparting training to laboratory personnel, the laboratory division plays an important role in NTEP certification of laboratories located at the sub-national levels.

Operation research being another important mandate witnessed the participation of NTI in the multicentric vaccine trial study and the institute also was a part of the district level sentinel survey for the estimation of tuberculosis prevalence in two districts of Karnataka.

The ACSM division which houses a scientific gallery is involved in sensitizing paramedical and nursing students in tuberculosis and NTEP. The officers of the institute actively participated in the supportive supervision and monitoring of 31 campaign districts of Karnataka as a part of India's 100 days intensified TB elimination campaign- a concentrated national drive launched by the

hon'ble Union minister for Health and Family Welfare, Shri Jagat Prakash Nadda on December 7, 2024.

The achievements of the institute were possible due to the dedication and collaborative spirit of NTI's officials and guidance from the Central TB Division. The road ahead for NTI is to augment the ongoing effort in the capacity building of human resources, increase its contribution in programme monitoring and enhance the scope of activities in areas of research and laboratory.

The institute being an integral part of the mission of the NTEP to achieve a TB-free India is responding well to the clarion call of World TB Day 2025 to eliminate the scourge of TB – “Yes! We Can End TB: Commit, Invest, Deliver.”

Dr Urvashi B Singh
DDG(TB) and Director NTI

**Dr. Preetish S
Vaidyanathan
Officiating Officer for
Director NTI**



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Foreword

I am pleased to present the Annual Report of the National Tuberculosis Institute (NTI), Bengaluru, for 2024–2025. This report highlights the Institute's major activities and new initiatives during the year and presents a synthesis of both administrative and technical achievements.

NTI functions as the technical arm of the Central TB Division (CTD) and is designated as a World Health Organization (WHO) Collaborating Centre. The Institute's technical activities include strengthening human resource capacity for effective implementation of the National Tuberculosis Elimination Programme (NTEP), conducting operational research to enhance service delivery under NTEP, and supporting programme supervision and monitoring. The NTI Laboratory, accredited by NABL and serving as a National Reference Laboratory (NRL), oversees quality assurance for sputum smear microscopy, molecular diagnostics—Nucleic Acid Amplification Tests (NAAT)—and drug susceptibility/resistance testing across public and private laboratory networks under NTEP.

NTI is at the forefront of training health personnel engaged in NTEP. The Institute's core mandate is to build the capacity of programme managers and paramedical staff, equipping them with the knowledge and skills required for NTEP. During the reporting period, the following trainings were conducted: "NTEP Modular Training for Programme Managers," "Workshop on Programme Monitoring in NTEP for State Programme Managers," "National-Level Training on Guidelines for PMTPT in India," "Training for Postgraduate Students," "Training on Preventive Maintenance and Minor Repairs of Binocular Microscopes," "Training in Molecular Methods—

LPA and MGIT for Culture and DST,” and “Training on External Quality Assurance (EQA) of Sputum Smear Microscopy.” As a WHO Collaborating Centre, NTI conducted two activities during the period: a “Capacity-Building Workshop for Establishing EQA for Cartridge-Based Nucleic Acid Amplification Tests (CBNAAT) using *M. tuberculosis* Dried Tube Specimens” for participants from Indonesia, and the “Workshop on Operational Research (SORT IT—Modules 1 and 2)”.

The NABL-accredited NTI laboratory supervises and monitors the quality of the sputum smear microscopy network across three states—Karnataka, Maharashtra, and Rajasthan—and provides diagnostic support to three districts in Karnataka. The laboratory trains personnel and strengthens the capacity of Intermediate Reference Laboratory (IRL) staff in diagnosing drug-susceptible and drug-resistant TB (DR-TB). Additionally, it conducts the National NAAT EQA programme to ensure quality across all NTEP-certified/approved NAAT sites nationwide. The NRL also plays a key role in certifying state-level IRLs, medical colleges, and private laboratories for culture and drug susceptibility testing for DR-TB.

Operational research remains a core function of the Institute. The status of ongoing and planned studies is summarized in this report. During the reporting period, NTI completed a Phase III randomized, double-blind, three-arm, placebo-controlled trial evaluating the safety and efficacy of two vaccines—VPM1002 and Immuvac (Mw)—in preventing tuberculosis among healthy household contacts of newly diagnosed sputum-positive pulmonary TB patients. The Institute also participated in the CTD-commissioned district-level sentinel survey to estimate TB prevalence in two identified districts of Karnataka.

The ACSM Division plays a vital role in sensitizing students in nursing, paramedical, life sciences, and medical disciplines to TB and NTEP. During the year, 1,574 students from paramedical and life sciences backgrounds were sensitized at NTI.

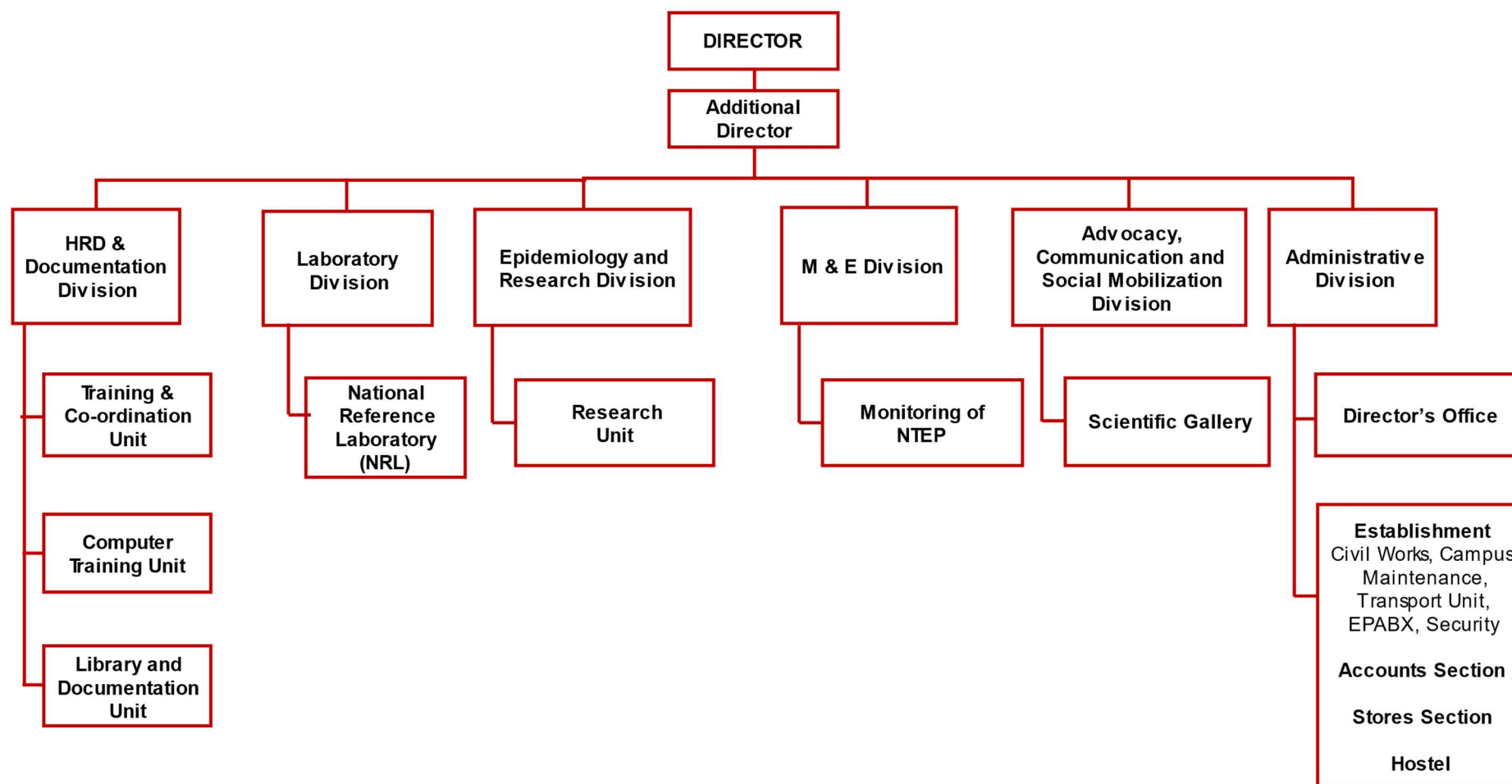
The Monitoring and Evaluation Unit supported CTD in finalizing three standardized formats for supervision and monitoring of State TB Training and Demonstration Centres (STDCs): the STDC Annual Plan, the STDC Quarterly Report (STDC to NTI), and the STDC Biannual Report (NTI to CTD). India’s 100-Day Intensified TB Elimination Campaign, launched by the Hon’ble Union Minister for Health and Family Welfare, Shri Jagat Prakash Nadda, on 7 December 2024, was a focused national effort to accelerate progress toward NTEP targets, particularly in high-burden and underperforming districts. NTI officers actively provided supportive supervision and monitored implementation across 31 campaign districts in Karnataka to ensure systematic execution and progress tracking statewide.

This report also briefly presents the Institute's organizational structure and staffing position. It outlines the role of the Administrative Division and highlights the participation of officers and technical staff in meetings, training programmes, seminars, conferences, workshops, and continuing medical education during the year.

Sustained cooperation and dedication from all members of the NTI family are gratefully acknowledged. Continued guidance, support, and encouragement from the Ministry of Health and Family Welfare, Government of India, and the Central TB Division are also sincerely appreciated.

Dr. Preetish S Vaidyanathan
Officiating Officer for Director,
NTI

ORGANOGRAM



1. Human Resource Development & Documentation

One of the salient functions of the Institute is to support human resource development and strengthen the capacity of programme managers through skill development activities relevant to National TB Elimination Programme (NTEP).

The three units of the Division are;

1. Training and Coordination Unit
2. Computer Training Unit
3. Library & Documentation Unit

A. Training and Coordination Unit

The objective of the NTEP training programmes is to ensure that programme managers, teachers of Medical Colleges, Medical Officers and Paramedical Staff are equipped with adequate knowledge and skill set required to implement TB control activities which includes quality assured diagnosis of TB, management of drug sensitive and drug resistant TB, data management and forging partnerships with all sectors involved in TB control activities.

Training activities at NTI pertaining to NTEP, are coordinated with the HRD unit at Central Tuberculosis Division (CTD). The tentative plan for training activities to be held at NTI is prepared for the ensuing year and sent to CTD, which in turn communicates the same to all State TB Officers. This ensures a staggered nomination of eligible candidates in appropriate batch sizes and allows suitable time to ensure relieving of participants from their offices at attending the training programmes.

The Training Unit works synchronously with the Computer Training Unit, Hostel, Stores and Transport Units of the Institute to ensure smooth organization of training activities. Training courses and workshops with respect to many aspects of TB control are conducted

to accommodate the ever-increasing requirement of trained personnel.

The details of the training programme conducted during the reporting year (2024-25) are appended below:

1. NTEP Modular Training

Sl. No.	Category of Personnel	From	To	No. of participants
1	DTO's from the state of Telangana and two participants from NTI (Deputy Director (ISS) & Junior Statistical Officer)	14-10-2024	26-10-2024	5
2	NTEP Medical Officer, DRTB Senior Medical Officer, DRTB SMO / MOTC, State TB – HIV Coordinator, Civil Assistant Surgeon, State DRTB Coordinator from the state of Andhra Pradesh	09-12-2024	21-12-2024	10

2. Workshop on Programme Monitoring in NTEP for State Programme Managers

Sl. No.	Category of Personnel	From	To	No. of participants
1	STDC Director, Deputy STO, Epidemiologist, Specialist Gr.I (Microbiology), Senior Medical Officer, Medical Officer, SPM Coordination, District Programme Coordinator, Microbiologist, State Data Analyst, Statistical Assistant, Data Entry Operator, Statistical Clerk from different states	10-06-2024	14-06-2024	22

3. National Level Training in guidelines for PMTPT in India – 2021

Sl. No.	Category of Personnel	From	To	No. of participants
1	State TB Officer, Director STDC, State NTEP consultant, Joint Director, TB –	13-05-2024	15-05-2024	19
2	HIV coordinator, Junior Specialist, Medical Officer, MS- STDC, MD Pulmonary Medicine, MO-STC, Dist. TB Officers, Dy. DTO, Medical Officer, MOTC, from different states.	05-09-2024	09-09-2024	27

4. Training for Post-graduate Students

Sl. No.	Category of Personnel	From	To	No. of participants
1	Post Graduate medical students of Community medicine, Pulmonary	19-08-2024	23-08-2024	37
2	medicine and respiratory medicine from the state of Karnataka and Kerala	17-02-2025	21-02-2025	30

5. AFMC Training

Sl. No.	Category of Personnel	From	To	No. of participants
1	One Day Sensitization Programme on NTEP for the Post – Graduate Trainee Medical Officers of AFMC – Pune	23-12-2024		10

6. Capacity Building Workshop for establishing External Quality assurance (EQA) for Cartridge Based Nucleic Acid Amplification (CBNAAT) by using M. TB Dried tube specimen (WHOCC Activity)

Sl. No.	Category of Personnel	From	To	No. of participants
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1	Medical Laboratory Technologist, Technical Officer Laboratory, Laboratory Advisor, Clinical Microbiologist/ Head of TB Lab (NRL TB) Lecturer Staff/ PIC Lab TBC, Administrator in Public Health Laboratory, Senior Diagnostic Network Advisor, Focal Point Laboratory NTP of Indonesia	01-07-2024	12-07-2024	9
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7. Workshop on Operational Research (SORT IT – Module 1 & 2) WHOCC activity

Sl. No.	Category of Personnel	From	To	No. of participants
1	WHO – Consultant, DTO, Assoc.Prof & HoD(I/c), TMC, Deputy Director, STO, Consultant – WHO, Deputy Director, COR, The Union, Professor, Operational Research Fellow, COR, The Union, Associate Professor, Director, COR, The Union	20-01-2025	01-02-2025	21

8. Training on Administrative Aspects for officer's and officials of NTI

Sl. No.	Category of Personnel	From	To	No. of participants
1	Officers and staff of NTI, Bengaluru	27-05-2024	31-05-2024	26

9. Consultation Workshop for finalization of the training material on Management of Extra pulmonary TB under NTEP

Sl. No.	Category of Personnel	From	To	No. of participants
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1	Experts from different states of India, including DDG(TB) and faculty from CTD & NTI were involved physically & virtually in the workshop	27-08-2024	31-08-2024	40
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10. Training on Preventive Maintenance and Minor Repairs of Binocular Microscope

Sl. No.	Category of Personnel	From	To	No. of participants
1	STLS and Laboratory technicians from different state and 2 participants were from NTI Bengaluru, Karnataka	14-05-2024	17-05-2024	9
2		07-10-2024	09-10-2024	12

11. Training on EQA of Sputum Smear Microscopy

Sl. No.	Category of Personnel	From	To	No. of participants
1	EQA Microbiologist, Senior TB Lab Supervisor, Technical Officer, Sr. Lab Technician, Laboratory Technician and Jr. Laboratory Technician from different states	27-05-2024	31-05-2024	14

12. Training in Molecular Methods – LPA

Sl. No.	Category of Personnel	From	To	No. of participants
1	Addl. Prof., Associate Prof., Tutor, Bacteriologist, Laboratory Scientific Officer, Technical Officer, Microbiologists & Sr. Laboratory technicians, Laboratory technicians from different states	01-04-2024	05-04-2024	4
2		05-08-2024	09-08-2024	8
3		04-11-2024	08-11-2024	7
4		18-11-2024	22-11-2024	5
5		03-02-2025	07-02-2025	8

13. MGIT for Culture & DST

Sl. No.	Category of Personnel	From	To	No. of participants
1	Prof.& Lab. Director, EQA	09-09-2024	13-09-2024	13
2	Microbiologist, Consultant	02-12-2024	06-12-2024	5
3	Microbiologist, Microbiologists,	06-01-2025	10-01-2025	5
4	Sr.Laboratory technicians, Laboratory technicians from different states	03-03-2025	07-03-2025	10

NTEP Modular Training



A large group of people, including students and faculty, posing for a group photo in a modern, well-lit room with a grid ceiling and large windows. Some individuals are seated at a long table in the foreground, while others stand behind them.

Training on LC & DST Testing for 1st & 2nd line anti TB drugs (MGIT 960)



NTEP Training -Postgraduates



Training in Molecular Methods – LPA



B. Computer Training Unit

The Computer Training Unit supports the following major areas: -

- Facilitate in organizing need-based training with relevance to program and customized application related trainings
- The support Information and Communication Technology (ICT) Initiatives in the context of the Programme.
- The support Data Management and Statistical Analysis of research studies and other MIS.
- Caters to the need of maintenance of website / upkeep / up-gradation of IT infrastructure of the Institute.
- Video Conferencing related activities (both hosting & joining the VC) during the year were : Post Truenat EQA desk review of Assam ,3- IRL review meeting for Rajasthan, Karnataka and Maharashtra, Sensitization for all the NRL's and IRL's , PMU Cloud-NGC to discuss on

hosting of NTI website on NGC platform and 19 -CBNAAT EQA
Sensitization across the country.

NTI WEBSITE SUPPORT SERVICES: -

- Application server configuration and maintenance of website.
- Domain renewal of NTI Websites.
- Maintaining E-mail services at NTI.
- Assisting with periodic updation of NTI Website content as per requirements.
- Maintaining and updating Department-wise Telephone directory on the NTI Website.
- Uploading Notifications for recruitments at NTI on the NTI Website.

Other IT Support Services:

Configuration of Broadband internet with the help of Internet service providers.

- Periodic licensing server configuration & maintenance of software.
- Maintenance of access to subscribed Journals.
- Co-ordinated with the Stores Unit, NTI for the installation of CCTV Cameras in the office.
- Monitoring of recordings of various CCTV Cameras in the institute.
- Periodic maintenance of IT Equipment of the institute.
- Renewal of Internal Mail Server services.
- The Internal Mail server is maintained periodically. The service reports and log details are collected every day and modifications are done to the network as and when required.
- Periodic maintenance of Aadhaar Enabled Biometric Attendance System(AEBAS) undertaken.
- Periodic licensing server configuration such as Email Server, Proxy Server, Firewall, Anti-Virus protection etc.
- Coordinated with MTNL Cloud Attack intelligence network to blacklist and block suspicious IP addresses.
- Handling matters pertaining to AMC of computers / UPS and issues pertaining to server configuration / Internet services / mailing services.
- Monitoring services provided by 'Techno Lifts' for regular maintenance.

Other Support Services:

- Internal shifting, configuration and stock updating of computers.
- Handled classes on NI-KSHAY.
- Assisted the Training Unit in conducting various trainings like Quality Improvement in TB Care & Health System Resilience for TB Managers, training in NI-KSHAY, Training in Operational Research etc.
- Assisted The Union and CTD in conducting training on NTEP Monitoring for TB managers from various states.
- Coordinated with FIND, AKSHARA and KPMG to facilitate maintenance of LIMS.
- Interaction with developer team to update the features of LIMS.
- Upkeep and configuration of Video Conference Unit to support all VC interactions like ECHO clinic.

C. Library and Documentation Unit

- Collection and Maintenance of Core periodicals on TB & respiratory diseases, documents on TB research, reports, proceedings, souvenirs, WHO unpublished documents, selected papers.
- Coordinating with CTU in digitization of important research studies and hosting the same on the internet/intranet.
- Provide the information needs of the faculty, staff of the Institute besides Medical and Para-medical trainees and delegates/visitors from medical fraternity.
- Co-ordinate in periodic updating of the NTI website, both internet and intranet.

- Co-ordinate the publication activities of the Institute. The major responsibilities of this unit are to oversee the regularity of publication of NTI Annual reports and other specialized publications.

Activities undertaken during the year 2024-2025:

- Published Annual report and updated in NTI website.
- Received and displayed scientific Journals, Swamy's News & Swamy's Handbook in the library during the year 2024-2025.
- Ms. Kirti Tyagi, PhD Scholar at CSIR-NIScPR, New Delhi, visited and utilized NTI Library on 24th and 25th June 2024 for her PhD research work.
- Mr. Priyanka Choudhary, a Research student on MPhil programme in Development studies at the University of Oxford, visited NTI Library from 28th to 30th August 2024, to utilize various documents, reports and research studies available, for her Master's thesis.
- Co-ordinated with Director's office, for nomination of NTI officials for participation in 79th NATCON, organized by Jain Chest Care Centre, Mahatma Gandhi Medical College and Rajasthan State TB Association under the aegis of Tuberculosis Association of India at Jaipur from 18th to 20th October 2024.
- Renewal of subscription of Swamy's news and Swamy's Hand book done for the year 2025.
- Inventories made in respective registers regarding journals/periodicals and books received.

2. LABORATORY DIVISION

The laboratory has been designated as one of the National Reference Laboratory in the country and also is NABL accredited. The NTI laboratory participates in EQA program with WHO Supra National Reference Laboratory (SNRL) Prince Leopold Institute of Tropical Medicine Antwerp, Belgium and has successfully passed all rounds of proficiency testing.

The NTI laboratory provides diagnostic support to 3 NTEP districts of Karnataka. NRL supervises and monitors the quality of the sputum smear microscopy, culture and drug susceptibility testing services in the network of laboratories in the three states allocated viz, Karnataka, Maharashtra and Rajasthan. NTI-NRL is responsible for assessing the quality of all NTEP certified/approved NAAT sites all over the country. NTI lab supports the research studies under the program.

NRL is also responsible for accrediting state Level laboratories i.e., the IRLs, Medical Colleges and other private laboratories for Culture and Drug Susceptibility Testing for detection of Drug Resistant Tuberculosis (DR-TB) and also supporting State Level Drug Resistance Surveillance (DRS) and PMDT activities.

Besides these activities, laboratory division coordinates with training unit in conducting laboratory related trainings for laboratory personnel Training on Preventive Maintenance and Minor Repairs of Binocular Microscope, Training in Molecular Methods – LPA, MGIT for Culture & DST, Training on External Quality Assurance (EQA) of Sputum Smear Microscopy and Capacity Building Workshop for establishing EQA for Cartridge Based Nucleic Acid Amplification (CBNAAT) by using M.TB Dried tube specimen for the participants of Indonesia were the trainings conducted during the year of reporting. The details of the laboratory trainings are already mentioned in training activities

Specimens processed at NTI laboratory during the period April 2024 to March

2025

Registration		
Total Specimens registered from Bangalore districts		8492
Number of Rejected samples		94
Tests Carried out		
Number of Microscopy done		8323
Total No. of specimens subjected for decontamination		8398
Total number of specimens subjected to CBNAAT	CBNAAT	1017
	Truenat	1231
Total no. of Line Probe Assay performed for First Line Drugs		6346
Total no. of Line Probe Assay performed for second Line Drugs		892
Total number of specimens put up for primary inoculation in MGIT		565
Total number of specimens subjected for ICT (identification test)		773
Total number of drug susceptibility test performed by MGIT		565

Activities of NRL during the period April 2024 to March 2025

Sl No.	Particulars	Dates
1.	36 sessions of Post NAAT EQA Desk review of Truenat labs for all states and Union Territories, Truenat LTs, STLS, IRL Microbiologists.	01-02-2024 to 31-05-2024
2.	Annual NRL EQA OSE Visit to STDC Pune	22-04-2024 to 26-04-2024
3.	Onsite Training on LPA and LC-DST at STDC Nagpur	06-05-2024 to 10-05-2024
4.	Field visit to NRL NTI by LFA to review TB Labs support activities undertaken by FIND India Under the Global Fund grant	29-07-2024 to 30-07-2024

5.	Need Assessment committee meeting for procuring Truenat machines at Arogya Soudha Bangalore	07-08-2024
6.	Technical supportive and supervisory visit to Mumbai C&DST Labs at SION Hospital, GTB Hospital, Katurba Hospital, KEM Hospital and JJ Hospital	13-08-2024 to 14-08-2024
7.	Training on EQA of TB Microscopy and NAAT for Health inspectors of Karnataka State at STDC Karnataka	21-08-2024
8.	Truenat Training for LTs and STLS of Karnataka Truenat sites at STDC Karnataka	19-08-2024 to 30-08-2024
9.	Annual NRL EQA OSE Visit to STDC Karnataka, KIMS Hubli, RIMS Raichur	04-11-2024 to 08-11-2024
10.	Sensitization Program to all IRLs for initiating NAAT EQA Round 2024	22-11-2024
11.	Annual NRL EQA OSE Visit to STDC Nagpur	02-12-2024 to 06-12-2024
12.	Virtual CBNAAT EQA Sensitisation program-2024:	
i.	Himachal Pradesh	03-01-2025
ii.	Jammu, Kashmir and Ladakh	07-01-2025
iii.	AIIMS Delhi, NDTC Delhi, Patiala, Chandigarh, Patna.	22-01-2025
iv.	Hyderabad	24-01-2025
v.	Orissa	27-01-2025
vi.	Vishakapattanam	28-01-2025
vii.	Manipur	30-01-2025
viii.	Arunachal Pradesh	31-01-2025
ix.	Gujarat, Daman & Diu	04-02-2025
x.	West Bengal	07-02-2025
xi.	Haryana,Bihar	10-02-2025
xii.	Assam,Meghalaya,Tripura	11-02-2025
xiii.	Kerala, Lakshadeep Madhya Pradesh (Bhopal and Indore)	12-02-2025
xiv.	Uttarakhand	18-02-2025
xv.	Chattisgarh	21-02-2025
xvi.	Uttar Pradesh	28-03-2025

3. EPIDEMIOLOGY AND RESEARCH DIVISION

The Epidemiology and Research Division has played a pivotal role in the country's Tuberculosis Control Program since the institute's inception in 1959. The multitude of evidence generated through epidemiological and operational research led to the formulation of the National TB Control Programme (NTP) and, thereafter, the Revised National TB Control Programme (RNTCP).

During the RNTCP era, the division conducted surveillance through two rounds of Annual Risk of TB Infection (ARTI) surveys in the country, state-specific ARTI surveys and Prevalence of disease survey. Other significant research studies included estimating missing cases through capture-recapture studies and mathematical modelling for calculation of Prevalence and trends of TB disease. In addition, mentorship and technical support were provided to various state and district programme managers, and other Organizations/Institutions in conducting epidemiology and operational research studies and disseminating the findings for policy/programme advocacy.

Research on TB care cascade like Implementation of New Integrated Algorithm for Diagnosis of DR-TB, Knowledge and Practice among clinicians in management of EPTB in tertiary care settings, and Regulatory Clinical trial involving a new Vaccine Candidate for the prevention of TB disease (VPM1002) was aimed at scaling up programme activities targeted towards TB elimination under National TB Elimination Programme (NTEP).

The Institute has also contributed to the National Tuberculosis Prevalence Survey in the country, conducted from 2019 to 2021, as one of the nodal institutes for the survey in Karnataka. As a follow-up to this prevalence survey, the Government of India commissioned a District Level Sentinel Surveillance to update the estimated TB prevalence, assigning implementation responsibilities to ICMR-NIRT Chennai. NTI is currently engaged to conduct this survey in two districts of Karnataka.

Major functions of Epidemiology & Research Division are as under: -

- A. To conduct epidemiological, operational and implementation research in TB, including preparing generic protocols, implementing, monitoring & supervising, data management, analysis and report writing.

- B. To Provide Technical and Operational support to other Organizations /Institutions in the country in conducting TB Epidemiology and operational research studies.
- C. To provide mentorship and training in the operational, implementation and epidemiological research on TB under the sponsorship of either CTD, Union or the State.
- D. To undertake mathematical modelling for forecasting TB burden and programme performance based on the implementation of the existing and proposed new strategies under NTEP.
- E. To provide technical inputs for the development of training modules & guidelines, for policy development in monitoring & supervision and facilitating modular training and sensitization.
- F. Pioneered a multi-centric national-level regulatory Clinical Trial; A Phase III Double-blinded Randomized Control Vaccine Trial for prevention of TB disease in collaboration with ICMR.

Activities for the period 2024-2025

A. Research Studies:

1. “DLSS: Sentinel Surveillance for tuberculosis burden in India 2022-2024” under the Project Strengthening the monitoring of Tuberculosis Elimination in India - The final draft of DLSS received from NIRT, Chennai.

Status: Following activities were carried out

Technical Activities:

- Sensitization programme for newly recruited DLSS contractual staff on Protocol and SOP development for smooth conduct of the field activities was conducted in the Silver Jubilee Hall from 15th April to 19th April 2024 by Facilitators from ERD.
- The final draft of DLSS was received from NIRT, Chennai.
- The Technical Project Staff attended Training at NIRT between 14th to 18th August 2024. This training covered the following aspects:
 - a) Basics of TB diagnosis & Treatment and about NTEP

- b) Evolution of TB programme in India
- c) DLSS Study Protocol
- d) CEB Maps
- e) Pre-survey visit
- f) Cy-TB skin test
- g) Orientation of Mobile X-ray
- h) DLSS Application software and IT
- i) Enumeration of Household & Enrollment of participants
- j) Anthropometry
- k) Interview
- l) Sputum Expectoration Techniques
- m) Verbal autopsy.

DLSS staff were trained on Survey modalities, and Mock practice and role-play were carried out at NTI between 19th and 20th November 2024, by ERD and ICMR-NIRT Officials to facilitate the successful conduct of the pilot survey.

A pilot survey was conducted between 21st and 22nd November 2024 in Sadahalli Village, Bengaluru Rural District, in collaboration with ICMR-NIRT officials for a Pre-Survey Assessment of gaps and preparedness.

- The NAAT machine fitted in the Mobile vehicle was calibrated and standardized by performing tests on sputum samples by the laboratory division, and a report on its functionality was provided.
- Project Staff attended Lab sensitization on CBNAAT Functioning and Processing of samples on 27th Nov 2024.

Operational Activities

- Technicians inspected and submitted a Snag report for the mobile X-ray unit and the Diesel Generator. Based on the Snag report submitted by the technician, belt of the engine / Generator attached to the trailer was replaced.
- The Technician from Konica Minolta Healthcare Pvt. Ltd serviced the HQ-Panel (A6C5-152452) and Dell Laptop (H6RDY63). As per his report, Laptops are in working condition and Software updated. The X-ray machine PRO RAD ATLAS

(A80/C18/016) is not working condition as some error occurred during the CXR image Capturing, due to which the X-ray film was not generated.

- Mobile X-ray Unit servicing and repairing was undertaken between 18th and 19th July 2024, rectifying all snags by Prognosys Medical System Pvt Ltd, Bengaluru to make the unit fully functional prior to the initiation of survey.
- Mr. Karthik Raja from NIRT, Chennai, visited NTI to configure the IT equipment to be used for the DLSS survey on 23rd and 24th July 2024.
- Mobile X-ray Unit Bus (TN-01-BH-7988) servicing and repairing undertaken for rectifying all snags in the 3rd week of August 2024 to ensure road worthiness of the Bus prior to initiation of survey
- Dr. Uma Shankar S, Divisional Head, Mr. Joydev Gupta, Site Coordinator and Sowmya P, Project Health Assistant, visited Chikkamagaluru from 30th Sept to 1st Oct 2024 for DLSS Pre Assessment in the District. The survey clusters, namely Jodilingadahalli, Ward No. 34, Addagadde, were visited by the team. The team conducted a situational analysis to assess the source for Power Supply to the Mobile Van, Accommodation, sputum collection centres, demographic factors, ideal place for camp set up and logistic requirements as an integral part of the Field Organization.
- On 1st October, 2024, a meeting was conducted in the office of the DTO wherein all concerned NTEP staff participated and were apprised on the modalities of the DLSS Project and field activities to be undertaken in their clusters for the Project.
- A consignment for DLSS -TB project containing MGIT kit and tubes (6000) and Accu-Check Active 2x50 Test Strips were supplied to NTI.
- The cluster planning reports with common challenges to be encountered as observed during the Pre-Assessment Survey visit to Chikkamagaluru and Chikkaballapura was prepared for ease of field work.
- Updated PID cards received from NIRT on Dec 4th for initiating the Project.
- The DLSS Team Members attended zoom meeting on Awareness of sexual Harassment of Women at Workplace, conducted by DG ICMR on 11th Dec 2024.

HR Activities

- The term of Engagement for Karnataka DLSS Project Staff (Both Contractual and on Daily wage basis) was extended by NIRT, Chennai to initiate the cluster activities in Chikkamagaluru.
 - The DLSS Team Members attended zoom meeting on Awareness Sexual Harassment of Women at Workplace conducted by DG ICMR on 11th Dec 2024
2. Phase III, Randomized, Double-blind, three arm Placebo controlled Trial to Evaluate the Efficacy and Safety of two vaccines VPM1002 and Immuvac (Mw) in Preventing Tuberculosis (TB) in Healthy Household Contacts of Newly Diagnosed Sputum Positive Pulmonary TB Patients. - Meeting with ICMR hqrs. on 25-10-24 for discussion & finalization modalities for archival of vaccine trial documents and the closure activities.
- Divisional Head visited the Vaccine trial sub-site in NTI campus on day-to-day basis during the month.
 - Meeting with ICMR HQrs. on 25-10-24 for discussion & finalization modalities for archival of vaccine trial documents
 - Electronic Data Capture queries raised by Sponsors were addressed
 - Scanned copy of X ray and Reports of participants uploaded in KOBO Tool Software
 - NTI –IEC meeting held on 25th Feb 2025. The POD Vaccine Trial Final Audit reports, close out reports, Archival of digital and Physical Records and the Trial Termination letter were submitted to the Chairman
 - As sought by PI, the IEC has issued a NOC for closure of the POD Vaccine Trial
4. Model building and analysis in advanced stage in the Project titled 'To estimate the additional (besides TPT and Nutritional supplementation) impact on incidence rate of Tuberculosis in Karnataka by 2032 by addressing other key risk factors – screening & treatment for diabetes and screening for tobacco and

alcohol abuse among household contacts followed by counselling and linkage to cessation therapy centres’.

A model-based approach’. Model and analysis of the Project titled ‘Optimal Intervention Strategies and Cost Effectiveness Analysis study of Tuberculosis with reference to TPT, Malnutrition and Diabetes Management’ was reviewed and rejected based on negative comments by one out of three Reviewers. Submitted for publication in a different Journal

B. Other technical activities:

- Divisional Head provided technical inputs for refining the manuscript of the Project titled **‘Optimal Intervention Strategies and Cost effectiveness Analysis study of Tuberculosis with reference to TPT, Malnutrition and Diabetes Management’**.

INSTITUTIONAL ETHICS COMMITTEE (NTI – IEC)

The NTI-IEC is a standing ethics committee of the Institution, functioning independently. The committee is registered under the licencing authority Central Drugs Standard Control Organisation (CDSCO). The membership of NTI-IEC includes individuals with varying backgrounds and with compliance to NDCT Rule 2019. The committee ensures that the research proposals received for ethical clearance by the NTI-IEC:

- ✓ Are sound in design, have statistical validity and are conducted according to the ICMR National Ethical Guidelines for Biomedical and Health Research Involving Human Participants and International Conference on Harmonization/Good Clinical Practice guidelines.
- ✓ Do not compromise rights, safety and benefits of the patients/study participants.
- ✓ Are conducted under the supervision of trained Medical/Bio-medical persons with the required expertise.
- ✓ Include solely, patients or participants who have given voluntary and informed consent.
- ✓ It may be ensured that no research project shall be/can be started unless Ethics Clearance/Approval is obtained and that no retrospective/post facto Ethics

Clearance/Approval can be provided to research projects which were neither submitted nor vetted by the Institutional Ethics Committee.

- To review and ensure equitable recruitment of subjects in the study

During the period under report, the 30th NTI-IEC meeting was held in the Institute on 25th February, 2025 under the Chairmanship of Dr. Srigiri S Revadi.

- Brief presentation on 12 research protocols submitted for ethical clearance were made by the study Investigator/s and ethical issues pertaining to these protocols were discussed in detail. Progress of previously approved protocols was also reviewed by the NTI-IEC committee.
- All the 12 research protocols presented in the meeting were approved by the Chairman and committee members of NTI-IEC.

RESEARCH DOCUMENTATION CELL (RDC)

The Research Documentation cell is carrying out the responsibility to digitize and upload the published TB research in Indian context as a nodal center of NTI. The uploaded research articles are available in the research documentation portal www.tbresearch.ntiindia.org.in.

The portal includes the published TB research from the following institutions/organization:

- Indian Institute of Science (IISc), Bangalore
- Institute of Bioinformatics, Bangalore
- Mahatma Gandhi Institute of Medical Sciences (MGIMS), Wardha
- National Institute for Research in Tribal Health (ICMR), Jabalpur
- National Institute for Research in Tuberculosis (NIRT), Chennai
- National Institute of Tuberculosis and Respiratory Diseases (LRS), New Delhi
- National JALMA Institute of Leprosy and other Mycobacterial Diseases, Agra
- National Operations Research Committee, Central TB Division, Govt. of India
- National Task Force, Zonal Task Force & State Task Force of Medical Colleges
- National Tuberculosis Institute (NTI), Bangalore

- New Delhi TB Centre (NDTBC), New Delhi
- State Tuberculosis Centre's.
- Tuberculosis Association of India (TAI)

The following activities were undertaken by the Research Documentation Cell during April 2024 to March 2025:

(A) Research Documentation Cell:

- Web Administration of TB research portal www.tbresearch.ntiindia.org.in
- Correspondence with all the participating nodal centers.
- Processed access request to the documentation portal as & when requested.

(B) Institutional Ethics Committee (NTI - IEC)

- Organization of 30th NTI IEC meeting held on 25/02/2025 at NTI. Provided support in active organizing, preparation of minutes of the meeting and issue of ethical clearance certificates for the research protocols ethically approved by NTI IEC.
- Maintaining the records of NTI IEC and correspondence between committee members and researchers.

(C) Technical Assistance to Director's Office

- Assisted Director's office in official and technical correspondence.
- Assistance in preparation of NTI progress and achievements.
- Assisted publication section in compilation and finalization of annual reports (2022-2023 & 2023-2024) of the Institute.
- Assistance in compilation of annual report of MoH&FW 2024-25.
- Compilation of material for TB India Report 2025.

(D) WHO CC Activities

- Compiled and submitted Annual Report of NTI as WHO CC pertaining to approved work plan for the period 2023-2024.
- Assisted HRD in organization of workshop on "External Quality Assurance (EQA) programme for Cartridge Based Nucleic Acid Amplification Test (CBNAAT) by using MTB Dried tube specimen" at NTI, Bengaluru from 01 July 2024 to 12 July 2024 for the participants of Indonesia. Submitted detailed report of the workshop to the Ministry after its completion.

- Initiated the process of re-designation of NTI as WHO Collaborating Centre (IND 55) for the period 2025-2029. Finalized and submitted the new work plan to the WHO as per the inputs received from the respective divisions/units for the re-designation period 2025-2029. Participated in all the meetings organized by WHO and interconnected with the WHO country office for uploading the work plan at WHO portal.

(E) Miscellaneous

- Support to NTI Website Committee.

4. MONITORING AND EVALUATION DIVISION

Monitoring and Evaluation is a critical component of NTEP of India to ensure effective implementation of the program as per plan. Ni-kshay is a real time case based web based patient management system for tuberculosis control under the National Tuberculosis Elimination Programme (NTEP). The data generated from Ni-kshay are routinely analyzed by program officials at various level to improve the program performance. Proposal related to training the program officials at NTI on basic analysis of program data generated in Ni-kshay was submitted by M&E officials.

Evaluation of the program is currently done by internal evaluation by central TB division called joint supportive supervision as per planned protocol. Officials of NTI support central TB division in Joint supportive supervision of the states for ensuring effective implementation of the program. The objective of Central internal evaluation is not only to support the state visited in removing hurdles to effective implementation of the program with the help of Centre and other State health officials and Partners but also to replicate any innovative measures taken by the visited state in other states for successful program implementation.

Operational research proposals related to Monitoring & Evaluation was also submitted by the officials of the division. Monitoring and Evaluation supported in x-ray reading for early diagnosis of TB in participants.

The Divisional Head assisted CTD in the preparation of three standardized formats pertaining to the supervision and monitoring activities of STDCs - STDC Annual Action Plan, STDC Quarterly report and STDC bi-annual report.

Participation in the 100-days Intensified TB Elimination Campaign:

India's 100-days Intensified TB Elimination Campaign was a concentrated national drive launched by the Honourable Union Minister for Health and Family Welfare, Shri Jagat Prakash Nadda, on December 7, 2024

The 100 Days Campaign was designed as an intensive initiative to accelerate efforts toward the National TB Elimination Programme (NTEP) targets, especially in high-burden and underperforming districts. The campaign was a strategic response to this situation, considering wide variations in TB incidence and program performance

across the country. The campaign's objective was to intensify efforts to find missing TB cases, reduce deaths, and prevent new infections, focusing on a stratified approach in selected districts while maintaining routine activities in all regions. District prioritization was based on specific criteria such as high death rates and low testing rates, identifying 347 priority districts across 33 states and UTs for focused interventions.

NTI officers actively participated in supportive supervision and monitoring of the 31 campaign districts of Karnataka to ensure systematic implementation and progress tracking across all districts of the state.

The details of the visits undertaken by the Officers of NTI during the 100 day TB campaign is provided below:

Sl No.	Name of the Officer	First Round Supervisory Visits – Date	Second Round Supervisory Visits –Date	Districts visited
1.	Dr. N.Udanesha	21/01/2025	21/02/2025	Kodagu
2.		22/01/2025	20/02/2025	Mysuru
3.		23/01/2025	19/02/2025	Mandya
4.		28/01/2025	26/02/2025	Hassan
5.		30/01/2025	24/02/2025	Udupi
6.		31/01/2025	25/02/2025	Dakshina kannada
7.	Dr Uma Shankar S	31/01/2025	19/02/025	GADAG
8.		29/01/2025	17/02/25	Vijayapura
9.		30/01/2025	18/02/2025	Bagalkote
10.			20/02/2025	Haveri
11.			07/03/2025 08/03/2025	Hubballi
12.			05/02/2025 06/02/2025	Uttara Kannada

13.			04/03/2025 05/03/2025	Belagavi
14.	Dr Sanat Kumar Tripathy	23/01/2025 24/01/2025		Davanagere
15.		24/01/2025		Chitradurga
16.		04/02/2025 05/02/2025		Shivamogga
17.		05/02/2025 06/02/2025		Chikkamagaluru
18.		13/02/2025		Chamarajanagar
19.	Dr.Chethana Rangaraju	29/01/2025	04/03/2025	Bidar
20.		28/01/2025	03/03/2025	Kalaburagi
21.		30/01/2025	05/03/2025	Yadagiri
22.		31/01/2025	27/02/2025	Raichur
23.		23/01/2025	25/02/2025	Koppala
24.		24/01/2025	24/02/2025	Ballari
25.	Dr. Sarika Jain Agrawal	22/01/2025	04/03/2025	Bengaluru -BBMP
26.		27/01/2025		Bengaluru -Urban
27.			05/03/2025	Bengaluru -Rural
28.		28/01/2025	06/03/2025	Chikkaballapur
29.	Dr Poornima A	23/01/2025	10/03/2025	Tumakuru
30.		28/01/2025	04/03/2025	Ramanagara
31.		29/01/2025	27/02/2025	Kolar

5. ADVOCACY, COMMUNICATION AND SOCIAL MOBILIZATION DIVISION

The Advocacy, Communication and Social Mobilization Division in short the ACSM Division was set up to enable and enhance the TB Control Program at different fronts. The Division plays a key role in sensitizing the younger generations from nursing, paramedical, life sciences and medical students on TB and NTEP.

1. Scientific Gallery

The Scientific Gallery has been established to disseminate the general information on TB, the evolution of the programme, research conducted by NTI and achievements of the Institute since its inception. Considering the needs of the diverse categories of visitors like, Health officials from state government departments, doctors and para-medical personnel from government and private sector and various categories of health-sector trainees, regular in-house sensitization programme/training have been conducted by the division.

2. Sensitization Programme

Sensitization/ training on TB & NTEP for paramedical and basic life science students are regularly conducted by ACSM division as and when requested by the respective colleges.

During the year of reporting, a total of **1574 students** (Paramedical and Life Science) on TB and NTEP were sensitized at NTI. The details of the sensitization/ training conducted during the year are app ended below:

S1 No.	Date	Catagory of Students	Organisation	No. of Students
1	16.04.2024	Final Yr. B.Sc Nursing	T John College of Nursing	54
2	23.04.2024 & 24.04.2024	Final yr. B.Sc Nursing	NIMHANS- College of Nursing	84
3	29.04.2024	Ist yr, Microbiology students	East West First Grade College of Science & PG Centre	35
4	06.05.2024	Final year GNM	Laxmi Memorial College of Nursing	50

5	09.05.2024	B.Sc Prog. (Biotechnology, Microbiology, Biochemistry & Genetics)	Acharya Bangalore B- School	25
6	16.05.2024	Final Yr. B.Sc Nursing	D.M.J Institute of Nursing Science	35
7	17.05.2024	Final Yr. B.Sc Nursing	D.M.J Institute of Nursing Science	35
8	06.06.2024	Il year B.Sc Nursing	St. Johns College of Nursing	28
9	21.06.2024	Trainees of Diploma in Health Inspector	Medical Training Centre, Air Force	29
10	02.07.2024	4 th year B.Sc Nursing	Sri Kalabyraveswara Swamy College of Nursing	30
11	19.07.2024	2 nd year B.Sc Nursing	Harsha College of Nursing, Nelamangala	60
12	26.07.2024	4 th year B.Sc Nursing	Sri Sathya Sai Institute of Higher Medical Sciences College of Nursing, Whitefield	32
13	3.07.2024	4 th year B.Sc Nursing	Sri Kalabyraveswara Swamy College of Nursing	30
14	09.08.2024	4 th year B.Sc Nursing	Hoskote Mission Institute of Nursing	60
15	10.09.2024	4 th year B.Sc Nursing	Baptist College of Nursing	57
16	30.10.2024	Final year B.Sc Nursing and DGNM students	M V J College of Nursing	106
17	01.10.2024	4 th year B.Sc Nursing	NIMHANS College of Nursing	24
18	29.10.2024	Final year B.Sc Nursing and DGNM students	M V J College of Nursing	54
19	30.10.2024	Final year B.Sc Nursing and DGNM students	M V J College of Nursing	106
20	23.12.2024	Post Graduate Training Medical Officers	AFMC, Pune	12
21	27.01.2025	4th year B.Sc Nursing	Anupama College of Nursing	40
22	27.02.2025	4th year B.Sc Nursing	St Johns Collge of Nursing	32
23	06.03.2025	4th year B.Sc Microbiology	Smt. Kasturbai Walchand College of Arts and Science	30
24	12.03.2025	4th year B.Sc Nursing	Adventist College of Nursing	56
25	13.03.2025	4th year B.Sc Nursing	Adventist College of Nursing	60

26	19.03.2025	4th year B.Sc Nursing	KNN College of Nursing	60
27	20.03.2025	4th year B.Sc Nursing	KNN College of Nursing	60
28	21.03.2025	Final Year PharmaD	T John Collge of Pharmacy	45

Other Activities:

1. Sensitization on TB during 100 days campaign

Dr Poornima A ,SMO participated as a resource person to deliver a talk on TB to employees working at the following organizations

- Visvesvaraya Industrial & Technological Museum (National Council of Science Museums, Ministry of Culture, Govt. of India), Bengaluru on 15/01/2025
- Rail Wheel Factory(Indian Railways),Railway Hospital,Yelahanka Bengaluru on 31st January 2025
- Southern Regional Load Despatch Centre (SRLDC), Grid Controller of India Limited,Bengaluru on 24/02/2025.

2. Commemoration of World TB Day 2025

a. World TB Day was commemorated at NTI on 24th March 2025 with Welcome speech, virtual Inaugural address by Director, NTI, followed by Key note address and Sensitization programme on NTEP for all technical staff at NTI. Prizes were distributed to the winners of the competition who participated in Poster Presentation, Rangoli and Sketch of drawing with the theme Yes ! We Can End TB: Commit, Invest, Deliver’ and Quiz for technical staff.

b. Participation in CME on DRTB updates conducted by medical colleges
Dr. N. Somashekar, Ex Director participated as a resource person for sessions on DRTB at CME conducted at AIIMS Raipur on 9th March 2025 and Adhichunchangiri Institute of medical sciences(Mandya) and Siddaganga medical college, Tumakuru on 27th march 2025.

c. As a run up to the event several sensitization programs on the contribution of NTI, TB epidemiology and the guidelines under NTEP were conducted for final year students of Nursing, Microbiology and Pharmacy streams

Sensitization at NTI for Para-medical Students



Microbiology Student sensitization from Smt. Kasturbai Walchand College of Arts and Science Sangli, Maharashtra on 6/3/2025



3rd Year Nursing College Student sensitization from Adventist College of Nursing



Nursing Student sensitization from KNN College of Nursing, Bengaluru on 20/3/2025



PharmaD Student sensitization from T John College of Pharmacy, Bengaluru on 21/3/2025



Microbiologist sensitization - GoodWill College, Bengaluru – 03/04/2024

Sensitization on TB during 100 days campaign



HealthTalk
on
Tuberculosis Awareness
.....
From : 03:00 pm to 4:00 pm
Venue: Viwer's Gallery

Monday, 24th February 2025

By National Tuberculosis Institute -Bengaluru



By
Dr.Poornima A
Senior Medical Officer



TUBERCULOSIS

Sensitization on TB during 100 days campaign- Southern Regional Load Despatch Centre (SRLDC), Grid Controller of India Limited,Bengaluru on 24/02/2025.



Sensitization on TB during 100 days campaign- Visvesvaraya Industrial & Technological Museum (National Council of Science Museums, Ministry of Culture, Govt. of India),



Sensitization on TB during 100 days campaign- Rail Wheel Factory(Indian Railways),Railway Hospital,Yelahanka Bengaluru - 31st January 2025

6. ADMINISTRATIVE DIVISION

The Administration Division of NTI caters to all the administrative requirements of the Institute. The five units under this Division are Establishment, Accounts, Hostel, Stores, and Transport Units. The major activities of the units for the financial year 1st April 2024 to 31st March 2025 are briefly furnished below.

Establishment Unit

The unit caters to the administrative matters, general upkeep of campus through CPWD, provision of contractual manpower to various divisions and service matters pertaining to the staff viz., Framing of Recruitment Rules in respect of all Group 'B' & 'C' posts as per the recommendation of VII CPC and its onward transmission to the CTD for its notification, holding of DPC for considering cases of promotion, confirmation, grant of MACP, processing of legal issues pertaining to service matters coming under the purview of Central Administrative Tribunals and Honorable High Court of Karnataka & SLP in the Supreme Court.

The details of staff position are as under:

Sl. No.	Category	Sanctioned	In Position	Vacant
1	Group 'A'	14	11	3
2	Group 'B' (Gazetted)	2	1	1
3	Group 'B' (Non-Gazetted)	38	24	14
4	Group 'C'	71	46	25
Total		125	82	43

Promotions

Sl. No.	Name	Designation	Date
1	Dr. Sanat Kumar Tripathy	Consultant (TB)	Order dated 11-2-2025 W.e.f. 12-03-2023)

Retirements on attaining the age of superannuation

Sl. No.	Name	Designation	Date
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1	Sr. C. Murthy	Driver	30/04/2024
2	Sri. R. Padmesha	X-Ray Technician	31/05/2024
3	Sri. K.K. Anandababu	X-Ray Technician	30/11/2024
4	Sri. H.D. Surendra	Med. Lab. Tech.	31/01/2025
5	Smt. P. Latha	UDC	31/01/2025
6	Smt. P. Suganthi	Investigator	28/02/2025

Retirements other than superannuation:

Sl. No	Name	Designation	Date
1	Sri. R. Manjunath	Telephone Operator	18/09/2024

Transfers from NTI - NIL

Transferred to NTI

Sl. No.	Name	Designation	Date
1	Sri. Ashish Yadav	Deputy Director	02-07-2024

Interviews Conducted: -

Sl. No	Name of the Project	Date of Interview	Total No of Posts
1	NTI-EQA-NRL project under NTEP	16-12-2024	03

- **Departmental Promotion Committee meetings conducted - Nil**
- **MACP**

Sl. No	Total no. of MACP Cases Processed
1	03

- **Court Cases**

Sl. No	Name of the Court	Total No. of Cases
1	CAT, Bengaluru	3
2	Family Court	1

• **CGHS**

Sl. No	Total no. of Permissions Granted
1	38

• **Pay Fixation**

Sl. No	Total No. of Pay Fixations
1	12

Other activities:

1. Constitution day was celebrated on 26th November 2024 at the office, all staff of the institute recited the preamble of constitution of India.
2. The details of the administrative trainings given to faculty / staff during the year are given below :

Sl. No.	Training particulars	Officers/officials	Date
1.	CGHS and CS (MA) rules held at RTC, INGAF, Chennai	Smt. S.L. Nagarathna, UDC	20/05/2024 to 21/05/2024
2.	Refreshing training on Administrative aspects held at NTI, Bengaluru	All the Officers, Staff from Administration Division	27/05/2024 to 31/05/2024
3.	GST and TDS on GST held at RTC, INGAF, Chennai	Dr. N. Udanesha, CMO (SAG), Addl. Director	06/06/2024
4.	Module B Induction Training Program held at Zonal Training Center,	Sr. B. V. Venkatachalappa, ,JSO Sri. R. Jitendra ,JSO	19/08/2024 to 31/08/2024

	NSSO (FOD), Kormangala, Bengaluru	Smt. Archna Kumari ,JSO	
5.	Training on PFMS: Pension Module and E Bavishya held at INGAF, Chennai	Smt. S.L. Nagarathna, UDC	04/10/2024
6.	Refreshment training programme on “Procurement of GeM” held at AJ-NIFM, Faridabad	Sri. Shyam Krishnan,JSO Smt. Archna Kumari,JSO	18/11/2024 to 22/11/2024

3. Training and felicitation of Sanitary workers during special campaign 4.0 and Karmayogi Saptah-National Learning week from 19th to 25th October 2024.
4. Hindi day was celebrated on 13th September 2024.

ACCOUNTS UNIT

	Budget Estimate	Expenditure
Revenue	Rs. 18,84,00,000	Rs. 18,06,96,000
Capital	Rs. 01,16,00,000	Rs. 33,22,000

CIVIL, HORTICULTURAL AND ELECTRICAL RELATED MAINTENANCE WORKS CARRIED OUT IN THE FINANCIAL YEAR 2024-25

Civil, Electrical works and maintenance by CPWD:

The Civil, Horticultural, and Electrical works of the Institute are being executed through the Central Public Works Department (CPWD), under the Ministry of Housing and Urban Affairs, Government of India, out of the budget sanctioned to NTI during each financial year.

A budget of Rs. 1,38,00,000/- Under the head of account OTHER CAPITAL EXPENDITURE – MAJOR WORKS, MINOR CIVIL AND ELECTRICAL WORKS was allocated to the Institute during the financial year 2024-25 for carrying out maintenance and new works. The following Civil, and Electrical works were executed during the period under report, in addition to other routine repair & maintenance work:

CPWD, CIVIL Works

1. Day-to-day maintenance works of Residential buildings at NTI campus.
2. Day-to-day maintenance works of Non-Residential buildings at the NTI campus.
3. Civil pending works at International Guest house.
4. Renovation of six toilets in the office building at NTI campus.
5. Development of Lawn in front of the main building.

CPWD, Electrical Works

1. Day-to-day maintenance works of Residential buildings at NTI campus.
2. Day-to-day maintenance works of Non-Residential buildings at the NTI campus.
3. Running and Maintenance 2 nos of 125 KVA DG Set and Passenger lift at NTI Campus.

STORES UNIT

Stores cater to the logistic needs of various Units/Divisions of the Institute. It is responsible for procurement and supply of stores items for the smooth functioning of the Institute. This involves extensive procedures viz., receipt of indents from individual Units and their compilation, calling for quotations/ tenders, arrangements for opening the tenders, preparation of comparative statements and submission of the same to the Purchase Committee for its recommendations for further necessary action.

The other functions of the Unit include:

- I. All major procurements are made through GeM.
- II. Maintenance of stores /stock ledger.

III. Arrangement for Annual Maintenance of equipment's held by different Units / Divisions.

Details of purchases and other activities performed during 2024-25

1. Items purchased against Annual Indent 2023-24 as decided and approved by the director and issued to various Units.
2. Stationery Items, General Stores Items and Sanitization items are purchased Through GeM & issued to various Units.
3. Laboratory chemicals, consumables etc., purchased and issued to Laboratory Unit.
4. Stationery, General stores items and Training bags are purchased for Training unit and issued for their various Training activities.
5. IT Peripherals are purchased and issued to Computer Training Unit.
6. Procurement of Online UPS Batteries for issuing to CTU and Laboratory.
7. Laptops purchased and issued to Director's office and CTU.
8. Process for initiation of Calibration work for laboratory instruments to NABL activities.
9. Annual Maintenance Contract for computers, printers etc., renewed
10. Annual Maintenance Contract for online UPSs renewed.
11. Annual Maintenance Contract for laboratory Instruments/Equipment's were renewed.
12. Disposal of Bio-medical waste contract renewed.
13. Repair and servicing of Laboratory Instruments held by Laboratory Unit.
14. Servicing and refilling of Fire extinguishers held by this institute is initiated.
15. Stationery items and miscellaneous items purchased and issued for POD Vaccine Trial.

TRANSPORT UNIT

Presently, the Unit has 11 vehicles of which 7 are deemed for condemnation, and 4 vehicles which have been purchased in 2020s are in running condition. The unit also maintains all the documents pertaining to the registration and condemnation of the vehicles.

Condemnation of seven vehicles and letters regarding the condemnation of the vehicles have been communicated.

7. PARTICIPATION IN MEETINGS / PROGRAMMES / SEMINARS / CONFERENCES / WORKSHOPS / CME ETC.

The Director, faculty and technical staff of NTI participated as facilitators, resource person / delegate in Conference / workshops / training programmes conducted in both at NTI and outside. The details are furnished below:

Sl No.	Particulars	Dates	Resource Person/ participant
1.	Attended the POSH quarterly meeting as external member at Regional Office for Health & F W, Govt of India, Bangalore.	08-02-2024	Dr Poornima A
2.	Chairperson for the Technical session I in the Zonal Task Force meeting – South Zone I held at Visakhapatnam, Andhra Pradesh	04-04-2024 to 05-04-2024	Dr. N. Somashekar
3.	Regional Review of STDCs & Cross Learning held at STDC Agra - Resource person	04-07-2024 to 05-07-2024	Dr. Preetish .S. Vaidyanathan Dr. S. Uma Shankar
4.	Technical Specification committee meeting in the chamber of Additional Director, NHM at Arogya Soudha, Bengaluru	29-04-2024	Dr. N. Somashekar Dr. Mamatha H G Ms. Pooja
5.	STDC – Regional Review and cross-learning workshop to	29-04-2024	Dr. N. Somashekar

	review the state of Tamilnadu, Telangana, Jharkhand and West Bengal organized by STDC Hyderabad.		
6.	Apex Working Group meeting at CTD(New Delhi)	02-05-2024 to 03-05-2024	Dr. Ravichandra. C
7.	1st meeting of the Apex Working group at NITRD, New Delhi followed by an Administrative meeting with DDG to discuss certain issues pertaining to NTI	03-05-2024	Dr. N. Somashekar
8.	Onsite Training on LPA and LC-DST at STDC Nagpur	06-05-2024 to 10-05-2024	Dr. Kishore Reddy Mr. Charan Mr. Manjunath
9.	Chaired the meeting with CDC Atlanta Team held at NTI	09-05-2024	Dr. N. Somashekar
10.	Deliver a lecture on 'TB Scenario: Karnataka State' during the Continuing Medical Education programme on 12th May 2024, "Exploring Respiratory Tract Infections: Trends and Diagnostics" held at Department of Microbiology, Kasturba	12-05-2024	Dr. N. Somashekar

	Medical College, Mangalore		
11.	Meeting with Dr. Nibedita Rath and Mr. Saibaba, Scientific Director, Open Source Pharma Foundation, Bangalore and had discussion regarding publishing a newsletter on Tuberculosis in collaboration with NIAS, NIRT & The UNION South East Asia Region.	22-05-2024	Dr. N. Somashekar
12.	Zonal Task Force meeting (North Zone) at Udaipur, Rajasthan.	10-06-2024	Dr. N. Somashekar
13.	Technical Specification committee meeting for procuring laboratory requirements at Arogya Soudha Bangalore	21-06-2024	Dr. Mamatha H G Ms. Pooja
14.	Zonal Task Force meeting (West Zone) at Pune, Maharashtra.	21-06-2024 to 22-06-2024	Dr. N. Somashekar
15.	Zonal task force meeting of NE Zone at Agartala, Tripura	02-07-2024 to 03-07-2024	Dr. N. Somashekar
16.	NAAT EQA Transition meeting with CTD	05-07-2024	Dr. Somashekar N Dr. Sarika Jain Agrawal Dr. Mamatha H G

17.	Zonal Task Force meeting (East Zone), at Chennai, Tamilnadu	08-07-2024 to 09-07-2024	Dr. N. Somashekar
18.	Virtual meeting on DRTB review of Karnataka districts organized by STDC Karnataka	16-07-2024	Dr. Mamatha H G Mrs. Vinutha
19.	Meeting on finalization of STDC Annual Action Plan and reporting format at NTI Bengaluru	18-07-2024 to 19-07-2024	Dr. N. Somashekar Dr. Preetish S. Vaidyanathan Dr. Ravichandra. C Dr. S. Uma Shankar Dr Poornima A
20.	Zonal Task Force meeting (East Zone) at Ranchi Jharkhand.	25-07-2024 to 26-07-2024	Dr. N. Somashekar
21.	Apex Working Group Meeting Review DTO course at NITRD (New Delhi)	29-07-2024 to 02-08-2024	Dr. Ravichandra. C
22.	Chief Guest and delivered a key note address on Recent NTEP updates at the State Level NTEP Conference held at Subbaiah Medical College Hospital & Research Centre, Shivamogga.	05-08-2024	Dr. N. Somashekar
23.	Need Assessment committee meeting for procuring Truenat machines at Arogya Soudha Bangalore	07-08-2024	Dr. Mamatha H G Ms. Pooja

24.	Technical supportive and supervisory visit to Mumbai C&DST Labs at SION Hospital, GTB Hospital, Katurba Hospital, KEM Hospital and JJ Hospital	13-08-2024 to 14-08-2024	Dr. Mamatha H G Ms. Pooja D
25.	Truenat Training for LTs and STLS of Karnataka Truenat sites at STDC Karnataka	19-08-2024 to 30-08-2024	Mr. Charan Ms. Pushpa Mrs. Likitha Ms. Nandini
26.	Consultation Workshop for finalization of the training material/ presentations on the Management of Extrapulmonary TB under NTEP at NTI Bangalore	27-08-2024 to 31-08-2024	Dr. N. Somashekar Dr. Preetish S. Vaidyanathan Dr. Ravichandra. C Dr. S. Uma Shankar Dr. Sarika Jain Agrawal Dr Poornima A
27.	DLSS Training at NIRT-ICMR Thiruvallur	29-08-2024	Dr. Mamatha H G
28.	National capacity building workshops for the introduction of BPaLM treatment regimen for MDR-TB patients. at Mumbai, Maharashtra	02-09-2024 to 04-09-2024	Dr. N. Somashekar
29.	Participated in the virtual meeting for reviewing and accepting research proposals related to Multi Disciplinary Research Unit	09-09-2024	Dr. N. Somashekar

	of MIMS Mandya		
30.	Faculty for Regional Workshop on TB Diagnostic Quality Assurance at Hanoi	11-09-2024 to 12-09-2024	Dr. Mamatha H G
31.	National Task Force meeting at Shimla Himachal Pradesh	18-09-2024 to 19-09-2024	Dr. N. Somashekar
32.	NRL Coordination Committee meeting at CTD ,New Delhi	20-09-2024 to 21-09-2024	Dr. N. Somashekar Dr. Sarika Jain Agrawal Dr. Mamatha H G Mrs. Vinutha Ms. Pooja D
33.	Expert Committee Meeting at ICMR HQ to review final data of POD Vaccine Trial in Hybrid Mode.	24-09-2024	Dr. N. Somashekar
34.	Virtual meeting with CTD regarding Study to evaluate the newer version of the Rif test through a multi-centric setting under the programme	25-09-2024	Dr. Sarika Jain Agrawal Dr. Mamatha H G
35.	Virtually participated in the Webinar on Social Protection for People Affected by Tuberculosis: Implication and way forward for SE Asia on Region jointly organized by WHO SEAROP & ILO	01-10-2024	Dr. N. Somashekar

36.	National Workshop for training Coordinators(Bhopal)	07-10-2024 to 09-10-2024	Dr. Ravichandra. C
37.	Meeting with Dr. Rudresh to discuss research collaboration on Zoonotic TB	08-10-2024	Dr. N. Somashekar Dr. Sarika Jain Agrawal Dr. Mamatha H G
38.	Virtual meeting on Scaling up TPT in South East Asia region t 3:00 pm	17-10-2024	Dr. N. Somashekar
39.	79th National Conference on Tuberculosis and Chest Diseases (NATCON-2024) at Jaipur	18-10-2024 to 20-10-2024	Dr. N. Somashekar Dr. Preetish S. Vaidyanathan Dr Ravichandra C Dr. S. Uma Shankar Dr. Mamatha H G
40.	National level Capacity building workshop for BPALM regimen for treatment of MDR/RR-TB at Delhi	21-10-2024 to 23-10-2024	Dr. Mamatha H G
41.	National Tuberculosis Elimination Programme (NTEP) Regional Training on TB Detection and Management at New Delhi in collaboration with CTD and iDEFEAT-TB project, The Union.	21-10-2024 to 23-10-2024	Dr. N. Somashekar
42.	Capacity building workshops for introduction	21-10-2024 to 23-10-2024	Dr. N. Somashekar

	and scale-up of BPaLM for treatment of MDR/RR-TB at NIHFW, New Delhi		
43.	South Zone Capacity Building workshop for BPaLM regimen for treatment of MDR/RRTB at Bangalore	07-11-2024 to 08-11-2024	Dr. N. Somashekar Dr. Preetish S. Vaidyanathan Dr Ravichandra C Dr. Mamatha H G
44.	Capacity building workshop on LCDST to newer anti TB drugs and FDA Staining at ICMR-NIRT, Chennai	18-11-2024 to 20-11-024	Dr. Mamatha H G Mr. Charan
45.	Zonal Capacity Building Workshop For Management of Drug-Resistant TB - north zone held at Chandigarh as Session Moderator	20-11-2024 to 21-11-2024	Dr. N. Somashekar
46.	Faculty for Antimicrobial Stewardship workshop on 'DRTB NTEP Updates' at Akash Institute of Medical Sciences, Devanahalli	21-11-2024	Dr. Sarika Jain Agrawal
47.	West Zone - Zonal Capacity building workshops for BPaLM regimen for treatment of MDR/RR-TB at Pune	29-11-2024 to 30-11-2024	Dr. Mamatha H G
48.	Faculty for CME on 'Updates on Tuberculosis Program' at	03-12-2024	Dr. Mamatha H G

	CDISMER Kanakapura		
49.	Virtual meeting by CTD on Diagnostic Network Optimization for TB Diagnosis	10-12-2024	Dr. Mamatha H G Mrs. Vinutha Ms. Pooja Mrs. Sudha R
50.	Virtual Faculty for Biosafety Training for INMAS students at NCDC Delhi	19-12-2024	Dr. Sarika Jain Agrawal
51.	General body meeting of the Karnataka State Tuberculosis Association at 12:00 noon in Arogya Soudha, Leprosy Hospital Compound, Bengaluru	26-12-2024	Dr. N. Somashekar
52.	Virtual Meeting of DTO, STLS, Truenat sites LT from BBMP, Bangalore rural, Bangalore urban for sensitization on Truenat Rif indeterminate study	02-01-2025	Dr. Sarika Jain Agrawal Dr. Mamatha H G Mrs. Likitha
53.	Virtual meeting with WHO and UNION regarding conducting SORT IT course	06-01-2025	Dr. N. Somashekar Dr. Preetish S. Vaidyanathan Dr. Ravichandra Mr. Ashish Dr. Mamatha H G
54.	Virtual Meeting with IT consultant for NAAT EQA	07-01-2025	Dr. Udanesh Dr. Ravichanadra Mr. Ashish

			Dr. Mamatha H G Ms. Pooja Mrs. Sudha R Mr. Shyam
55.	Meeting with Dr. Avinash, Plot New Bioinnovation Pvt Ltd for discussing new biomarker test for TB detection	09-01-2025	Dr. N. Somashekar Dr. Mamatha H G
56.	As a resource person delivered talk on TB at Visvesvaraya Industrial & Technological Museum (National Council of Science Museums, Ministry of Culture, Govt. of India), Bengaluru	15-01-2025	Dr Poornima A
57.	Technical Specification Committee Meeting of Karnataka for procurement of NAAT Machines at Arogya Soudha (joined virtually)	16-01-2025	Dr. Mamatha H G
58.	SEARO Webinar: Stool Testing for Pediatric TB	16-01-2025	Dr. N. Somashekar Dr. Sarika Jain Agrawal Dr. Mamatha H G
59.	Virtual meeting with CTD regarding important points for Implementation of BPALM regimen for MDR-TB patients	17-01-2025	Dr. Mamatha H G

60.	Participated in the Administrative meeting with AS & MD. M/o H&FW	20-01-2025	Dr. Preetish S. Vaidyanathan
61.	As a resource person delivered talk on TB at Rail Wheel Factory(Indian Railways),Railway Hospital,Yelahanka Bengaluru on 31st January 2025	31-01-2025	Dr Poornima A
62.	Visit to BSL 3 lab facility at IISc-CIDR	07-02-2025	Dr. Preetish S. Vaidyanathan Dr. Ravichanadra C Dr. Sarika Jain Agrawal Dr. Mamatha H G
63.	ISO 15189: 2022 training (online)	12-02-2025 to 13-02-2025	Dr. Sarika Jain Agrawal Dr George Sebastian Dr. Mamatha H G Dr. Jureka Mr. Manjunath A Mr. Zakir
64.	As a resource person delivered talk on TB at Southern Regional Load Despatch Centre (SRLDC), Grid Controller of India Limited,Bengaluru	24-02-2025	Dr Poornima A
65.	Pathodetect Technical Specification Committee Meeting (virtual) by CTD	25-02-2025	Dr. Mamatha H G

66.	AIIMS Raipur resource person on DRTB	09-03-2025	Dr. N. Somashekar
67.	India innovative summit ICMR-CTD, participated as panelist :adherence	18-03-2025	Dr. N. Somashekar
68.	Virtual meeting with Dr. Anand for discussing NAAT EQA Transition plan	25-03-2025	Dr. Mamatha H G
69.	CME on DRTB updates at Adhichunchangiri Institute of medical sciences(mandya) and Siddaganga medical college,tumkur	27-03-2025	Dr. N. Somashekar
70.	Virtual Meeting with Dr. Vinay Garg for MTS trainings at NTI	28-03-2025	Dr. Preetish S. Vaidyanathan Dr Ravichandra Dr Umashankar Dr Tripathy Dr. Sarika Jain Agrawal Dr. Poornima Dr. Mamatha H G
71.	Discussion with Dr.Anand and Dr. Nishant regarding need of approval for NAAT EQA transition plan	28-03-2025	Dr. Mamatha H G
72.	16 -Virtual CBNAAT EQA Sensitisation program to various states across the country	During January to March 2025	Dr. Jureka Mr. Zakir Ms. Pooja Mrs Sudha R

WORLD HEALTH ORGANIZATION COLLABORATING CENTRE (WHO CC)

National Tuberculosis Institute has been functioning as a WHO Collaborative Centre for Training and Research in TB Since 1985. During the ongoing ***Re-designation period 2021-25***, NTI carried out the following WHO collaborative activities in line to the approved work-plan:

1. Capacity building in improvement of quality of TB Care Services and Health System Resilience for TB Control and Elimination
2. TB Epidemiological modelling- Transmission models
3. Participation in WHO's collaborative TB research
4. Supporting WHO's capacity building activities towards establishing an External Quality Assurance (EQA) programme for Cartridge Based Nucleic Acid Amplification Test (CBNAAT) in WHO SEAR countries
5. Training workshop in whole genome sequencing (WGS) for *Mycobacterium tuberculosis*.

For the upcoming ***Re-designation period 2025-29***, NTI as a WHO CC proposed and submitted the following activities under the forthcoming work plan, the approval is awaited from WHO:

1. Support WHO to conduct Capacity Building workshop for Establishing an External Quality Assurance (EQA) program for Cartridge Based Nucleic Acid Amplification Test (CBNAAT)/ Truenat using Dried tube specimen
2. Support WHO to conduct training workshop on Molecular techniques for drug resistance detection in *Mycobacterium tuberculosis*
3. Training workshop in whole genome sequencing (WGS) for *Mycobacterium tuberculosis*
4. Support WHO to conduct Tuberculosis care and control Operational Research workshop
5. Support WHO in the Capacity building of NTP managers for utilization of programme data