

NEW DELHI TUBERCULOSIS CENTRE

ANNUAL REPORT

2018 - 2019

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Message from Chairman

It is a matter of immense pleasure and pride to see New Delhi Tuberculosis Centre growing since its establishment in 1940. The Centre today holds a place amongst the national level institutes serving the patients with TB and other respiratory diseases.

The Centre continues to be recognized for its expertise in the field of TB research and training. Central TB Division has honoured the centre and recognized it as State TB Training and Demonstration Centre for the state of Delhi. Also the laboratory of the Centre has been designated as Intermediate Reference Laboratory.



Dr. L.S. Chauhan

The institute is actively involved in the RNTCP activities in coordination with State TB Cell. It is also actively involved in enhancing the notification of TB cases in Delhi State. The faculty and staff of the institute play significant role both scientifically and technically in strengthening TB control activities nationally.

I express my heartiest gratitude and appreciation to learned faculty, technical staff and all employees of NDTB Centre for their commitment and constant support to RNTCP towards achieving its goal. May the institute expand, diversify and flourish more and more to impart superior and quality health services to TB patients.

I would like to extend my full cooperation and support for achieving the greater heights and goals of the Centre.

Dr. L.S. Chauhan
Chairman

From Director's Desk



New Delhi Tuberculosis Centre completed 79 years of its glorious journey of working in the field of tuberculosis and respiratory diseases. At every stage of progress in TB Control in India, it has marked its presence prominently. In pre-chemotherapy era, artificial pneumothorax and pneumoperithorax was practised in the Centre for management of TB. During chemotherapy era the Centre played a big role in introduction of OHT (Organised Home Treatment) and development of long term and short course chemotherapy regimens as part of multinational studies. During this era, the Centre was one of the six big sites for famous ICMR conducted first nationwide disease prevalence survey. During RNTCP era, the Centre started its activities as one of ten district TB centres in Delhi implementing RNTCP from pilot project stage and finally crossed to become STDC and IRL for Delhi state. All throughout, clinical, teaching, research both basic and operational has been the main activities of the Centre.

Clinical section is providing diagnostic and treatment services for TB and respiratory diseases. Patients are referred from all parts of Delhi and surrounding states. This year 23731 patients attended

general OPD and 1283 patients were enrolled and followed up in COAD clinic. Efforts are on to add PFT machine and a digital x-ray machine.

Laboratory of the Centre is equipped with all diagnostic facilities starting from microscopy to whole genome sequencing. This year 49468 tests were done in the laboratory. In addition, laboratory facility is being used for teaching and training of medical and para medical staff. A number of research projects are being conducted. This year our laboratory was accredited by NABL also. Efforts are in to renovate the laboratory so as to cope up with the increasing workload.

Training section of the Centre trained 1995 personnel during the year. ECHO platform is also being used for training and programme review purposes. Efforts are on to make use of e-module and frequent use of ECHO platform so as the time and POL for personally attending the training and review sessions.

The faculty of the Centre is actively involved in conducting research activities in clinical, bacteriological and programme related aspects. During the year, 4 papers were published in journals and 4 were communicated for the publication.

TB Association of India has been monitoring the working of NDTB Centre since its inception and guiding in improving activities of the Centre. I am grateful to the Ministry of Health & Family Welfare and Central TB Division for the financial support. I am grateful to all the members of Managing Committee, State TB Control Officer Delhi State and TB Association of India for valuable help and cooperation for strengthening the infrastructure at New Delhi Tuberculosis Centre.

Dr.K.K.Chopra
Director

ABOUT THE INSTITUTE

New Delhi Tuberculosis Centre was established in 1940 as a grantee institute of Government of India, Ministry of Health & Family Welfare. In 1951, it was upgraded as the first TB Demonstration cum Training Centre in the country with the assistance of WHO, UNICEF and Government of India. In 1966, the Centre became a referral institute for tuberculosis patients. The patients from all parts of country who are referred at the Centre were given diagnostic and treatment facilities.

In the year 1997, New Delhi Tuberculosis Centre joined hands in implementation of DOTS strategy under RNTCP. At this time, the Centre was one of the 10 chest clinics of Delhi who covered a population of about 0.5 million spread over an area of 15 sq. km. mainly in walled city of Delhi.

In the year 2005, the Central TB Division has designated New Delhi TB Centre as State TB Training & Demonstration Centre and Intermediate Reference Laboratory for Delhi State in addition to functioning as referral Centre for patients of pulmonary diseases and tuberculosis.

The Centre has a Managing Committee which oversees the smooth functioning of New Delhi TB Centre. The Managing Committee has general control of the affairs of the Centre and has authority to do, exercise and perform all the powers, acts and deeds for the planning, establishment and running of the Centre. The committee consists of members from Ministry of Health & FW, Delhi Government, Corporations, TB Association of India and other NGOs. For smooth running of the Centre, the Ministry of Health & Family Welfare (CCD) allots the grant in aid to the Centre every financial year.

MANAGING COMMITTEE

Vice- Chairman Tuberculosis Association of India	Chairman
Hony. Treasurer Tuberculosis Association of India	Financial Adviser
The Additional Secretary & FA Ministry of Health & Family welfare	Member
The Joint Secretary (Health) Ministry of Health & Family Welfare	Member
The Deputy Director General (TB) Ministry of Health & Family Welfare	Member
The Director National Institute of TB & Respiratory Diseases	Member
The Director VP Chest Institute	Member
The Director of Health Services Delhi Administration	Member
The Director Medical Services New Delhi Municipal Committee	Member
The Honorary General Secretary Delhi Tuberculosis Association	Member
The Secretary General Tuberculosis Association of India	Member
The Director H&F Welfare Directorate of Health Ministry of Railway	Member
The Director New Delhi TB Centre	Member Secretary

SCIENTIFIC ADVISORY COMMITTEE

Dr. L.S.Chauhan Chairman New Delhi Tuberculosis Centre	Chairman
Dr. Ashwani Khanna State TB Officer Delhi State	Member
Prof. Raj Kumar Director V P Chest Institute	Member
Dr. Varinder Singh Professor – Padiatric, Kalawati Hospital Lady Harding Medical College	Member
Shri G.P. Mathur Ex-Statistician New Delhi Tuberculosis Centre	Member
Dr. M. Hanif K.M. Bacteriologist New Delhi Tuberculosis Centre	Member
Dr. Nishi Aggarwal Statistician New Delhi Tuberculosis Centre	Member
Dr. K.K. Chopra Director New Delhi Tuberculosis Centre	Member Secretary

ETHICAL COMMITTEE

Prof. Raj Kumar Director VP Chest Institute	Chairman
Dr. Sanjay Rajpal Chest Physician New Delhi Tuberculosis Centre	Member
Dr. M. Hanif, K.M Bacteriologist New Delhi Tuberculosis Centre	Member
Dr. Chinkholal Thangsing NGO – HIV Expert	Member
Shri T.S. Ahluwalia Secretary General Tuberculosis Association of India	Member
Prof. Mala Sinha Faculty of Medical Science Delhi University	Member
Mr. Swetaketu Mishra Advocate	Member
Dr. M. M.Singh Professor Maulana Azad Medical College	Member
Dr. Nishi Agarwal Statistician New Delhi Tuberculosis Centre	Member
Sh. Kumar Delhi TB Association	Member
Sh. Sanjeev Gupta Community Person	Member
Dr. Shanker Matta Epidemiologist New Delhi Tuberculosis Centre	Member Secretary

SENIOR STAFF MEMBERS

Dr. K.K. Chopra M.B.B.S., M.D., D.T.C.E	Director
Dr. Sanjay Rajpal M.B.B.S., D.T.C.D., F.N.C.C.P.	Chest Physician
Dr. Mahmud Hanif Ph.D	Bacteriologist
Dr. Nishi Aggarwal Ph.D	Statistician
Dr. Shanker Matta M.B.B.S., M.D	Epidemiologist
Dr. Shivani Pawar M.B.B.S., D.T.C.D.	Medical Officer
Mr. S.K. Saini B.Com, AICWA	Administrative Officer

RESEARCH AND PUBLICATIONS

(A) Research papers published

During the year 2018-19, the following research papers have been published or submitted for publications by faculty of the Centre in national and international journals.

1. "Treatment seeking pathway in pediatric Tuberculosis patients attending DOT Centres in urban areas of Delhi." The Paper published in Indian Journal of Tuberculosis. 2018 ; 65 (4) : 308-314
2. "Socio demographic profile and treatment outcomes in pediatric Tuberculosis patients attending DOT Centres in urban areas of Delhi." The Paper published in Indian Journal of Tuberculosis.; 66(1), 123-128
3. "Development of a Gastric Resident device for prolonged gram level dosing : Towards improving adherence to tuberculosis treatment." Paper published in Science Translational Medicine,2018.
4. "A model to predict unfavorable treatment outcomes in patients with tuberculosis and human immunodeficiency virus co-infection in Delhi." Paper published in PLOS ONE, 2018.
5. "Baseline second line drug susceptibilities of Multi drug and Rifampicin resistant Mycobacterium Tuberculosis isolate in Delhi." Paper submitted for publication in European Respiratory Journal. 2018
6. "Upfront Xpert MTB/RIF testing on various specimen types for presumptive paediatricTB cases for early and upfront treatment initiation". Paper published in PLOS ONE –D-17-37251RZ
7. "High percentage of Beijing genotype among multi drug resistant tuberculosis Isolates in Delhi Region." Letter to editor published in Biomedical and Biotechnological Research Journal (BBRJ) June 20, 2018, IP:42.108.189.169
8. "Genetic polymorphism of rare mutations in Mycobacterium Tuberculosis infected patients in Delhi." Published in Biomedical and Biotechnological Research Journal (BBRJ) DOI : 10.4103/bbrj.bbrj-13-18, Jan 2018.
9. "Detection of Multi drug resistant and Rifampicin Resistance among smear negative and Extra pulmonary tuberculosis cases in a reference laboratory." Published in Biotechnological Research Journal (BBRJ) Jan 2018 DOI:10.4103/bbrj.bbrj-48-18

10. "Can sputum Microscopy be replaced." Editorial published in Indian Journal of Tuberculosis. 2018 ; 65(4) : 275-276.
11. "End TB – Strategy – A Dream to Achieve". Editorial published in Indian Journal of Tuberculosis. (Special Issue) March 2019.
12. "Journey of Tuberculosis Control in India". Article published in Indian Journal of Tuberculosis. (Special issue) March 2019.
13. "Achieving TB elimination in India : The role of latent TB management". Paper published in Indian Journal of Tuberculosis. 2019; 66 (1), 30-33.
14. "Impact of integrated psycho-socio-economic support on treatment outcome in drug resistant tuberculosis – A retrospective cohort study". Paper published in Indian Journal of Tuberculosis. 66 (1), 105-110.
15. "Pattern and Trend of drug sensitivity in MDR-TB cases in Delhi (2009-14) - A record based study". Accepted for publication in Indian Journal of Tuberculosis.
16. "TB Diagnostics: Journey from smear microscopy to whole Genome Sequencing" Chapter contributed in the book "Mycobacterium tuberculosis: Molecular infection Biology, Pathogenesis, diagnostics and new interventions" to be published by imprint Springer, publisher of Journal Nature.

(B) **Research Projects**

1. **Framework for TB care in Prisons.**

A project titled "Framework of TB care in prisons" is being conducted by NDTB Centre. Aim of this project is to estimate the burden of TB among prison inmates at Tihar Jail and to frame the operational modalities for early detection of TB and drug resistant TB at Tihar Jail. Lastly, to mobilize standardized TB care practices among the jail inmates. After sensitization of medical and para medical staff of Tihar, Active Case finding was started from the month of October 2018. Till 31st March, 2019. 10476 inmates have been screened, out of which 655 symptomatics were found and 70 TB cases were detected. All detected TB cases have been put on treatment as per RNTCP guidelines.

2. **Active Case Finding Campaign of Tuberculosis among People who use intravenous Drugs in New Delhi.**

Active case finding campaign was an activity propagated by the programme. This was a house to house survey for search of TB symptomatic. The Objective of the OR is (a) Early identification of TB suspects. (b) Early diagnosis (c) Treatment preparedness (d) Link to Treatment and Care. Targeted Population : Person who Inject drugs in the area of Delhi of Yamuna Bazar and Hanuman Mandir in CP of New Delhi. Estimated number of population will be from field area of two Target Intervention centres of DSACS project which is

approximately 2500. After training of the field teams, Active Case finding will be started. Recruitment of field workers, their sensitization and micro planning has been done.

3. **TB free Rohini Project**

Keeping in mind the target of TB elimination by 2025, a project has been initiated to make Rohini TB free. The project is jointly conducted by IMA Rohini Branch, NDTB Centre and Delhi State TB Department. It started with sensitization of local politicians, Private practitioner and community of Rohini area in the month of March 2019. Further activities have been planned to conduct active case finding in the area, increasing TB notification by private practitioners and utilizing local politicians and community for treatment adherence of detected TB cases.

4. **Drug susceptibility testing of *Mycobacterium tuberculosis* isolates against Isoniazid and Rifampicin using Line probe Assay**

A study was carried out from February 2019 to April 2019 at the Intermediate reference laboratory of New Delhi Tuberculosis Centre, New Delhi, with following objectives:

a) Isolation of *Mycobacterium tuberculosis* from smear negative pulmonary specimens using MGIT liquid culture system. b) Detection of drug resistance to first line anti TB drugs isoniazid and rifampicin using molecular line probe assay.

In this study, 615 sputum samples from Presumptive MDR TB patients belonging to 17 out of 25 Chest Clinics of Delhi were collected in sterile, and leak proof containers and were transported on same day to IRL along with filled requisition form. These samples were decontaminated using NALC-NaOH method. From concentrated sediment, smears were prepared and were stained using Auramine stain. By using Fluorescent microscopy, smears were read as negative and positive. Smear negative samples were further subjected to culture on MGIT 960 system. Confirmed positive cultures were further processed for LPA to detect resistance to first line drugs INH and RIF.

Because of the low sensitivity of sputum microscopy, TB diagnosis is usually confirmed by culture, followed by the identification of the strain and drug susceptibility testing (DST). In this study, LPA was done instead of phenotypic DST which gave results earlier.

5. **Isolation, Identification and Drugs Susceptibility testing of *Mycobactererium tuberculosis* from Extra Pulmonary clinical Specimens**

The laboratory diagnosis of EPTB has always been a challenge. Therefore this study was carried out during the period from 1 February 2019 to 1 May 2019 and samples were collected from presumptive extra pulmonary patients belonging to 17 out of 25 Chest Clinics of Delhi. The objectives of the study were

(A) Isolation of *M. tuberculosis* from extra pulmonary specimen from presumptive TB cases.

- (B) Identification of *M. tuberculosis* using commercial immuno chromatographic assay.
- (C) Detection of drug resistance of first line drugs namely Isoniazid and Rifampicin using molecular LPA.

Specimens were collected and were transported, on the same day of collection to the tuberculosis laboratory along with filled RNTCP request form. These specimens were decontaminated by N-acetyl L- Cysteine Sodium Hydroxide (NALC –NaOH) method and from the concentrated sediments, smears were prepared. The smears were stained with Auramine stain and were read using LED florescent microscopy. From all concentrated sediments, a portion was inoculated on MGIT medium vials, and these vials were incubated in MGIT system. All culture positive samples were then identified as *M.tuberculosis* complex using the immuno chromatographic assay. After identification, the cultures were used to extract DNA and these DNA samples were further processed for first line LPA.

The availability of valid LPA results proved the advantages of molecular test over the conventional method The assay gave interpretable results and detected an additional MDR-TB case

6. Detection of drug resistance for second line anti TB drugs among MDR TB OR Rifampicin resistance case using MGIT liquid culture and drug susceptibility testing

For a better management of drug-resistant cases, early detection of resistance is extremely important so that effective treatment can be prescribed. Rapid drug susceptibility testing plays an important role in the detection and control of MDR/XDR TB. The present study was carried out with the following objectives,

- a) Detection of drug resistance to rifampicin using commercial Xpert MTB/Rif assay among Pulmonary TB suspects
- b) Isolation of *Mycobacterium tuberculosis* from pulmonary specimens using MGIT liquid culture system
- c) Detection of drug resistance for second line drugs using MGIT liquid culture system.

Fresh sputum Samples were collected in sterile and leak proof containers at DMC and transportation was done on same day to IRL along with patient information form. These samples were decontaminated by NALC-NaOH Method. Sediments were used to prepare smears and also for culture inoculation. Fluorescent Microscopy was done using Auramine stain and the smear were read as per RNTCP guidelines.

The BACTEC 960 TB System was used for cultivation of *M. tuberculosis*. For all positive cultures, Identification of *M. tuberculosis* complex was done using MPT64 rapid test. Second line Drug Susceptibility Testing using MGIT 960 system was done using six drugs Kanamycin, Amikacin, Capreomycin, Moxifloxacin, Linezolid and Clofazimine.

This study results showed that liquid culture offers a more sensitive and rapid method for isolation of *M. tuberculosis* and performing susceptibility testing against a variety of first-line and second-line anti tuberculosis drugs

7. **Detection of drug resistance to second line anti TB drugs among Rifampicin resistance TB cases using molecular Line Probe Assay**

The present study was carried out with following objectives

- a) Detection of drug resistance to rifampicin using commercial Xpert MTB Rif assay among pulmonary presumptive TB cases.
- b) Detection of drug resistance to second line injectables and fluoroquinolones using Molecular Line Probe Assay.

Fresh sputum Samples were collected in sterile and leak proof containers at DMC from patients diagnosed as Rifampicin resistance by CBNAAT. Transportation of samples to IRL was done on same day to IRL with patient information form.

NALC-NaOH Method: These samples were decontaminated by NALC-NaOH Method. Sediments were used to prepare smears and also for culture inoculation

Microscopy: Smears were prepared using Grease free slides,. Staining was done using Auramine. Smears were read by using LED fluorescence microscopy as per RNTCP guidelines

Line probe assay; Line probe assay was performed for second line drugs using GenoType MTBDRsl VER 2.0 LPA.

It was observed in this study that second line LPA performed well with excellent reproducibility and high sensitivity and specificity for FLQ and SLID resistance determination. The average reporting turnaround time varied from 2 to 4 days.

(C) **Abstracts submitted for The Union World Lung Health Conference 2018**

1. Model of TB intervention in high burden close setting of prisons in Delhi, India
2. Interim Treatment Outcomes in Drug Resistant Tuberculosis patients on treatment with Newer Drug Regimen in Delhi, India
3. Caring for Tuberculosis in the Homeless population of Delhi, India
4. Treatment Outcomes in Drug Resistance Tuberculosis patients who were offered treatment with Shorter Multi Drug Resistance Tuberculosis Regimen in Delhi, India
5. Tuberculosis sample transportation using Indian Postal Services in Delhi, India

PARTICIPATION IN SCIENTIFIC EVENTS

1. The Union in collaboration with Medical Research Council (MRC), UK and other partners is currently undertaking a large multi-centric, multi-country clinical trial to evaluate the efficacy and safety of short course regimens for treatment of multi-drug resistant TB (MDR-TB). For this purpose they are exploring the possibility of including more sites in India in STREAM stage 2 which includes institutions and laboratory with experience and capacity to undertake the trial. In this context, a team of The Union and MRC visited NDTB Centre from 4-6 April 2018 for seeking the laboratory support.
2. An inter disciplinary meeting for conducting research in various aspects of TB was held in Hamrdard Institutes for Medical Sciences and Research on 16th April, 2018 under the Chairmanship of Dr. Harman, Vice Chancellor (HIMSR). Dr. K.K. Chopra, Director and Dr. M. Hanif, Microbiologist attended the meeting.
3. Ethical Committee meeting of NITRD New Delhi was held on 16th April 2018. Dr. K.K. Chopra, Director attended the meeting as its alternate Chairman. During the meeting, one project was discussed and some changes were suggested for incorporation.
4. A meeting was held with representatives of HUMANA Hamard at New Delhi TB Centre on 1st May 2018 to discuss the project entitled “Optimizing TB case detection and treatment adherence among Homeless Citizens, Delhi”.
5. ECHO clinic was conducted from STDC hub on 2nd May, 2018. The didactic was on ‘Active Case Finding – Delhi experience’ given by Dr Shankar Matta, Epidemiologist, NDTB Centre. This was followed by case presentation by Mr. Sonpreet, STS from Lok Nayak Chest Clinic.
6. Sensitization programme was held for Lady Health Visitor students of Lady Reading Health Centre on 3rd May 2018 in which they were sensitized about disease, treatment and prevention of tuberculosis and role of health visitors in care of TB patients.
7. Delhi State RNTCP has taken the initiative for involvement of pharmacists in notification of TB patients coming to them for Anti Tubercular Therapy. To discuss the activity, the South Delhi branch of Association of Pharmacists and Chemists organised a workshop for involvement of chemists in ‘End TB Strategy’ at PHD Chambers of Commerce on 5th May, 2018. Dr. K.K. Chopra, Director delivered a talk on “TB Notification”.
8. One day multi disciplinary meeting of a project entitled “Clinical evaluation of Unani formulation as Adjunct therapy with ATT in the treatment of pulmonary Tuberculosis: Randomized Controlled study” held on 11th May, 2018 in Jamia Hamdard Institute of Medical Sciences & Research. Dr. K.K. Chopra, Director and Dr. Hanif, Bacteriologist attended the meeting.
9. A CME on “New Diagnostic and Treatment Modalities in TB” was organised by Chest & TB Clinic, GTB Hospital on 16th May, 2018. On this occasion, Dr. K.K. Chopra, Director and Dr.

M. Hanif, Bacteriologist were facilitators. Dr. Chopra delivered lecture on : Treatment of drug sensitive and Drug Resistant TB as per new TOG” and Dr. Hanif delivered a lecture on “Newer Diagnostic Modalities in TB including Gene Sequencing”

10. The Thesis Protocol Presentation of Mr. Vishwanath Upadhyay, Ph.D student (Supervisor Prof. S. K. Sharma), JH-IMM was held on May 17, 2018 in, Jamia Hamdard, Hamdard Nagar, New Delhi on the topic entitled “Prevalence of non tuberculous mycobacterial disease and molecular characterization of identified non tuberculous mycobacterium species among pulmonary TB suspects”. Dr. K.K. Chopra, Director and Dr. M. Hanif, Bacteriologist were members of board to review the thesis presentation.
11. A CME was organised by Department of Pulmonary Medicine, Govt. Medical College & Hospital, Chandigarh on 18th May 2018. Dr. K.K. Chopra, Director was one of the facilitator. He delivered lecture on “Management of TB as per newer TOG “.
12. A meeting was organised in NDTB Centre to discuss the project entitled “Assessing role of old and current TB patient for symptomatic referral” on 21st May, 2018.
13. A meeting was organised in RBIPMT to review ADR of BDR among patients treated in Delhi on 21st May, 2018. Dr. K.K. Chopra, Director attended the meeting.
14. Delhi state RNTCP review meeting was held on 22nd May 2018 in New Delhi TB Centre. Dr. K.K. Chopra, Director, STDC presented the analysis of quarterly reports of 25 chest clinics. Assessment was also given by Dr. Chopra on “BDQ implementation in Delhi state”.
15. Review meeting of the project entitled “Leveraging old TB patients in referring TB symptomatic” was held in STDC on 5th June, 2018. Representatives of J Pal agency (conducting the study), STO Delhi and NDTBC faculty participated in the discussion.
16. Delhi State level RNTCP meeting held on 5th June 2018 in NDTB Centre. Strategy to be adopted for making one DMC TB free in every district was discussed. STO Delhi, WHO consultant and NDTBC faculty participated in the discussion.
17. Delhi State Task Force meeting was held on 8th June 2018 on ECHO platform from Delhi State STDC Hub. During the meeting, Dr.K.K. Chopra, Director delivered a talk on “Role of ECHO in Delhi state”. Medical college nodal officers of their referral units presented their reports and issues related to RNTCP implementation in medical colleges were discussed.
18. ECHO Clinic was conducted on 12th June 2018 from STDC hub regarding ‘End TB Strategy’ in Delhi state. All the DTOs and MOs of chest clinics attended the clinic. Methodology was explained by Dr. K.K. Chopra, Director and Dr. Ashwani Khanna, STO Delhi. Utilization of mobile van for ACF was also discussed with DTOs.
19. A meeting with NGO VIHAAN (working for PL HIV) held in NDTB Centre on 12th June 2018. Project regarding HIV in Transgender was discussed. It was decided to initiate the project from July 2018. Before that, the staff of VIHAAN will be trained for screening of TB at NDTB Centre.

21. A meeting with DG, Tihar jail was held on 19th June 2018 regarding project “Framework of TB care in Tihar Jail”. Dr. K.K. Chopra, Director and Dr. Matta, Epidemiologist attended the meeting. The project details and methodology was discussed with DG and medical staff. DG approved to conduct the study after sensitization of medical and para medical staff of jail authorities.
22. A meeting was held with Dr. Jessica from J Pal regarding the patient referral study at NDTB Centre on 19th June, 2018 and 26th June, 2018. During the meeting, micro-planning to conduct the study was discussed and finalised. Representatives of state, WHO and J Pal field team also participated in the discussion.
23. A meeting at NDTB Centre with Dr. B.K. Vashist and representatives of NGOs working in their district was held on 2nd July 2018. It was decided to review their data as per RNTCP formats.
24. A meeting to conduct the project entitled “Framework of TB care in Prisons” was held on 3rd July 2018 in NDTB Centre . State TB Officer, Delhi state, WHO Consultant, DTO-DDU Hospital and faculty of NDTB Centre participated in the meeting. During the meeting, the methodology to conduct study was discussed.
25. ECHO clinic was conducted from STDC hub on 4th July, 2018. The didactic was given by Dr. Neeti Babbar, Assistant Programme Officer, Delhi state. This was followed by case presentation by Mr. Lalit, STS from BJRM Chest Clinic.
26. ECHO clinic was conducted from STDC hub on 9th July, 2018 regarding Nikshay entries. Chest clinic wise status of Nikshay entries of TB patients, their treatment outcome and DBT to registered patients were discussed.
27. ECHO clinic was conducted from STDC, Delhi state hub regarding status of Nikshay on 11th July 2018 chest clinic wise status of Nikshay entries of DRTB patients, their treatment outcome and DBT to registered patients were discussed for the period from January to June, 2018. Issues related to Nikshay software were discussed and resolved with helpdesk at CTD.
28. Ethical committee meeting of NITRD was held on 12th July 2018. Dr. K.K. Chopra, Director attended the meeting as Vice Chairman. Three research projects were discussed during the meeting; one was approved and two were sent for modifications.
29. Pediatric department of National Institute of TB & Respiratory Diseases(NITRD), New Delhi organized the 3rd Paediatric TB Update-2018 where all the recent changes and Guidelines in the Management of Pediatric TB were discussed. During the meeting, Dr. K.K. Chopra, Director chaired the session on pediatric TB.
30. CTD is planning to develop e-training curriculum on different thematic areas “Laboratory Diagnostics”, ”PSS tool kit” and “PMDT module” with support of NRLs, WHO and FIND under USAID supported Challenge TB project. In this context, a consultative workshop was held at NTI Bangalore on 19th to 20th July 2018. Dr. M. Hanif, Bacteriologist attended the workshop.



'Its Time' World TB Day Theme



Inauguration of DOT Centre in Private Hospital



'Total Health' Programme on DD News Channel



Inauguration of TB Free Delhi Campaign

During the workshop, efforts were made by participants who worked in groups to convert the existing laboratory training materials into e-training modules. Also, in continuation to the consultative workshop conducted at NTI, second workshop was held on 29.7.2018 at NITRD, Delhi where some pending work from the first workshop was completed.

31. A sensitization programme for medical officers of Tihar Jail was organized on 19th July 2018 in auditorium of Tihar Jail. Dr. K.K Chopra, Director and Dr. Shanker Matta, Epidemiologist delivered lecture on Management of TB under RNTCP as per new guidelines. They also briefed about upcoming project “To develop operational framework for TB care in Jail”. Similar sensitization was held for second batch of medical Officers on 20th July 2018 and for para medical staff on 27th July 2018.
32. GLRA (NGO) organized TB sensitization programme for peer educators in Sanjay Gandhi Transport Nagar on 21st July 2018 with Apollo Health Care Foundation. Dr. K.K. Chopra, Director discussed with them their role in identification of TB symptomatics and to work as DOT Provider. About 45 peer educators attended the programme.
33. A meeting to roll out Pilot Project to study use of postal services for transport of biological specimen in Delhi was conducted in NDTB Centre on 24th July 2018. Representative from Central TB Division, WHO and Delhi state TB Cell participated in the discussion. It was decided to roll out project from August 2018 to analyse time in transportation of samples from seven DMCs of Karawal Nagar Chest Clinic to NDTB Centre laboratory and reports from NDTB Centre to Karawal Nagar Chest Clinic for 100 cases will be assessed.
34. Presentation of project “Prevalence of NTM in Delhi and to identify the risk factors” was done in ICMR on 27th July 2018. Dr. K.K. Chopra, Director and Dr. M. Hanif, Microbiologist participated in the discussion.
35. “Pulmoncon” – two days conference for pulmonary and general physicians organised by East Delhi Physicians Association on 28th and 29th July, 2018. Dr. K.K. Chopra, Director delivered a lecture on “How to manage a new case of pulmonary tuberculosis”
36. ECHO clinic was conducted from STDC hub on 1st August, 2018. The didactic was on ‘Sensitization about JEET project’ given by Dr. K.K. Chopra, Director-NDTBC.
37. “Best of Chest 2017” was organised by Cipla in Delhi on 5th August 2018. Dr. K.K. Chopra, Director attended the event and chaired a session on ‘Tuberculosis’.
38. A meeting to discuss the “Warm line TB Project” was held in NDTB Centre on 7th August, 2018. Representatives from WHO, State TB Cell and faculty of NDTB Centre attended the meeting.
39. A meeting to update activities of project JEET (Joint Efforts to Eliminate TB) and Project AKSHYA was held in STO Office on 7th August, 2018. Dr. K.K. Chopra, Director and Dr. Khanna, State TB Officer, Delhi reviewed the progress of the projects and suggested changes. Project JEET and Akshya team presented the ongoing and upcoming activities of the project.

40. A meeting to discuss the project “Isolation of DNA from stained slides to confirm MDR-XDR strains” to be conducted at AIIMS was held on 9th August 2018 in office of STO Delhi. Dr. K.K. Chopra, Director and Dr. M. Hanif, Microbiologist attended the meeting.
41. A CME was organised in Cantonment Hospital, Delhi Cantt on 14th August, 2018. The Doctors of various specialities of the hospital attended the CME. Dr.K.K. Chopra, Director delivered a lecture on ‘Diagnosis and Management of drug sensitive and drug resistant TB’. About 30 faculty members and doctors attended the CME.
42. A CME was organised in BJRM Chest Clinic on 16th August, 2018. The medical officers of Dispensary of North West district attended the CME. Dr.K.K. Chopra, Director delivered a lecture on ‘Management of TB’. About 25 faculty members and doctors attended the CME.
43. Delhi State PMDT Committee meeting was held on 20th August 2018 in STDC Delhi. Dr. K.K. Chopra, Director attended the meeting and talk was on WHO rapid communication regarding MDR TB.
44. Ethical committee meeting of NITRD was held on 20th August 2018. Dr. K.K. Chopra, Director attended the meeting. Three protocols of faculty members were discussed.
45. A meeting of national level MDR TB Management group was held on 21st August 2018 where discussion was held on rapid communication for management of MDR cases was held. Dr. K.K. Chopra, Director attended the meeting.
46. A CME was organised in Lady Hardinge Medical College on 24th August, 2018. Dr.K.K. Chopra, Director delivered a lecture on ‘Newer Diagnosis Tools of TB and TB Notification’. About 70 doctors attended the CME.
47. A CME was organised in Hindu Rao Hosital on 28th August, 2018. Dr. M. Hanif, Microbiologist attended the CME and delivered a lecture on ‘Diagnosis of TB as per new TOG guidelines’.
48. Two days workshop was organised for faculty of medical colleges and district level DRTB committee members on 28th and 29th August 2018 in Ahmadabad, Gujarat. Dr. K.K. Chopra, Director was invited as faculty. He delivered lectures on ‘Pre-treatment evaluation’, ‘Patient flow in management of drug resistant cases’, ‘Management of DRTB in special situations’ and ‘Nikshay Entries at different levels in management of DR TB Cases’.
49. Ethical committee meeting of NITRD was held on 29th and 30th August 2018. Dr. K.K. Chopra, Director attended the meeting as its Chairman. 17 protocols of DNB students were discussed and approved.
50. Pearls for practice on TB challenges and opportunities was organised in Delhi Medical Association, Daryaganj. This is a series of six CMEs (every Saturday) for members of Delhi Medical Association. Dr. Chopra attended the first inaugural session.
51. ECHO clinic was conducted from STDC hub on 5th September, 2018. The didactic was on ‘Sensitization about TB in schools’ given by Dr. Shanker Matta, Epidemiologist-NDTBC.

52. Ethical committee meeting of NITRD was held on 6th September 2018. Dr. K.K. Chopra, Director attended the meeting as its chairman. Seven research projects were discussed and approved during the meeting.
53. As part of 'Pearls for practice on TB' series, a session was held on 8th September 2018 in DMA Hall. Dr. K.K Chopra, Director delivered a talk on "Treatment of drug sensitization about TB and notification". He also briefed about project "Delhi Cumulative Consultative" to be started from NDTB Centre.
54. Delhi State PMDT review meeting was held on 10th September 2018 in STDC Delhi. Dr. K.K. Chopra, Director and State TB Officer, Delhi state reviewed the performance of DRTB Centres and culture DST labs of Delhi state. Dr. M. Hanif, Bacteriologist presented the brief on activities of IRL Delhi.
55. Ethical committee meeting of NITRD was held on 12th September 2018. Dr. K.K. Chopra, Director attended the meeting as its chairman. Seven research projects of DNB students were discussed and approved during the meeting.
56. A project to assess role of postal services in sputum sample transportation from Karawal Nagar district to NDTB Centre laboratory was launched in Delhi on 19th September 2019. Dr. K.K. Chopra, Director and Dr. M. Hanif, Microbiologist attended the meeting.
57. To design the protocol for "Whole Genome Sequencing" a workshop was held in Delhi from 18th to 19th September 2018. Dr. Hanif, Microbiologist attended the workshop.
58. ECHO clinic was conducted from STDC hub on 26th September, 2018. The Clinic was mainly on 'Nikshay Version – 2' launch.
59. The Ministry of Health & FW conducted the capacity building workshop on "Whole Genome Sequencing" in Mumbai from 24th to 28th September 2018. Dr. Zeeshan, Microbiologist and Mr. Parveen, Laboratory Technician attended the workshop.
60. The project entitled "To develop operational framework for TB care in Jail" has been started in Tihar Jail. In this connection, a sensitization programme for medical officers of Tihar Jail was organized on 13th September 2018 in auditorium of Tihar Jail. Dr. K.K Chopra, Director and Dr. Shanker Matta, Epidemiologist delivered lecture on Management of TB under RNTCP as per new guidelines. Similar sensitization was held for para medical staff on 28th September 2018.
61. A CME on "Newer Guidelines of Managing TB & MDR TB Cases" was organised in RML Hospital on 1st October, 2018. The Doctors of various specialties of the hospital attended the CME. Dr.K.K. Chopra, Director delivered a lecture on 'Treatment of TB and DRTB'.
62. TB seal campaign organised by TB Association of India was held in President House on 2nd October 2018 where the Hon'ble President of India inaugurated the TB Seal campaign. The faculty of NDTB Centre attended the function.

63. ECHO clinic was conducted from STDC hub on 3rd October, 2018. The didactic was on 'Nikshaya Version 2 and changes in DBT format' given by Dr. K.K. Chopra, Director-NDTBC.
64. ASHA workers training for Active Case Finding as part of 'End TB Strategy' were held on 4th October 2018 at NDMC Chest Clinic. During the training, Dr. K.K. Chopra delivered a talk. Similar trainings were held at R.K. Mission Chest Clinic on 26th September 2018 and Kingsway Chest Clinic on 27th September 2018.
65. One day RNTCP Core Committee meeting was held on 8th October, 2018 in Jamia Hamdard Institute of Medical Sciences & Research. Dr. K.K. Chopra, Director and Dr. Hanif, Bacteriologist attended the meeting.
66. Shri Anil Baijal, Hon'ble Lt. Governor, Delhi inaugurated the 69th TB Seal Sale Campaign for the National Capital Territory of Delhi on Wednesday, October 10, 2018 at Raj Niwas, Delhi. Dr. K.K. Chopra, Director attended the campaign.
67. Dr. M. Hanif, Bacteriologist has attended a meeting of National Expert group on diagnosis of tuberculosis (NTEG – Diagnosis) under RNTCP on 23.10.2018 at Lalit Hotel, New Delhi. Issues related to HR, Equipment maintenance, procurement of chemicals and consumables required at IRLs and NRLs were discussed in the meeting.
68. A CME was organised in SDN Hospital, Shahdara, Delhi on 2nd November, 2018. The Doctors of various specialities of the hospital attended the CME. Dr.K.K. Chopra, Director delivered a lecture on 'Treatment of Drug Sensitive & Drug Resistant TB based on new guidelines" and Mr. Zeeshan, Microbiologist delivered a lecture on "Newer Diagnostic Modalities in TB including Gene Sequencing".
69. Delhi Society for Promotion of Rational Use of Drugs organised 5 days workshop for nurses from 29th October to 2nd November 2018. Dr.K.K. Chopra, Director delivered a lecture on 'Role of nurses in prevention of TB'.
70. Review meeting of PhD project of student of Hamdard Institute of Medical Sciences was held on 6th November 2018. The topic of thesis was "Prevalence of NTM in Northern India and its risk factors". Dr. K.K. Chopra, Director and Dr. Hanif, Bacteriologist attended the meeting.
71. TB Association of Andhra Pradesh organized 36th Andhra Pradesh TB & Chest Diseases Conference at AMC, Madanapally, Chittoor District on 10th and 11th November, 2018. Dr. K.K. Chopra, Director received oration during the conference. The topic of oration was "Drug resistance in TB and its clinical implication".
72. ECHO clinic was conducted from STDC hub on 14TH September, 2018. During the clinic the update on activities of project JEET (Joint Efforts to Eliminate TB) was discussed. Dr. K.K. Chopra, Director and Dr. Khanna, State TB Officer, Delhi reviewed the progress of the projects and suggested changes. Project JEET and Akshya team presented the ongoing and upcoming activities of the project. Representatives of CTD, DTOs, MOs, paramedical staff RNTCP Delhi attended the clinic.

73. Ethical committee meeting of RBIPMT was held on 15th November 2018. Dr. M. Hanif, Bacteriologist attended the meeting as its member.
74. The Union and Medanta Medcity organised a workshop of “National Consultation on Multi-Sectoral Engagement for a TB Free India” on 26th November, 2018 in New Delhi. Dr. K.K. Chopra, Director was invited to deliver a talk on “Epidemiology of TB – towards TB free India” and was panellist on panel discussion on “Paradigm shift in diagnosis of TB with CBNAAT”.
75. ASHA workers training for Active Case Finding as part of ‘End TB Strategy’ were held on 29th November 2018 at Shastri Park Chest Clinic. During the training, Dr. K.K. Chopra delivered a talk.
76. Lady Hardinge Medical College has organised a core Committee meeting on RNTCP on 5th December, 2018. Dr. K.K. Chopra, Director attended the meeting and delivered a lecture on “TB Notification”.
77. ECHO clinic was conducted from STDC hub on 5th December, 2018. The didactic was on Nikshaya V2 trainings. Representatives of CTD, DTOs, MOs, paramedical staff of RNTCP Delhi attended the clinic.
78. Delhi State Task Force meeting was held on 7th December 2018 in Army Medical College. Faculty of NDTB Centre participated in the meeting as its members. Dr. K.K. Chopra, Director delivered a lecture on ‘Role of medical college in universal drug susceptibility testing’.
79. Ethical committee meeting of NITRD was held on 19th December 2018. Dr. K.K. Chopra, Director attended the meeting as its Chairman. Eight protocols were discussed and approved.
80. Representatives from Manav Rachna International Institute of Research and Studies visited the Centre on 20th December 2018 for discussion with Director and Bacteriologist of NDTB Centre for collaborative studies for their students in laboratory of NDTB Centre.
81. A CME under JEET Project was organised by District Health Society (North-West) on 28th December 2018. Dr. K.K. Chopra, Director attended the CME and delivered a lecture on “TB Notification”.
82. Dr. M. Hanif, Bacteriologist attended a meeting at Central TB Division on 31st December 2018 to develop and approve technical specifications of TrueNAT MTB Chips.
83. ECHO clinic was conducted from STDC hub on 3rd January, 2019. The didactic was on DBT to patients as Nutritional support given by Dr. K.K. Chopra, Director-NDTBC.
84. A CME under JEET Project was organised at Sir Ganga Ram Hospital on 3rd January 2019. Dr. K.K. Chopra, Director attended the CME and delivered a lecture on “TB treatment under RNTCP”.
85. 73rd NATCON was held from 4th to 6th January 2019 at Nagpur. Dr. K.K. Chopra, Director, Dr.

M. Hanif, Microbiologist and Dr. Shankar Matta, Epidemiologist attended the NATCON. The main highlights during conference are as under :

- Dr. K.K. Chopra, Director prepared and coordinated scientific programme.
 - Dr. K.K. Chopra and Dr. M. Hanif participated in panel discussion on “Management of MDR TB – Practical points”.
 - Dr. K.K. Chopra and Dr. M. Hanif participated in panel discussion on “Can Genotype tests replace phenotypic”
 - Dr. K.K. Chopra was a judge for poster presentation session
 - Dr. K.K. Chopra chaired two scientific sessions.
 - Dr. K.K. Chopra attended editorial board and state secretaries meeting.
86. Delhi state RNTCP review meeting was held on 16th January 2019 in New Delhi TB Centre. Dr. K.K. Chopra, Director, STDC presented the analysis of quarterly reports of 25 chest clinics. Various activities of RNTCP were discussed including challenge in tuberculosis management and Nikshay Entries.
87. NIRT, Chennai in collaboration with CDC Atlanta, USA has initiated a project for which CTD has approved sample collection from selected labs across the country to NIRT. In this regard, NIRT is conducting a sensitization workshop for microbiologist from all these labs at NITRD, New Delhi on 21st January 2019. Mr. Zeeshan, Microbiologist has attended the workshop.
88. RNTCP Regional Review Meeting (West Region) was held from 23rd January to 25th January 2019 at Mumbai, Maharashtra. Dr. K.K. Chopra, Director and Dr. M. Hanif, Microbiologist attended the meeting.
89. ECHO clinic was conducted from STDC hub on 30th January, 2019. The status of Nikshay activities in light of Regional RNTCP review meeting was discussed during the Clinic by Dr. K.K. Chopra, Director-NDTBC and Dr. Ashwani Khanna, STO Delhi.
90. A CME was organized under JEET project in Maharaja Agarsen Hospital, Punjabi Bagh, Delhi on 19th February 2019. Dr. K.K Chopra, Director attended the CME and delivered a lecture on “Management of TB and TB notification”.
91. Dr. M. Hanif, Bacteriologist attended a initial stakeholders’ meeting organized by CTD, in coordination with FIND India, on 22nd Feb 2019 at NTI Bangalore for initiating preparatory activities towards NABL accreditation using TB SLMTA approach (Sustainable Management of TB Labs Towards Accreditation) for identified TB C&DST laboratories.
92. Delhi State Operational Research Committee meeting was held on 25th February 2019 in NDTB Centre. Faculty of the Centre participated in the meeting. New and old OR proposals were presented and discussed. Dr. K.K Chopra, Director present the status of ongoing study (Framework of TB care in prison) in NDTB Centre.
93. Dr. M. Hanif, Bacteriologist attended 1st meeting of the Technical Committee held at TB

Association of India. under the chairmanship of Dr Somashekhar, Director, NTI on 28th February, for finalization and approval of the “Guideline for condemnation & replacement of TB Lab equipment” with the approval of competent authority.

94. Examination of DNB students were held at NITRD on 11th March, 2019. Dr. K.K. Chopra, Director was the examiner for the said practical examination.
95. World TB Week was organised all over India during the month of March 2019. The theme for this year is “It’s time”. On this occasion, CMEs/Workshops were organised in different chest clinics and hospitals of Delhi. Dr. K.K Chopra, Director was invited for these CMEs and he delivered a lecture on “Management of TB and TB notification” and “Status of TB Control in Delhi state”. The details is visits are as under :
 - a) CME in BJRM Hospital on 12th March 2019.
 - b) CME in Batra Hospital on 14th March 2019.
 - c) CME in RTRM Hospital on 15th March 2019.
 - d) CME in Rohini Chest Clinic on 19th March 2019.
 - e) CME in NDTBC on 20th March 2019.
 - f) CME in RML Hospital on 25th March 2019.
 - g) CME in BL Kapoor Hospital on 27th March 2019.
 - h) CME in Rohini West Zone Chest Clinic Hospital on 30th March 2019.
96. TB Free India campaign was organised in Rohini Zone on 16th March 2019. During the occasion Dr. K.K Chopra, Director delivered a lecture on “Management of TB and TB notification”.
97. During the occasion of World TB Day, Dr. K.K. Chopra, Director delivered Live Talk on DD News on “Tuberculosis”.
98. On occasion of World TB Day, Indian Medical Association organised a function. Dr. K.K. Chopra, Director participated in the programme.
99. World TB Day event was organised by WHO on 25th March 2019. Dr. K.K. Chopra, Director participated in the programme. During the function, special issue of Indian JI of Tuberculosis on theme “End TB Strategy” was released.
100. CME was organised in Karawal Nagar chest clinics. Dr. Shankar Matta, Epidemiologist delivered a lecture on “Management of TB”.
101. Zonal Task Force workshop 2019 for North Zone was held from 28th to 29th of March 2019 at AIIMS Rishikesh, Uttarakhand. During three days, capacity buildings as well as the discussion on draft proposals from the various states were made. Dr. K.K. Chopra, Director attended the workshop.

MEETINGS

1. A sub-committee meeting of Delhi TB Association was held on 27th April 2018 to discuss the issues regarding maintenance of their building. Dr. K.K. Chopra, Director participated as one of its member.
2. The Department Promotion Committee meeting of NDTB Centre was held on 18th July, 2018 in the office of Joint Secretary (Health). The case of group A doctor was discussed and approved by the Committee.
3. A meeting of MACP committee of NDTB Centre was held on 8th August, 2018 in NDTB Centre where 3 cases of staff were discussed and approved.
4. Meeting of Managing Committee of New Delhi TB Centre was held on 10th October 2018 in conference room of NDTB Centre under the chairmanship of Dr. L.S. Chauhan. Various issues related to general administration were discussed during the meeting.
5. A meeting was held with the team of Manav Rachna University on 11th October 2018 regarding collaborative research projects and training activities.



TB Sensitization Workshop in a Corporate Hospital in Delhi

6. Dr. Hanif, Bacteriologist has attended a meeting of committee for validating the quantification of consumables for NRTPC laboratories under RNTCP. This meeting held at Central TB Division on 17th October 2018.
7. A meeting to select orations of 73rd NATCON 2018 was held in TB Association of India on 5.11.2018. Dr. K.K. Chopra, Director attended the meeting as one of the member of the committee. Awardees for different oration and awards were selected during the meeting.
8. One day workshop on experience sharing of newer drugs and regimens of Northern Zone was held in Delhi on 15th November 2018. Various issues related to newer drugs uses and problems faced by Nodal DR Centres were discussed. Dr. K.K. Chopra, Director chaired a session.
9. Dr. M. Hanif, Bacteriologist attended second meeting of National Technical Expert group (Diagnosis) held on 11.12.2018 at NACO Office, New Delhi.
10. State TB Forum meeting of Delhi RNTCP was held on 20th December 2018 in Delhi Secretariat under the chairmanship of Shri Sanjeev Khirwar, Secretary, H&F, GNCTD. Dr. K.K. Chopra, Director attended the meeting as member of State TB Forum Committee.
11. Dr. M. Hanif, Bacteriologist attended a technical committee meeting at VPCI as a external expert to develop specifications for establishment of BSL III laboratory.
12. Ethical committee meeting of NITRD was held on 28th January 2019. Dr. K.K. Chopra, Director attended the meeting as its chairman. One research project was discussed and approved during the meeting.
13. Ethical Committee meeting of NITRD New Delhi was held on 4th February 2019. Dr. K.K. Chopra, Director chaired the meeting. During the meeting, six projects were discussed, out of which 4 projects were approved and some changes were suggested for incorporation in remaining 2 projects.
14. Dr. K.K. Chopra (Director) participated in the meeting of TB Association of India on 1st March 2019. During the meeting, TB Seal awards for the year was discussed and finalized.

TRAININGS

1. The two days training programme on revised guidelines of PMDT for Medical Officers of chest clinics of Delhi state was conducted from 9th to 10th April, 2018. Similar training was also conducted from 12th to 13th April, 2018.
2. One day training session was held for Microbiologists and Laboratory Technicians of Hamdard Institute of Medical Sciences and Research, Delhi regarding testing of CBNAAT on 10th April, 2018. One microbiologist and three LTs attended the session.
3. A one day training for DTOs and DEOs of Delhi state for implementing GoI guidelines for DBT for nutritional support to TB patients w.e.f April 1, 2018 was organized by RNTCP at New Delhi TB Centre. Similar training was also conducted on 23rd April, 2018.
4. Sensitization programme held for nursing students from Vellore, South India on 12th April 2018. 32 nursing students attended the training in which they were sensitized about disease, treatment and prevention of tuberculosis and role of nurses in care of TB patients. Dr. Shanker Matta, Epidemiologist and Mrs. Gurpreet, Public Health Nurse facilitated the training programme.
5. A one day training programme on revised guidelines of PMDT for STS of chest clinics of Delhi state was conducted on 16th and 17th April, 2018. Similar training was also conducted for STLS on 19th and 20th April, 2018.
6. Health workers of NGO GLRA working in field area of Sanjay Gandhi Transport Nagar were sensitized about newer PMDT guidelines on 23rd April, 2018.
7. The Sensitization programme for Medical Officers of Dr. N.C.Joshi Memorial Hospital on New Diagnostics and TB Regimen was held on 27th April, 2018. Dr. K.K. Chopra, Director delivered a lecture on sensitization of new Diagnostics & TB Regimen during this occasion.
8. One day retraining workshop was conducted on 2nd August 2018 in NDTB Centre for STLS working in Delhi RNTCP to update their knowledge about recent developments. Similar workshop was conducted for STS on 3rd August and for 8 batches of LTs on 6th, 8th, 13th, 16th, 20th, 23rd, 27th and 30th August 2018.
9. Sensitization programme held for nursing students from Lady Reading Health School on 14th September 2018. 21 LHV students attended the training in which they were sensitized about disease, treatment and prevention of tuberculosis and role of nurses in care of TB patients. Dr. Shanker Matta, Epidemiologist and Mrs. Gurpreet, Public Health Nurse facilitated the training programme.
10. Asha workers training for Active Case Finding as part of 'End TB Strategy' were held on 25th September 2018 at Rohini Chest Clinic. During the training, Dr. K.K. Chopra delivered a



TB Sensitization of Doctors of a Private Sector Hospital



Clinical Training of Interns in OPD of NDTB Centre



TB Sensitization of Nursing Staff of Colleges of Delhi



Sensitization of Staff and Students of a Para - medical Institute in Delhi

talk. Similar trainings were held at R.K. Mission Chest Clinic on 26th September 2018 and Kingsway Chest Clinic on 27th September 2018.

11. Sensitization programme held for B.Sc nursing students from Galgotia College of Nursing on 4th October 2018. 36 4th year B.Sc Nursing students attended the training in which they were sensitized about disease, treatment and prevention of tuberculosis and role of nurses in care of TB patients. Dr. Shanker Matta, Epidemiologist and Mrs. Gurpreet, Public Health Nurse facilitated the training programme.
12. One day training workshop on CBNAAT was organised on 15th October 2018 in laboratory of NDTB Centre. 2 Laboratory Technicians and 1 faculty member from Microbiology department of HIMSER attended the training.
13. A team comprising of Dr. Sarah Sengstake and Christal Dersmarez from Institute of Tropical Medicine, Antwerp, Belgium visited our laboratory from 22nd to 26th October 2018. The purpose of the visit was to train our laboratory personnel in few laboratory techniques to be used in STREAM trail for which our laboratory is being selected as one of the study sites.
14. RNTCP has launched Nikshay Version 2 for TB patients' records and DST of nutritional support incentive to patients. Training of all the categories of RNTCP, Delhi state staff was organized at STDC on following dates :
 - For STLS on 22.10.2018 and 23.10.2018
 - For MOs on 25.10.2018 and 26.10.2018
 - For PMDT Coordinators on 31.10.2018
15. Delhi Society for rationale use of drugs conducted a five days certificate course for nurses of government and private hospitals. Dr. K.K. Chopra, Director delivered a talk on "Role of Nurses in prevention of TB".
16. Sensitization programme held for B.Sc nursing students from Holy Family College of Nursing on 29th October 2018. 81 LHV students attended the training in which they were sensitized about disease, treatment and prevention of tuberculosis and role of nurses in care of TB patients. Dr. Shanker Matta, Epidemiologist and Mrs. Gurpreet, Public Health Nurse facilitated the training programme.
17. Nikshay Version 2 training of DTOs, Medical Officers, STSs, STLSs, Statistical Assistant, District PMDT and TB/HIV Coordinators & DEOs under Delhi State RNTCP was held at NDTB Centre on following dates :
 - 1st November 2018 for Data Entry operators
 - 2nd November for DTOs
 - 8th November, 2018 for STS
 - 9th November 2018 for STS

18. Sensitization programme held for nursing students from RAK College of Nursing on 18th November 2018. Nursing students were sensitized about disease, treatment and prevention of tuberculosis and role of nurses in care of TB patients. Dr. Shanker Matta, Epidemiologist and Mrs. Gurpreet, Public Health Nurse facilitated the training programme.
19. Sensitization programme was held with Cyan International for TB cured patients and their families on 19th and 29th November 2018. They were sensitized about disease, treatment and prevention of tuberculosis and role of nurses in care of TB patients. Dr. Shanker Matta, Epidemiologist and Mrs. Gurpreet, Public Health Nurse facilitated the training programme.
20. Training on “Procurement & Supply Chain and Nikshay Aushadhi” for DTOs, Medical Officers, STSs, Statistical Assistant, District PMDT and TB/HIV Coordinators & DEOs under Delhi State RNTCP were held in NDTB Centre on following dates :
 - For DTOs on 4.12.2018
 - For MOs on 5.12.2018 & 6.12.2018
 - For STS on 11.12.2018 & 12.12.2018
 - For DEO on 18.12.2018
 - For TB/HIV Coordinators on 20.12.2018
21. Ten days training was held for Call Centre Executives from 17th to 28th December, 2018 in NDTB Centre. The call Centre executives will provide comprehensive sets of services for citizens, TB patients, public and private health care providers. They were trained to facilitate TB notification, Counselling, linking service delivery and patient support services.
22. Dr. M. Hanif, Bacteriologist attended two days training of Trainers in liquid culture & DST organised at JALMA Agra on 18th and 19th December 2018.
23. Sensitization workshop on tuberculosis programme under RNTCP was held on 8th January 2019 for Nursing Students of Nightingale College of Nursing (4th year GNM nursing students). They were sensitized about care of TB patients under RNTCP in detail i.e. TB as a disease, treatment modalities etc. and also role of nurse for care of TB patients.
24. Sensitization workshop on tuberculosis programme under RNTCP was held on 16th January 2019 for Lady Reading Health School followed by posting at Laboratory, Mantoux Room, DOTS Centre for observation visit on 17th January, 2019. Both the above activities were a great success adding to knowledge of students.
25. A meeting was organized at FIND Office on 21st and 22nd January 2019 with Empower School of Health (partner identified by Union) for E-training content development. Dr. Kaushal Kr. Diwedi, Microbiologist has attended the workshop.

26. Sensitization workshop on tuberculosis programme under RNTCP was held on 7th February 2019 for Lady Health Visitor students of Lady Reading Health School. They were sensitized about care of TB patients under RNTCP in detail i.e. TB as a disease, treatment modalities etc. and also role of nurse for care of TB patients. Total 21 students attended the programme.
27. Sensitization workshop on tuberculosis programme under RNTCP was held on 8th February 2019 for B.Sc Nursing Students of Galgotias CON. A total of 23 students were sensitized about role of nurses in care of TB patients, prevention and control etc.
28. Two days workshop on Laboratory Information Management System (LIMS) was organized by Central TB Division and FIND on 11th & 12th February 2019 in NDTB Centre. All the technical staff of laboratory attended the workshop.
29. One day workshop on EQA of CBNAAT conducted at NDTB Centre. 20 STLS attended the workshop. Representatives of Cepheid also attended the workshop and sensitized the RNTCP staff about general maintenance of CBNAAT machine. Similar workshops were also held for all laboratory technicians working under RTNCP in Delhi state on 19.2.2019, 21.2.2019, 22.2.2019 and 26.2.2019.
30. Nursing students from College of Nursing, Dr. Vithal Rao Patil Foundation, Ahmednagar comprising of 4th year B.Sc and 3rd year GNM students attended a sensitization programme on RNTCP, TB – a disease, its treatment, prevention and control, Role of nurse for care of TB patients. Total 61 students attended the programme.

MOBILE VAN

1. Delhi state has received a mobile van with CBNAAT facility. During ECHO clinic on 12th June, 2018 it was decided to place the van in different chest clinics on rotation basis and to be used by DTOs for community awareness and TB screening. During the year, the rotation wise mobile van was sent to following chest clinics :

S.No.	Date of Visits	Chest Clinic
1	13/06/2018	BJRM Chest Clinic
2	19/06/2018	RBTB Chest Clinic
3	21/06/2018	Nehru Nagar Chest Clinic
4	25/06/2018	Narela Chest Clinic
5	26/06/2018	Narela Chest Clinic
6	28/06/2018	BSA Chest Clinic
7	29/06/2018	BSA Chest Clinic
8	02/07/2018	Nehru Nagar Chest Clinic
9	05/07/2018	GTB Hospital
10	06/07/2018	GTB Hospital
11	11/07/2018	JPC Shastri Park Chest Clinic
12	12/07/2018	JPC Shastri Park Chest Clinic
13	18/07/2018	Hedgewar Chest Clinic
14	19/07/2018	Hedgewar Chest Clinic
15	25/07/2018	Karawal Nagar Chest Clinic
16	26/07/2018	Karawal Nagar Chest Clinic
17	02/8/2018	Ch Des raj Chest Clinic
18	03/8/2018	Ch Des raj Chest Clinic
19	10/8/2018	Gulabi Bagh Chest Clinic
20	23/8/2018	Malviya Nagar Chest Clinic
21	24/8/2018	Malviya Nagar Chest Clinic
22	06/9/2018	BJRM Chest Clinic
23	07/9/2018	BJRM Chest Clinic
24	13/9/2019	RBTB Chest Clinic
25	14/9/2019	RBTB Chest Clinic

S.No.	Date of Visits	Chest Clinic
26	19/9/2019	Nehru Nagar Chest Clinic
27	20/9/2019	Nehru Nagar Chest Clinic
28	27/9/2019	Narela Chest Clinic
29	4/10/2018	Nehru Nagar Chest Clinic
30	5/10/2018	Nehru Nagar Chest Clinic
31	11/10/2018	GTB Hospital
32	12/10/2018	GTB Hospital
33	31/10/2018	Shastri Park Chest Clinic
34	14/11/2018	JPC Chest Clinic
35	15/11/2018	Hedgewar Chest Clinic
36	16/11/2018	Hedgewar Chest Clinic
37	30/11/2018	BSA Chest Clinic
38	6/12/2018	Ch. Des Raj Chest Clinic
39	7/12/2018	Ch. Des Raj Chest Clinic
40	13/12/2018	Moti Nagar Chest Clinic
41	14/12/2018	Moti Nagar Chest Clinic
42	17/12/2018	RBTB Chest Clinic
43	18/12/2018	RBTB Chest Clinic
44	20/12/2018	Gulab Bagh Chest Clinic
45	21/12/2018	Gulabi Bagh Chest Clinic
46	31/12/2018	BJRM Chest Clinic
47	01/1/2019	BJRM Chest Clinic
48	03/1/2019	Sanjay Gandhi Chest Clinic
49	04/1/2019	Sanjay Gandhi Chest Clinic
50	10/1/2019	Malviya Nagar Chest Clinic
51	11/1/2019	Malviya Nagar Chest Clinic
52	14/1/2019	Karawal Nagar Chest Clinic
53	1/2/2019	Karawal Nagar Chest Clinic
54	11/2/2019	Nehru Nagar Chest Clinic
55	12/2/2019	Nehru Nagar Chest Clinic
56	14/2/2019	Narela Chest Clinic
57	15/2/2019	Narela Chest Clinic

CLINICAL SECTION

The Clinical Section is an integral part of NDTB Centre since 1940, when it was started as a Model TB Clinic. It is reputed as a *Super-specialty referral OPD* for all complicated and difficult cases within the State and neighbouring states of Delhi.



Although, it is an OPD within a State-level TB Centre, we have a vast influx of patients with diverse pulmonary conditions, ranging from Asthma, COPD, Pneumonia, ILD, ABPA, Sarcoidosis, Pulmonary hydatidosis and Malignancy, along with all cases of undiagnosed, extra pulmonary TB as well. The OPD runs on a daily basis (six days a week), from 9:00 a.m. to 1:00 p.m. along with the radiological department and pharmacy.

In the last year, there has been a 100% rise in the OPD attendance as compared to 2013-14 as the base year, with a total of 23731 patients seen and managed.

A special COAD clinic is run by the clinical section. It provides solutions and relief to patients of airway obstruction on an OPD basis. There has been a *four-fold increase* in the number of patients managed in the last year (total of 1293) as compared to 2013-14 as the base year.

In addition to patient care, the clinical section has a *key role in providing hands-on training and teaching to medical and Para-medical staff*, with opportunities for professional development. In the last one year, *163 MBBS under-graduates and 52 TB HV students* have been trained here. They attended regular teaching activities, including *20 seminars and 60 clinical case discussions, 60 Journal Reviews and 25 Case Reviews*. Pulmonary Rehabilitation was the key focus area for the doctors of the clinical section in this year.

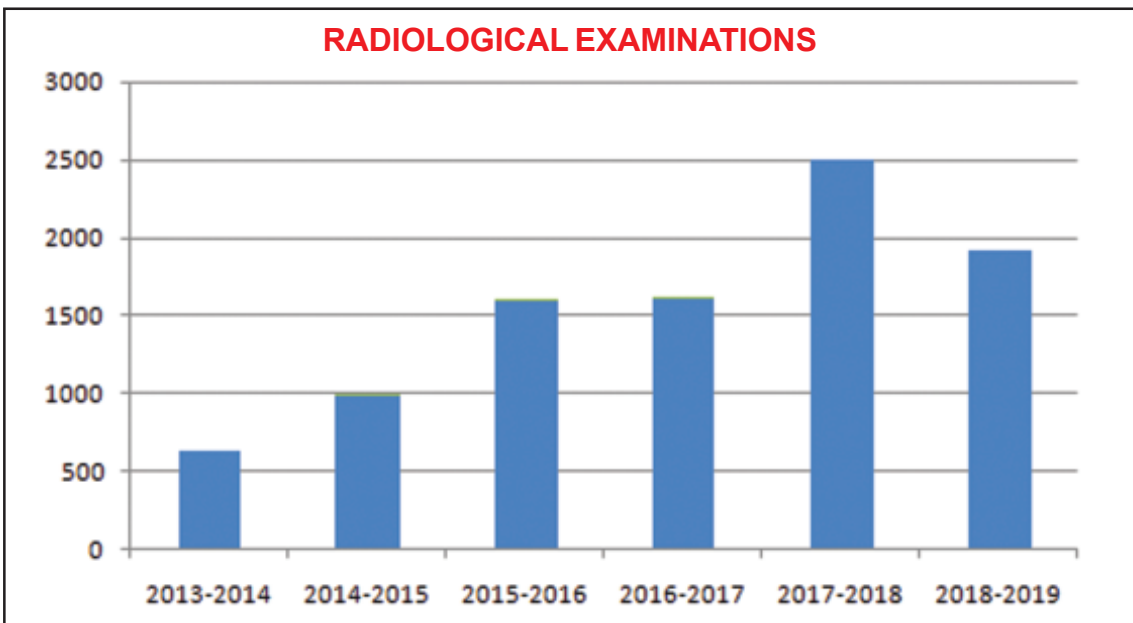
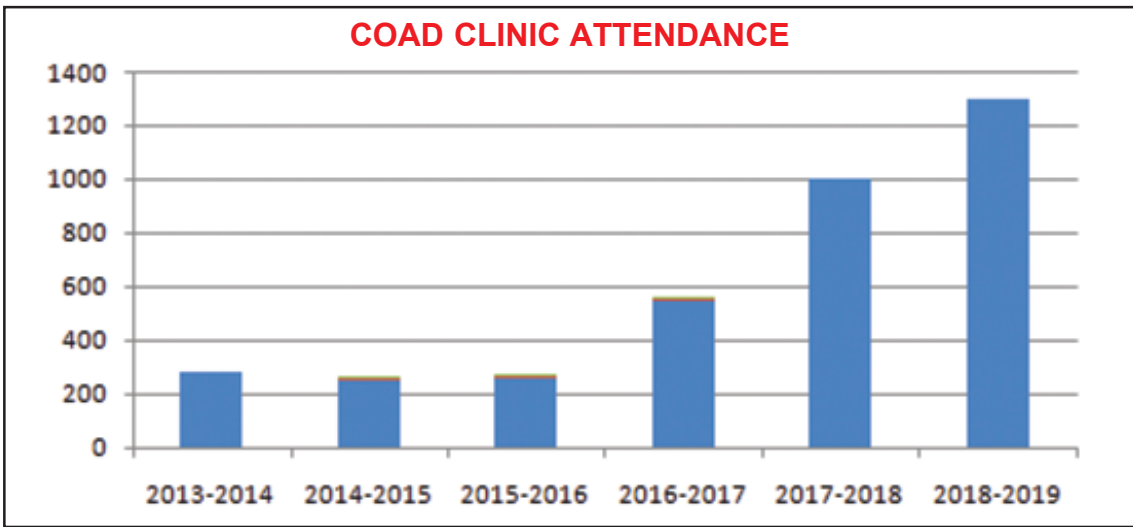
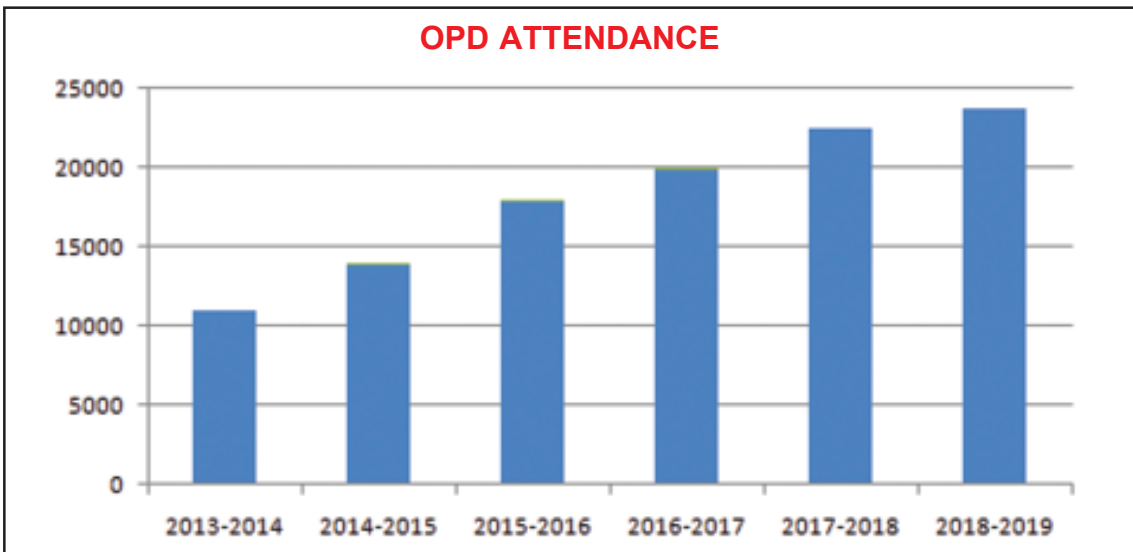
All basic skills of history-taking, clinical examination, interpretation of chest X-ray, and all relevant diagnostic tests and treatment skills were imparted to them.

Total New OPD Attendance during the year (April 2018 -2019)

S.No.	Month	Male	Female	Total
01	April 18	419	634	1053
02	May 18	456	706	1162
03	June 18	380	541	921
04	July 18	459	748	1207
05	August 18	337	702	1039
06	September 18	384	555	939
07	October 18	368	645	1013
08	November 18	317	447	764
09	December 18	317	512	829
10	January 19	353	577	930
11	February 19	337	590	927
12	March 19	406	657	1063
	Total	4533	7314	11847

Last 6 years OPD attendance in the clinical section at NDTB Centre

SL. NO.	YEAR	OPD ATTENDENCE			SPECIAL OPD (COAD)	X-RAY
		NEW OPD	RE-VISITS	TOTAL		
01	2013-14	6396	4610	11006	277	621
02	2014-15	7843	6144	13987	277	980
03	2015-16	9828	8572	18400	296	1565
04	2016-17	10157	9895	20052	562	1561
05	2017-18	11535	11064	22599	1022	2505
06	2018-19	11847	11884	23731	1293	1914



Radiological Examination

Table below gives month-wise distribution of radiological examination done during 2018-19

S.No.	Month	X-Rays OPD	X- Rays Active Case Finding	Total X-rays done
1.	April18	221	-	221
2.	May18	229	-	229
3.	June18	100	-	100
4.	July18	145	21	166
5.	August18	144	-	144
6.	September18	130	21	151
7.	October18	168	4	172
8.	November18	148	5	153
9.	December18	121	15	136
10.	January19	153	-	153
11.	February19	129	-	129
12.	March19	160	-	160
	Total	1848	66	1914

DOTS Centre

DOTS Centre situated at NDTB Centre was restarted in February 2017. Till date we have registered 209 patients at our DOTS Centre. Presently following number of patients are on treatment.

Category /Outcome	No.
Cat 1	77
Cat II	12
Paediatric	05
Total	94

*Transfer out : 06

*Transfer in : 01

Died : 01

Defaulted : 01

EPIDEMIOLOGICAL SECTION

Epidemiological section of New Delhi Tuberculosis Centre is involved in various activities. Some of the major activities being undertaken are screening of staff from various organizations like National Zoological Park, Embassies, Hotels and Stake Holders of corporate sector. The section is also involved in various research projects being undertaken from time to time by the Centre, monitoring and supervision of various chest clinics of Delhi state which is being conducted in collaboration with State TB Cell. The section is also conducting facilitating training sessions round the year for various health personnel which include ground level staff, nursing personnel as well as medical officers/private practitioners. During the year 2018-19, a student from Jamia Millia Islamia opted to pursue training at NDTB Centre where he did a study entitled "Sputum disposal practice among TB patients visiting DOTS Centre" as a part of training programme at the Centre. The section was also involved in the supervision of Active Case Finding Campaign which is propagated by RNTCP. Active case finding campaign, through house to house survey for the search of TB symptomatic, was proposed by Central TB Division in January 2017. This was a national level activity which is being implemented throughout the country since then.

ECHO CLINIC

ECHO is a web based video conference platform which is being used in Delhi by all chest clinics including the state TB cell. During these clinics DTOs from all chest clinics get connected via video conference and discuss various aspects of TB programme like case presentations/recent updates etc. This activity has been



ECHO Clinic from STDC Delhi Hub (Every first wednesday of month) for para medical staff

highly success full. Every week ECHO clinics are held. All sections of the NDTB centre including the Epidemiology section are involved in facilitating/conducting the clinic from time to time.

PUBLIC HEALTH SECTION

Public health section is one of the departments of New Delhi Tuberculosis centre. This department is involved in various activities including various public health interventions undertaken from time to time.

Health talk

Health talk is one of the major activity through which all kind of information is disseminated amongst masses. This is the simplest method to communicate any message from one person to another. New Delhi TB Centre is conducting in-house health talk on daily basis in its main OPD hall where almost 100 plus patients visit every day.

TB awareness

TB awareness is generated by using placards which are being displayed from time to time. By using audio-visual aids, we try to generate awareness amongst our patients and their relatives. We have various documentaries made on TB which are being displayed every day in our main OPD hall. We distribute print material to our visitors to recapture our message given by us through word of mouth.

TB Supervisor Course

The Public Health section is also undertaking the TB Supervisor course. It is a three months duration course whereby students from various parts of the country are selected. Classroom teaching, practical training, field visits and demonstrations are an integral part of the training. During three months period, students were sensitized about following mentioned aspects of TB :

- Tuberculosis disease and its introduction
- RNTCP programme and DOTS (practical as well as theory)
- General aspects with emphasis on community based programmes
- Recent Updates in the programme
- Their role and responsibilities

The students are rotated in various departments of the Centre which include the epidemiology section, clinical section ,DOTS centre and Mantoux room. They are also involved in various activities of the centre like giving health talk to patients to build up their confidence, counselling patients ,filling treatment cards etc. At the end of the course a practical as well as a theory examination is conducted and upon success full completion of the course, students are awarded a TBHV completion course certificate. The course accredited by the RNTCP. During the year 2018-2019, four batches took TB Supervisor training. The total strength of the students was 52.

Mantoux Test

Mantoux test is done at the NDTB Centre. Apart from being referred from the OPD of NDTB Centre, the patients are also referred from various government hospitals as well as those taking treatment by private practitioners for Mantoux Screening.

During the period April 2018 to March 2019, 10318 mantoux test were done at the NDTB Centre. Out of these, results of 9175 patients were available. Month-wise Mantoux screening undertaken is as follows:

Month 2018-19	Total test	Test read	Reactors (>10mm)	Non Reactors (<10mm)
April'18	916	834	381	453
May'18	896	792	394	398
June'18	869	755	253	502
July'18	1030	902	461	441
August'18	902	806	416	390
September'18	886	798	378	420
October'18	855	761	308	453
November'18	720	642	296	346
December'18	740	656	337	319
January,19	738	665	337	328
February'19	913	799	387	412
March'19	853	765	345	420
Total	10318	9175	4293	4882

Anti TB Week Celebration

"It's time to End TB" is the slogan to make people aware to end TB. This theme encourages people all over the world from the youngest to the oldest, to make an individual call for the elimination of TB and say what changes they expect to take place in their life time.

For the last so many years, New Delhi TB Centre is organising different programmes targeting patients and community. These activities leave an impact and understanding regarding TB amongst them. This year Anti TB Week was celebrated from 19.3.2019 to 30.3.2019 at New Delhi TB Centre whereby various activities like health talks, painting competition, slogan and other competitions were organised for patients and general public.

This years activities are mentioned below :

Painting competition

Every year a painting competition is held for children from NGOs namely SPYM and Bachoon ka Ghar covering various aspects of TB like, types of TB, organ involved, prevention, treatment of TB etc. Number of students participated were 30.

Community meet

Community meet or awareness generation programme is a very important tool to share the basic information of any disease. Since TB is infectious, it is important that every individual must know basics about TB. This year community meet was organised at Hauz Qazi, one of the old Delhi congested area. Around 50-60 community residents were present in the meet. It was a two way discussion covering various aspects of disease.

Poem competition

Children of SPYM and Bachoon ka Ghar visited NDTBC on 23.3.2019 to write a poem on TB. Children from both the organisations (SPYM and Bachoon ka Ghar) expressed their views by writing a poem on TB. All the events were judged by the panel of judges and children were awarded prizes for the best performance at the valedictory function held on 30.3.2019. Total 30 students took part in the event.

Slogan competition

A slogan competition was held amongst the children of SPYM only. Staff from NDTB Centre visited SPYM on 26.3.2019 to conduct slogan competition. Total 28 students participated in the event.

Activities carried out by New Delhi TB Centre on occasion of World TB Day celebration 2019

S. No.	Date	Place	Activities planned/ Name of the Activity	Description/ Brief
1	19.3.2019 (9.00 AM)	OPD Hall	Inauguration of World TB Day celebration week	Health talk delivered by the TB Supervisor students followed by expert discussion alongwith in house doctors.
	(10.00 AM to 12.00 Noon)	Clinical Area	Painting Competition	Students of SPYM and Bachon ka Ghar children were invited to participate in a painting competition covering various of Tuberculosis

2	22.3.2019 (3.00 PM)	Hauz Qazi	Community meet	HV students and community resident
3	23.3.2019 (11.00 AM)	Lecture hall	Poem Competition	The TB Supervisor students, SPYM and Bachho ka ghar inmates wrote poem on TB
4	26.3.2019 (2.00 PM)	SPYM at night shelter, Darya Ganj.	Health talk followed by slogan competition	Visit to SPYM at night shelter, Darya Ganj. The inmates were encouraged to write slogan on TB
5	30.3.2019 (12.00 PM to 1.00 PM)	Auditorium NDTB Centre	Valedictory Function	

Note : participating organizations :

- a. SPYM
- b. Bachhon ka Ghar

Community meetings and health talk

Date	Event	Participants
31.5.2018	World Tobacco Day was celebrated by organising health talk at SPYM drug de addiction centre whereby inmates were explained about harmful effects of tobacco and drugs	Inmates of SPYM,
5.6.2018	On world environment day all TB students collectively cleared their class rooms to mark the occasion and show the importance of cleanliness	TB supervisor students
1.7.2018	On World Doctors Day, Director and Epidemiologist, NDTBC delivered a talk on the side effects of TB drugs for TB supervisor students and student posted from Jamia Islamia.	Students of TB Supervisor course and Jamia Islmaia.
13.8.2018	All old students of TB Supervisor course, batch 15 th performed nukkar natak at Ajmeri Gate for general awareness of TB to mark World Youth Day.	Community residents and students
20.11.2018 1.12.2018	Annual Day Celebration was held at NDTBC On World AIDS day, a health talk was given in main OPD hall to sensitize visitors about HIV and AIDS	Students and staff Staff and students
24.3.2019	Anti TB week was celebrated from 19.3.2019 to 30.3.2019 whereby various events were conducted at different places.	Inmates, staff and students.



Community meeting on occasion of 'World TB Day'



Painting Competition on occasion of 'World TB Day'



TB Quiz on occasion of 'World TB Day'



Poster made by students about 'TB'

MYCOBACTERIAL LABORATORY

The laboratory of New Delhi Tuberculosis Centre is designated as Intermediate Reference Laboratory by Central TB Division, Ministry of Health & Family Welfare, Government of India.

The laboratory was accredited by National Accreditation Board for Testing & Calibration Laboratories (NABL) on 25.7.2018 for technical competency in performing medical laboratory testing following the scope of ISO 15189: 2012 standards.

The laboratory is certified to perform new diagnostic methods such as Line Probe Assay for first and second line drugs and liquid culture DST for first and second line drugs.

The laboratory is also involved in STREAM clinical trial stage 2 providing laboratory support to Rajan Baby Institute of Pulmonary Medicine and Tuberculosis (RBIPMT).

This laboratory actively involves in training of laboratory personnel appointed in Delhi RNTCP. In addition, IRL conducts onsite evaluation visit to 21 chest clinics of Delhi. The IRL also compiles the reports received from chest clinics on monthly basis and send them to NRL and CTD.

Besides the above, the laboratory of New Delhi Tuberculosis is one of the five RNTCP Whole Genome Sequencing facilities. Under this facility the laboratory was equipped with Illumine MiSeq bench top sequencer system. When fully functional, this lab will aid in delineating molecular epidemiology and detection of hot spots for drug resistance.

Annual Annexure M for the year, 2018-2019 (District Wise)

District	Nos. of TB suspects examined for diagnosis	Nos. of TB suspects found positive	Nos. of TB suspects undergoing repeat examination	Nos. of TB suspects found positive on repeat examination	Nos. of follow-up patients examined	Nos. of follow-up patients found to be positive	Total nos. of slides examined
BJRM	6232	510	35	4	2209	55	14809
GTBH	8664	954	5	1	2017	75	19701
HEDGEWAR	18450	1838	51	6	4632	151	42149
KCC	7035	599	20	3	2130	55	16168
LNH	10894	898	15	1	792	47	22608
JHANDEWALAN	2502	330	2	0	1148	78	6117
S.P.M.MARG ,PILI KOTHI	4271	494	0	0	897	47	9537
R.K. MISSION	2950	361	0	0	858	47	6744
NEHRU NAGAR	15249	1841	358	43	5286	348	36157

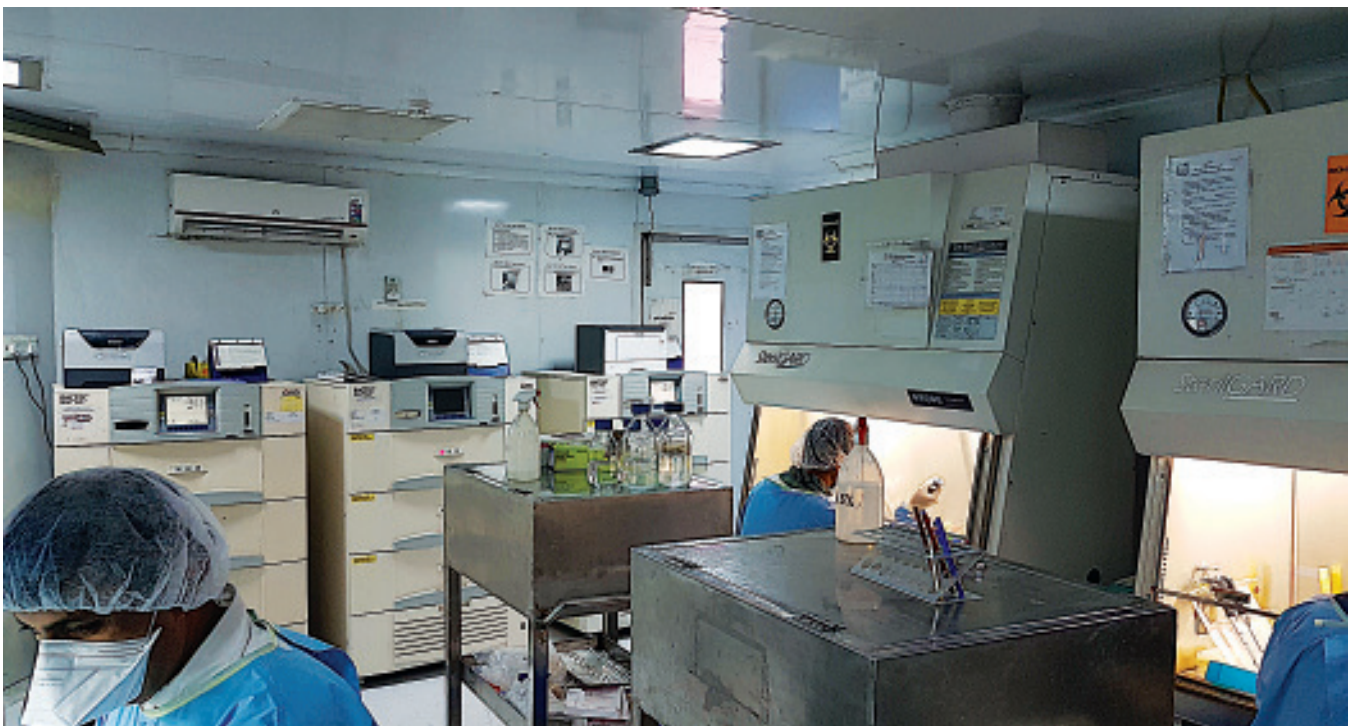
MOTI NAGAR	10584	1441	20	2	3879	182	25513
R.T.R.M HOSPITAL	8154	787	11	0	2395	207	20059
NARELA CHEST CLINIC	7860	917	2	0	2607	153	18492
KARAWAL NAGAR	7252	1044	8	1	2980	128	17552
NDMC CHEST CLINIC	21846	2112	658	0	2356	123	46562
BSA	6480	783	45	4	2210	117	15176
DDUH	11972	1371	24	1	3560	172	27022
GULABI BAGH	3009	276	0	0	647	29	6646
SANJAY GANDHI	5485	657	0	0	2435	61	13270
C.C.J.P.C Hospital Shastri park	6330	936	23	8	3112	259	17372
CH.DESRAJ	6118	697	16	5	1837	122	14100
MALVIYA NAGAR	4876	647	0	0	2723	306	12478
NITRD	8229	708	6	0	2036	88	18516
SHAHDARA	6283	743	314	3	2465	103	15372
BIJWASAN	5929	546	1	0	1787	191	13631
PATPARGANJ(TU1)	12542	1544	103	1	3895	213	29209
	209196	23034	1717	83	60893	3357	484960

During the year, a total of 2,09,196 TB suspects were examined for diagnosis in all 25 chest clinics of Delhi state out of which 23,034 were found positive. As per data received from TB laboratory abstract, 4,84,960 slides were examined, Out of these 49,379 slides were found positive. A total of 4,35,581 slides were found negative.

On-site Evaluation visit and Panel Testing

An IRL team comprising of Microbiologist, one Medical officer and one Laboratory Technician visits each chest clinic at least once a year to DTCs for on-site evaluation. During the visit, randomly selected DMCs are also covered for evaluation.

Recommendations of the annual supervisory visits to the districts by the IRL have focused on identifying operational and technical problems of the laboratories including availability of staff, infrastructure, regular supply of consumables and training and suggest actions to be taken to solve the problems.



Rapid Culture and Drug Sensitivity Testing in NDTB Centre Laboratory

List of DTCs visited by IRL Team for OSE

Sr.No.	Chest Clinic	Visit Date
1	GTBH Chest Clinic	09.03.2018
2	BJRM Chest Clinic	15.03.2018
3	R K Mission Chest Clinic	02.05.2018
4	Ch. Desraj Chest Clinic	04.05.2018
5	Shahdara Chest Clinic	10.05.2018
6	Hedgewar Chest Clinic	11.05.2018
7	Patparganj Chest Clinic	15.05.2018
8	Jhandewalan Chest Clinic	07.06.2018
9	Karawal Nagar Chest Clinic	08.06.2018
10	LNH Chest Clinic	21.06.2018
11	Pili Kothi Chest Clinic	22.06.2018
12	Shastri Park Chest CLinic	17.07.2018
13	Kingsway Camp Chest Clinic	18.10.2018
14	SGMH Chest Clinic	22.10.2018
15	RTRM Chest Clinic	25.10.2018
16	Malviya Nagar Chest Clinic	31.10.2018
17	Gulabi Bagh Chest Clinic	13.12.2018
18	Narela Chest Clinic	14.12.2018
19	BSA Chest Clinic	17.12.2018
20	Bijwasan Chest Clinic	24.12.2018
21	NITRD Chest Clinic	30.12.2018

Programmatic Management of Drug Resistant Tuberculosis (PMDT) Activities

The laboratory got certification by CTD for Line Probe Assay, solid and liquid culture and DST. Currently sputum samples received from 17 chest clinics for diagnosis and follow-up under PMDT activities in Delhi.

**PMDT activities carried out during the year April 2018-March 2019
(Specimens processed on culture or DST)**

Q2 2018 to Q1 2019	Diagnostic Sputum SPECIMENS inoculated	Follow-Up SPECIMENS inoculated	LPA DST done	Liquid DST Done	Total H+R Sens	Total H+R Res	Total H only Res	Total R only Res
Q 2 18	770	1968	1669	80	1305	113	134	10
Q 3 18	823	2284	2275	53	1819	98	164	12
Q 4 18	432	2311	1514	1	1271	46	103	4
Q 1 19	561	2500	1331	8	1154	46	98	3
Total	2586	9063	6789	142	5549	303	499	29

The table provides details of laboratory tests done under PMDT activities during the year 2018-19. A total of 2586 sputum specimens were processed out of which 303 cases turned out to be MDR-TB and 29 cases were Rifampicin mono resistant.

TRAINING AND MONITORING SECTION

The institute is actively involved in the training of various medical and paramedical personnel who visit from Delhi and other states of our country, in implementation of strategies under Revised National Tuberculosis Control Programme (RNTCP). Several training programmes have already been conducted by the institute for doctors, medical students from Mulana Azad Medical College & Patel Chest and for paramedical personnel (DOT Provider, STS, DEO, Lab Tech., Sr. Lab Tech., Treatment organizers and Sr. Treatment supervisors). Training is also imparted to the nursing students from Ahilaya Bai College of Nursing, Lady Reading Health School, Safdurjung Hospital, Rajkumari Amrit Kaur College of Nursing. The details of trainings done during the year are given as under:

TRAINING ACTIVITIES

During the year, 98 days of training sessions were conducted wherein 1995 personnel were trained regarding various aspects of the RNTCP which includes 81 sessions. Various aspects of RNTCP, diagnosis, management, monitoring of patients taught during the training in form of modules and hands on training. The details of training are given below:

**Table: Details of Trainings/ Sensitization held at New Delhi TB Centre (STDC)
from 01st April 2018 to 31st March 2019**

S. No.	Detail of Training	Period		Days	No. of Participants
1	Two Days training for Medical Officers on revised guidelines on PMDT	09.04.2018	10.04.2018	2	21
2	One Day training for Lab. Technician and Medical Officers on CBNAAT Under RNTCP	10.04.2018	10.04.2018	1	4
3	One day training for DTOs and DEO on DBT and PFMS for Chest Clinic for Delhi State	11.04.2018	11.04.2018	1	35
4	One day RNTCP sensitization for Post Graduate Student of V.P. Chest Institute under RNTCP	11.04.2018	11.04.2018	1	5
5	Two Days training for Medical Officers on revised guidelines on PMDT for Delhi State RNTCP (2nd Batch)	12.04.2018	13.04.2018	2	25
6	One Day RNTCP sensitization programme for Nursing Students from South India	12.04.2018	12.04.2018	1	32

7	One day RNTCP Sensitization programme for Medical interns from Maulana Azad Medical College	13.04.2018	13.04.2018	1	32
8	One Day training for STS on revised guidelines on PMDT for Delhi State RNTCP	16.04.2018	16.04.2018	1	26
9	One Day training for STS on revised guidelines on PMDT for Delhi State RNTCP (2nd Batch)	17.04.2018	17.04.2018	1	16
10	One day RNTCP Sensitization programme for Medical interns of Maulana Azad Medical College	18.04.2018	18.04.2018	1	23
11	One Day training for STLS on revised guidelines on PMDT for Delhi State RNTCP	19.04.2018	19.04.2018	1	20
12	One Day training for STLS on revised guidelines on PMDT for Delhi State RNTCP (2nd Batch)	20.04.2018	20.04.2018	1	18
13	One day training for DTO's and DEO's on DBT and PFMS for Chest Clinic for Delhi Sate	23.04.2018	23.04.2018	1	34
14	One day RNTCP sensitization for Field Workers for GLRA under RNTCP	23.04.2018	23.04.2018	1	10
15	One Day RNTCP sensitization programme for Nursing Students from Lady Reading Health School	03.05.2018	03.05.2018	1	19
16	One Day Delhi State workshop cum review meet under RNTCP	22.05.2018	22.05.2018	1	33
17	One Day RNTCP sensitization programme for Nursing Students of Illrd Year BSc	01.06.2018	01.06.2018	1	25
18	One day RNTCP Sensitization programme for Medical interns of Maulana Azad Medical College	06.06.2018	06.06.2018	1	25
19	One day RNTCP Sensitization programme for Medical interns of Maulana Azad Medical College	20.06.2018	20.06.2018	1	24

20	One day RNTCP Sensitization programme for Medical Officers of Tihar Jail on the project “framework for TB Care in Prisons”	19.07.2018	19.07.2018	1	28
21	One day RNTCP Sensitization programme for Medical Officers of Tihar Jail on the project “framework for TB Care in Prisons”	20.07.2018	20.07.2018	1	29
22	One day sensitization cum meeting regarding Sputum transport mechanism with postal Services Department	24.07.2018	24.07.2018	1	10
23	One Day Sensitization on framework for TB care in prisons (Health Workers)	27.07.2018	27.07.2018	1	37
24	One Day retraining for STLS and Lab. Technicians of Delhi State RNTCP	02.08.2018	02.08.2018	1	15
25	One Day retraining for STLS and Lab. Technicians of Delhi State RNTCP	03.08.2018	03.08.2018	1	24
26	One Day retraining for STLS and Lab. Technicians of Delhi State RNTCP	06.08.2018	06.08.2018	1	24
27	One Day retraining for STLS and Lab. Technicians of Delhi State RNTCP	08.08.2018	08.08.2018	1	23
28	One day RNTCP Sensitization programme for Medical interns of Maulana Azad Medical College	08.08.2018	08.08.2018	1	24
29	One Day retraining for STLS and Lab. Technicians of Delhi State RNTCP	13.08.2018	13.08.2018	1	23
30	One Day retraining for STLS and Lab. Technicians of Delhi State RNTCP	16.08.2018	16.08.2018	1	23
31	One day RNTCP Sensitization programme for Medical interns of Maulana Azad Medical College	17.08.2018	17.08.2018	1	26
32	One day meeting for PMDT Committee under RNTCP	20.08.2018	20.08.2018	1	9
33	One Day retraining for STLS and Lab. Technicians of Delhi State RNTCP	21.08.2018	21.08.2018	1	26

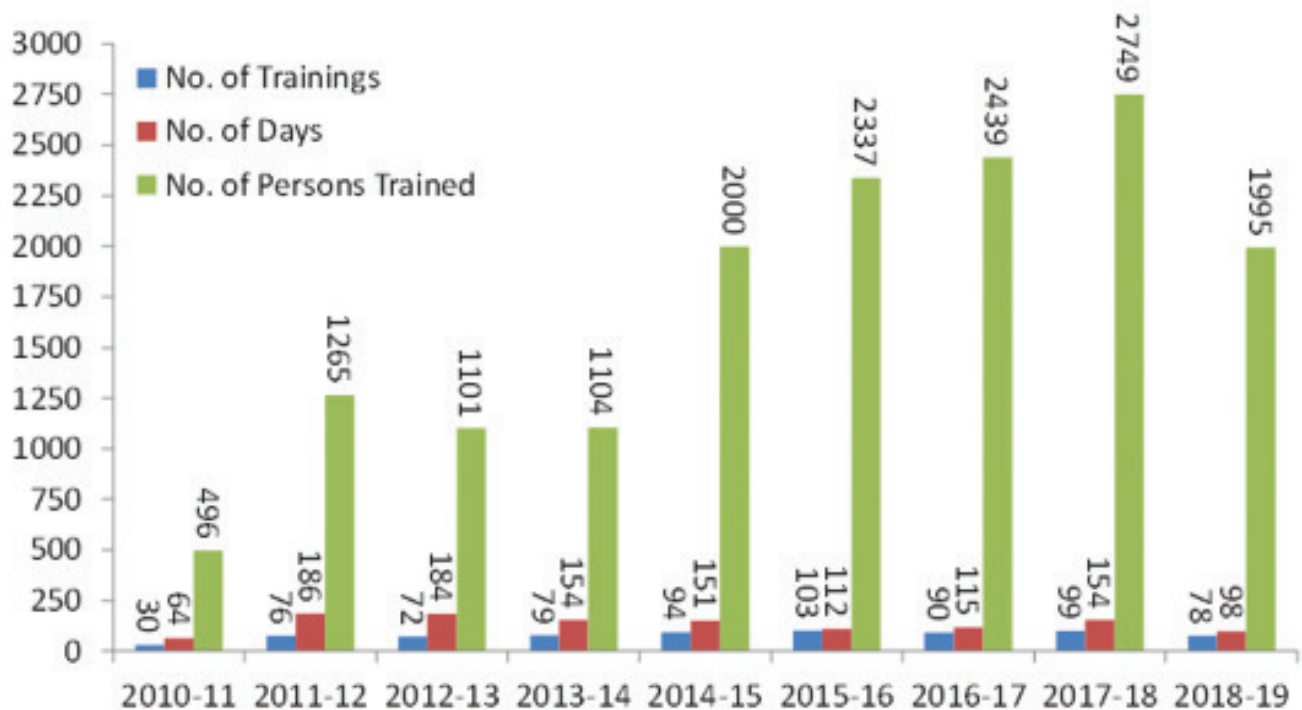
34	One day sensitization for Medical and paramedical staff for Active case finding among Tihar Jail prisoners	21.08.2018	21.08.2018	1	104
35	One Day training on pilot project for "Sputum sample transport and Booking" by post office in Delhi State under RNTCP	23.08.2018	23.08.2018	1	12
36	One Day retraining for STLS and Lab. Technicians of Delhi State RNTCP	24.08.2018	24.8. 2018	1	24
37	One Day retraining for STLS and Lab. Technicians of Delhi State RNTCP	27.08.2018	27.08.2018	1	21
38	One Day retraining for STLS and Lab. Technicians of Delhi State RNTCP	30.08.2018	30.08.2018	1	21
39	One day workshop and review meet on PMDT programme under RNTCP Delhi State	10.09.2018	10.09.2018	1	34
40	One Day RNTCP sensitization programme for nursing Students	17.09.2018	17.09.2018	1	21
41	One Day RNTCP sensitization programme for nursing Students of 4th Year BSc from Galgotia College for Nursing	4.10.2018	04.10.2018	1	33
42	One day RNTCP Sensitization programme for Medical interns from Maulana Azad Medical College	10.10.2018	10.10.2019	1	4
43	One day Sensitization for Lab. Technicians from HAMC & Jamia Hamdard under RNTCP	15.10.2018	15.10.2018	1	5
44	One day Nikshay V2 Training for STLS under RNTCP	22.10.2018	22.10.2018	1	21
45	One day Nikshay V2 Training for STLS under RNTCP	23.10.2018	23.10.2018	1	21
46	One day Nikshay V2 Training for STLS under RNTCP	25.10.2018	25.10.2018	1	22
47	One day Nikshay V2 Training for STLS under RNTCP	26.10.2018	26.10.2018	1	24

48	One Day RNTCP sensitization programme for nursing Students of 2nd Year BSc from Holy Family Hospital	29.10.2018	29.10.2018	1	81
49	One day Nikshay V2 Training for DOT Plus Supervisors under RNTCP	30.10.2018	30.10.2018	1	28
50	One day training for Data Entry Operators on Nikshay V2 under RNTCP	01.11.2018	01.11.2018	1	31
51	One day training for Distt. TB Officers on Nikshay V2 under RNTCP	02.11.2018	02.11.2018	1	19
52	One day training for STS on Nikshay V2 under RNTCP	12.11.2018	12.11.2018	1	28
53	One Day RNTCP sensitization programme for Nursing Students of MSc from RAK College for Nursing	19.11.2018	19.11.2018	1	4
54	One day training for STS on Nikshay V2 under RNTCP	20.11.2018	20.11.2018	1	16
55	One Day RNTCP sensitization programme for nursing Students of RAK College for Nursing	29.11.2018	29.11.2018	1	34
56	One Day Training on procurement and supply chain and Nikhsay Aushadhi for DTOs and STDC and State TB Cell Officers	04.12.2018	04.12.2018	1	25
57	One Day RNTCP sensitization programme for nursing Students of 3rd Year BSc from Galgotia College of Nursing	04.12.2018	04.12.2018	1	30
58	One Day Training on procurement and supply chain and Nikhsay Aushadhi for MOTCs and STDC and State TB Cell Officers	05.12.2018	05.12.2018	1	17
59	One Day Training on procurement and supply chain and Nikhsay Aushadhi for MOTCs	06.12.2018	06.12.2018	1	12
60	One Day RNTCP sensitization programme for nursing Students of 3rd Year GNM from Nightingale College for Nursing	06.12.2018	06.12.2018	1	52

61	One Day Training on procurement and supply chain and Nikhsay Aushadhi for STS and Store In charge under RNTCP	11.12.2018	11.12.2018	1	23
62	One Day Training on procurement and supply chain and Nikhsay Aushadhi for STS and Store In charge under RNTCP	12.12.2018	12.12.2018	1	21
63	Ten Days Training for call centre executives to train them on RNTCP to answer the query asked by individual	17.12.2018	28.12.2018	10	43
64	One Day Training on procurement and supply chain and Nikhsay Aushadhi for DEOs and Store In charge under RNTCP	18.12.2018	18.12.2018	1	25
65	One Day Training on procurement and supply chain and Nikhsay Aushadhi for DPS and assistants under RNTCP	20.12.2018	20.12.2018	1	31
66	One Day RNTCP sensitization programme for 4th Year Bsc Nursing Students of Nightingale College for Nursing	08.01.2019	08.01.2019	1	49
67	Ten days training for Lab. Technicians from Manav Rachna University Faridabad under RNTCP	02.01.2019	12.01.2019	10	4
68	One Day Delhi State workshop cum review meet under RNTCP	16.01.2019	16.01.2019	1	29
69	One Day RNTCP sensitization programme for nursing Students for 4th Year Bsc from Lady Reading College for Nursing	16.01.2019	16.01.2019	1	40
70	One Day RNTCP sensitization programme for nursing Students for LHV from Lady Reading Health School for Nursing	07.02.2019	07.02.2019	1	21
71	One Day RNTCP sensitization programme for nursing Students for 2nd Year Bsc from College for Nursing	08.02.2019	08.02.2019	1	23
72	One Day Training for STLS and Lab. Technicians on CBNAAT under RNTCP	18.02.2019	18.02.2019	1	17

73	One Day Training for STLS and Lab. Technicians on CBNAAT under RNTCP	19.02.2019	19.02.2019	1	19
74	One Day Training for STLS and Lab. Technicians on CBNAAT under RNTCP	21.02.2019	21.02.2019	1	21
75	Visit of WHO representative on observation for current status of RNTCP	26.02.2019	26.02.2019	1	23
76	One Day Training for STLS and Lab. Technicians on CBNAAT under RNTCP	28.02.2019	28.02.2019	1	29
77	One Day RNTCP sensitization programme for 3rd & 4th Year Bsc Nursing Students from institute for Nursing education Ahmednagar	08.03.2019	08.03.2019	1	61
78	One Day training cum review meet to clean DRTB data in the state for 2018	22.03.2019	22.03.2019	1	24
	Total			98	1995

TRAINING TREND –STDC DELHI



Month wise Details of Trainings/ Sensitization during 2018-19 held at New Delhi TB Centre (STDC):

Months	DTOs and Med. Officers	STLS	STS	Tech Officers/ Lab. Tech	DRTB & HIV Cord.	DOT Providers	DEO's	Medical Students	Nursing Staff	Total
Apr-18	74	38	51	4	0	10	32	60	32	301
May-18	33	0	0	0	0	0	0	0	19	52
Jun-18	0	0	0	0	0	0	0	49	25	74
Jul-18	67	0	0	0	0	37	0	0	0	104
Aug-18	9	39	0	197	0	104	0	50	0	399
Sep-18	34	0	0	0	0	0	0	0	21	55
Oct-18	46	42	0	5	28	0	0	4	114	239
Nov-18	19	0	44	0	0	0	31	0	38	132
Dec-18	77	0	21	0	31	43	25	0	82	279
Jan-19	29	0	0	4	0	0	0	0	89	122
Feb-19	0	36	0	73	0	0	0	0	44	153
Mar-19	0	0	0	0	24	0	0	0	61	85
	388	155	116	282	83	194	88	163	525	1995

Analysis of Quarterly Cohort Reports

Compilation and preparation of quarterly reports (Sputum Conversion, Treatment Outcome and Programme management) of all chest clinics under RNTCP of Delhi state and their feedback is one of the major activities of STDC. The analysis of the quarterly report for each chest clinic in Delhi is carried out and the feedback, which includes necessary instructions for improvement is prepared and are discussed at the quarterly review meetings with the District TB Officers. All these feedbacks and complied reports of the state are sent to the DTOs and copies of these are also submitted to State TB Control Officer and to Central TB Division, Ministry of Health & Family Welfare.

Table**District Wise Total TB Case Notification in Delhi State from 1/1/2018 to 31/12/2018***

S.No	Name of Chest Clinic	TB Cases Notified from Public Sector	TB Cases notified from Private Sector	Total Notification (Public + Private)
1	Bijwasan	1179	441	1620
2	BJRM Chest Clinic	1628	102	1730
3	BSA Chest Clinic	2825	5259	8084
4	CD Chest Clinic	1820	2339	4159
5	DDU Chest Clinic	3334	513	3847
6	GTB Chest Clinic	2906	266	3172
7	Gulabi Bagh	744	52	796
8	Hedgewar Chest Clinic	1308	104	1412
9	Jhandewalan	895	313	1208
10	Karawal nagar	3831	408	4239
11	KCC	2567	269	2836
12	LN Chest Clinic	4339	225	4564
13	NITRD	10370	214	10584
14	MNCH Chest Clinic	1485	718	2203
15	Moti Nagar	3669	697	4366
16	Narela	2378	31	2409
17	NDMC	7716	139	7855
18	Nehru Nagar	4710	1533	6243
19	Parparganj	4549	375	4924
20	RK Mission	709	1629	2338
21	RTRM Chest Clinic	1472	78	1550
22	SGM Chest Clinic	2146	149	2295
23	Shahdara	2372	412	2784
24	SPM Marg	993	319	1312
25	SPMH Chest Clinic	3099	588	3687
	Total	73044	17173	90217

During 2018, a total of 90,217 cases were notified from Delhi State which includes 17,173 from private sector and 73,044 cases were from public sector.

* Source : Data from NIKSHAY - RNTCP

Table

Outcome of Registered TB cases under RNTCP in Delhi State from Public and Private Sector during 2018*

District Name	Total Notified	Total Outcome	Cured	Died	Treatment Complete	Treatment Failure	Treatment Regimen Changed	Lost to Follow Up	Not Evaluated
Bijwasan	1298	863	254	29	479	14	3	76	8
BJRM	1687	1241	394	44	727	5	21	46	4
BSA	2980	1694	437	56	988	16	49	133	15
CD	1882	1267	377	34	695	38	33	83	7
DDU	3421	1912	568	52	1093	16	61	69	53
GTB	3055	1526	430	41	955	2	14	76	8
Gulabi Bagh	757	522	148	21	297	3	10	34	9
Hedgewar	1391	369	127	15	193	3	9	19	3
Jhandewalan	939	401	107	9	233	3	11	35	3
Karawal Nagar	4102	2003	461	47	1331	25	29	101	9
KCC	2597	1637	463	73	923	14	58	98	8
LN H	4722	580	204	37	266	9	27	33	4
NITRD	10829	1856	686	101	857	19	65	115	13
MNCH	5345	2357	823	41	1325	17	52	92	7
Narela	2396	1755	498	37	1020	16	5	178	1
NDMC	8127	2142	543	67	1268	28	79	139	17
Nehru Nagar	4731	2394	692	46	1466	18	46	99	27
Parparganj	4942	1828	503	36	1132	15	34	51	57
RK Mission	724	378	159	13	147	3	34	13	9
RTRM	1539	948	325	31	518	18	22	26	8
SGM	2165	1466	331	79	940	6	48	50	12
Shahdara	2371	1396	341	45	852	3	29	111	15
SPM Marg	988	658	178	23	382	19	7	48	1
SPMH	3116	1165	352	17	690	9	47	39	11
TOTAL	76104	32358	9401	994	18777	319	793	1764	309

During 2018, 76,104 TB cases were notified from Delhi State and outcome of 32,358 cases were available. In all 28,178 (87.1%) had been cured and successfully completed their treatment, 994 (3.07%) were died and 319 (0.98%) were failed to respond to treatment. 793 (2.45%) cases were those whose treatment regimen was changed and 1764 (5.45%) were lost to follow-up.

* Source : Data from NIKSHAY - RNTCP

SUPERVISORY ACTIVITIES

Monitoring and evaluation is an important tool for RNTCP. As State TB Training & Demonstration Centre (STDC), the faculty of the Centre is actively involved in monitoring and supervision of the TB control programme at national and state level.

(A) State Internal Evaluation

The internal evaluation of all the chest clinics is an important activity under the RNTCP where in all aspects of the clinic records, staff, drug stores, microscopic activities, facilities and financial aspects are evaluated in detail. Internal evaluation is organized by State TB Control Department. Director of STDC or his nominee is the member of internal evaluation team for all the chest clinics of Delhi. During the year 2018-19, faculty from NDTB Centre participated in evaluation of chest clinic as per the following schedule:

Faculty	Date of Visits	Chest Clinic
Dr. Shanker Matta	30/1/19 to 1/2/2019	Sanjay Gandhi Hospital and Chest Clinic
Dr. Shanker Matta	6/2/19 to 8/2/2019	Nehru Nagar Chest Clinic

(B) Supervisory Visits to Chest Clinics

During the year 2018-19, the following Supervisory visits were made by the faculty who gave their inputs to the improve programme performance under RNTCP:

Faculty	Date of Visits	Chest Clinic
Dr. Shankar Matta	04/05/2018	Ch. Des Raj Chest Clinic
Dr. Shankar Matta	10/05/2018	Shahdara Chest Clinic
Dr. Shankar Matta	11/05/2018	Hedgewar Chest Clinic
Dr. K.K.Chopra	14/06/2018	BJRM Chest Clinic
Dr. Shankar Matta	22/06/2018	Pili Kothi Chest Clinic
Dr. Shankar Matta	18/10/2018	Kingsway Camp Chest Clinic
Dr. Shankar Matta	22/10/2018	SGM Hospital
Dr. Shankar Matta	25/10/2018	RTRM Chest Clinic
Dr. Shankar Matta	30/10/2018	NITRD Chest Clinic
Dr. Shankar Matta	31/10/2018	Malviya Nagar Chest Clinic
Dr. Shankar Matta	28/11/2018	Patpargang Chest Clinic
Dr. Shankar Matta	29/11/2018	Narela Chest Clinic
Dr. Shankar Matta	13/12/2018	Gulabi Bagh Chest Clinic
Dr. Shankar Matta	14/12/2018	Narela Chest Clinic
Dr. Shankar Matta	17/12/2018	BSA Chest Clinic
Dr. Shankar Matta	24/12/2018	Bijwasan Chest Clinic
Dr. K.K.Chopra	19/2/2019	RML DOT Centre

LIBRARY AND INFORMATION SERVICES

The website of New Delhi TB Centre (www.ndtbc.com) has information about various facilities and activities undertaken by the Centre along with list of publications from the institute. The Centre maintains a library which has 660 books on various aspects related to tuberculosis and chest diseases. In addition, it has various National and International journals. The library renders its services to the students of MAMC and V.P.Chest Institute as well as the faculty of the Centre.

ADMINISTRATION

The Administrative Section is backbone for all the working of NDTB Centre. The department has two major activities i.e. Establishment and Accounts. The section look after all the matters related to the staff and deals with the issues pertaining to staff of the Centre. The section caters to the administrative matters and look after service matters pertaining to the staff like framing of recruitment rules, promotions of staff, holding meetings etc. One of the major activities of the section is to maintain the building of NDTB Centre. For smooth running of the Centre, the Section deals with the Ministry of Health & Family Welfare for budget and annual grant.

(A) During 2017-18, the main activities of the Administrative Sections were :

1. The section carried out the beautification work of OPD hall.
2. The laboratory was renovated according to the needs of NABL Laboratory.
3. The lawn area was re-designed and new trees & fountains were added for beautification.
4. To keep check on the security of the Centre, CCTV cameras were installed in entire building.
5. The guard room has been built up for security guards.
6. The meetings were arranged for Managing Committee as well as DPC and MACP Committee.
7. The annual day celebration was organised where cultural activities were performed by the students for the staff followed by lunch.

(B) VISITORS TO NDTB CENTRE

1. A team visited laboratory of NDTB Centre for site assessment for Stream study on 4-6 April, 2018. The team comprises 5 delegates namely, Prof Andrew Nunn (MRC, UK), Dr. Karen Sanders (MRC,UK), Dr. Gabriela Torrea (ITM, Antwerp), Dr. Meera Gurumurthy (Vital Strategies) and Jan Komrska.
2. Dr. Dalip Kumar, Pathologist from Max Hospital, Saket, New Delhi and Dr. Anita Chakroborthy, Microbiologist, Department of Microbiology, MAMC visited the Centre's laboratory for onsite assessment for accreditation by NABL.



3. Ms. Sarah Sengstake, Microbiologist and Ms. Christina, Sr. Laboratory Technician from Institute of Tropical Medicine Belgium visited the Centre from 22nd to 26th October, 2018 to conduct training related to TREAM Clinical Trial activities.
4. A team of Stop TB Partnership and Global Drug Facility visited New Delhi TB Centre on 18th December 2018. The team visited the Laboratory of NDTB Centre followed by discussion with the Director, NDTB Centre.
5. Mr. Pierre Henri Pingeon from KPMG Geneva visited the laboratory of New Delhi TB Centre on 16th January 2019 to understand the laboratory activities under RNTCP.
6. The Global Fund team visited India for Global fund strategy and site visit from 5th to 7th February 2019. The team was consisting of 22 delegates including three ministers of different countries. The team visited the Centre on 7th February, 2019 for site visit. Dr. K.K. Chopra, Director presented the activities of STDC and IRL of Delhi state.
7. A team from WHO Head quarters Geneva, visited NDTB Centre on 26th February, 2019. This visit was regarding taking feedback from India about TB Control strategies adopted by WHO special rapid communication about Drug Resistant TB management.

(C) GRANTS

- i. During the year 2018-19, the Government of India, Ministry of Health & Family Welfare released the annual recurring Grant-in-aid (Salaries) of Rs. 472 Lacs and grant-in-aid (General) of Rs. 46 Lacs.
- ii. Rs. 10,000/- was provided by Tuberculosis Association of India as annual grant.

(D) DONATIONS

Donations received (through TAI) for medicines

- (Anar Singh Chanchal Singh Memorial Fund	Rs.12240/-
- Smt. Ram Piyari Dutt Memorial Fund	
- Donation, Interest on FDR and saving Bank Account	Rs.43772/-
Total	Rs. 56012/-

(E) RIGHT TO INFORMATION ACT 2005

During 2018-19, 11 applications have been received under RTI Act, 2005. The table gives the details of applications received and disposed.

Table: Details of yearly Receipts & Disposal of RTI applications for 2018-19

S. No.	Month & Year	RTI Applications			Appeal			Amount of Fee Paid
		No. of RTI applications received	No. of RTI applications disposal	In Process	No. of Appeals received	No. of Appeals disposal	In Process	
1	April, 18	-	-	-	-	-	-	-
2	May, 18	4	4	-	-	-	-	-
3	June, 18	3	3	-	-	-	-	-
4	July, 18	-	-	-	-	-	-	-
5	August, 18	-	-	-	-	-	-	-
6	Sept, 18	1	1	-	-	-	-	-
7	Oct, 18	-	-	-	-	-	-	-
8	Nov, 18	1	1	-	-	-	-	-
9	Dec, 18	-	-	-	-	-	-	-
10.	Jan, 19	-	-	-	-	-	-	-
11.	Feb, 19	1	1	-	-	-	-	-
12.	March, 19	1	1	-	-	-	-	-
Total	2018-19	11	11	-	-	-	-	-

SUMMARY OF ACTIVITIES OF NEW DELHI TB CENTRE

An insight of annual statistics of the Centre are as follows:

Outpatient Attendance

New outpatients attendance	11847
Revisits	11884
Total outpatients attendance	23731

DOT Centre Attendance

New Patients put on DOTS at NDTB DOT Centre	94
Total Patients (2018-19) put on DOTS at NDTB DOT Centre	209

Special Clinics Attendance

Special clinics (TB and Diabetes, HIV and TB, COAD and Tobacco Cessation Clinic – Total New + old cases)	1283
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Laboratory Examinations (April 2018– March 2019)

1	Total laboratory examinations	49468
2	Smear examinations	22206
3	Culture examinations	
	a. Solid Culture	1253
	b. Liquid Culture	13311
4	Drug susceptibility test	
	a. By liquid culture method	1101
	b. By LPA	10499
5	CBNAAT	
	a. Examinations	1098

Tuberculin skin tests

Total Tuberculin skin tests done	10318
Tests read	9175
Reactors (>10mm)	4293
Non-reactors (<10mm)	4882

Radiological Examinations

Radiological Examinations	1914
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Trainings/IRL Visits/Publications

Personnel trained	1995
Supervision and Monitoring /Internal Evaluation of Chest Clinics	19
IRL Visits to chest clinics for EQA	21
Research and Publications	16

THAKUR, VAIDYANATH AIYAR & CO.
Chartered Accountants
New Delhi, Mumbai, Kolkata, Chennai
Patna and Chandigarh

221-223, Deen Dayal Marg, New Delhi-02
Phones : 91 - 11-23236958-60, 23237772
Fax : 91 - 11-23230831
Email : tvandeca@gmail.com
: tvande@rediffmail.com

Independent Auditor's Report

To the Members of

New Delhi Tuberculosis Center,

Report on the Financial Statements

Opinion

We have audited the accompanying financial statements of **New Delhi Tuberculosis Centre** which comprise the Balance Sheet as at March 31, 2019, the Statement of Income and Expenditure and Receipts & Payments for the year then ended, and a summary of Significant Accounting Policies and Other Explanatory Information.

In our opinion and to the best of our information and according to the explanations given to us, the accompanying financial statements of the Center, read together with Accounting Policies and other explanatory information (note no. 18) have been prepared in accordance with the applicable Laws, in the manner so required and give a true and fair view in conformity with the other accounting principles generally accepted in India, of the state of affairs of the Centre as at March 31st, 2019 and its surplus for the year ended on that date.

Basis for Opinion

We conducted our audit in accordance with the Standards on Auditing (SAs). Our responsibilities under those Standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are independent of the organization in accordance with the Code of Ethics issued by the Institute of Chartered Accountants of India together with the ethical requirements that are relevant to our audit of the financial statements under the provisions of the Act, and we have fulfilled our other ethical responsibilities in accordance with these requirements and the Code of Ethics. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation of these financial statements that give a true and fair view of the financial position and financial performance of the Centre in accordance with the Accounting Standards, to the extent applicable, issued by the Institute of Chartered Accountants of India. This responsibility includes the design, implementation and maintenance of internal control

relevant to the preparation and presentations of the financial statements that gives a true and fair view and are free from material misstatement, whether due to fraud or error.

Auditor's Responsibilities for the Audit of the Financial Statements

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with the Standards on Auditing issued by the Institute of Chartered Accountants of India. Those Standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the Centre in preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate, but not for the purpose of expressing an opinion on the effectiveness of the Entity's internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of the accounting estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Report on Other Legal and Regulatory Requirements

- a) We have obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purpose of our audit;
- b) In our opinion, proper books of account as required by law have been kept by the Centre so far as appears from our examination of those books;
- c) The Balance Sheet , Statement of Income and Expenditure and Receipts and Payments dealt with by this Report are in agreement with the books of account;
- d) In our opinion, the Balance Sheet, Statement of Income and Expenditure and Receipts & Payments comply with the Accounting Standards, to the extent applicable, issued by the Institute of Chartered Accountants of India.

For Thakur, Vaidyanath Aiyar & Co.

Chartered Accountants

FRN: 000038N

(Anil K. Thakur)

Partner

M. No. : 088722

Place: New Delhi

Date : 05.10.2019

**NEW DELHI TUBERCULOSIS CENTRE
BALANCE SHEET AS AT 31ST MARCH, 2019**

	Schedule	As at 31.03.2018 (Rs.)	As at 31.03.2019 (Rs.)
SOURCES OF FUNDS:			
Assets Fund	1	2,977,034	2,998,654
Earmarked Funds	2	1,177,632	1,325,237
Unspend Project Fund	3	792,228	1,432,274
Current Liabilities and Provisions	4	9,837,677	5,266,010
Accumulated Deficit / Surplus		(254,135)	(344,775)
Total		14,530,436	10,677,400
APPLICATION OF FUNDS:			
Fixed Assets	5	2,977,034	2,998,654
Current Assets, Loans & Advances:	6		
- Stock and Stores		157,335	127,129
- Cash and Bank balances		11,200,500	7,376,000
TDS recoverable		195,567	175,617
Total		14,530,436	10,677,400
Accounting Policies and Notes to the accounts	18		

Schedule Nos. 1 to 17 form an integral part of the Accounts

As per our report of even date attached
For Thakur Vaidyanath Aiyar & Co.
Chartered Accountants
FRN: 000038N

Admn. Officer
(S.K. Saini)

Director
(Dr. K.K.Chopra)

(Anil K. Thakur)
Partner
M. No. 088722

Financial Adviser
(Dr. V.K. Arora)

Chairman
(Dr. L.S. Chauhan)

Place : New Delhi
Date : 05.10.2019

NEW DELHI TUBERCULOSIS CENTRE
STATEMENT OF INCOME AND EXPENDITURE FOR THE YEAR ENDED 31ST MARCH 2019

	Schedule	For the year 2018-19	For the year 2017-18
		(Rs.)	(Rs.)
INCOME			
Recurring Grant from Govt.of India :			
Grant-in-aid Salaries		47,200,000	45,100,000
Grant-in-aid General		4,600,000	4,000,000
Maintenance Grants from TAI		10,000	10,000
Fees from Patients	7	157,500	204,500
Misc. Receipts:			
- Interest income		199,499	292,284
- Other receipts		70,000	106,010
Total		52,236,999	49,712,794
EXPENDITURE			
Salary & Other Staff expenditure	8	47,377,522	45,212,355
Administrative Expenses	9	4,399,360	4,797,027
Expenses on X-Ray Films, Drugs & Medicines and Lab. Consumable	10	369,477	358,780
Total		52,146,359	50,368,162
(Deficit)/Surplus for the year		90,640	(655,368)
Less / (Add) : Balance as per last account		(344,775)	310,593
		(254,135)	(344,775)
Accounting Policies and Notes to the Accounts	18		

Schedule Nos.1 to 17 form an integral part of the Accounts

As per our report of even date attached

For Thakur Vaidyanath Aiyar & Co.
Chartered Accountants
FRN: 000038N

Admn. Officer
(S.K. Saini)

Director
(Dr. K.K.Chopra)

(Anil K. Thakur)
Partner
M. No. 088722

Financial Adviser
(Dr. V.K. Arora)

Chairman
(Dr. L.S. Chauhan)

Place : New Delhi

Date : 05.10.2019

NEW DELHI TUBERCULOSIS CENTRE
RECEIPTS & PAYMENTS ACCOUNT FOR THE YEAR ENDED MARCH 31, 2019

	Schedule	For the year 2018-19	For the year 2017-18
		(Rs.)	(Rs.)
R E C E I P T S			
Opening Cash & Bank Balances	6	7,376,000	6,119,512
Grants :			
Recurring Grant-in Aid from Govt. of India			
- Grant-in-aid Salaries		47,200,000	45,100,000
- Grant-in-aid General		4,600,000	4,000,000
Maintenance Grants from TAI		10,000	10,000
Fee from Patients	7	157,500	204,500
Receipts from TAI	11	11,100,694	2,712,000
Other Receipts	12	1,483,945	487,317
Total		71,928,139	58,633,329
P A Y M E N T S			
Staff Expenditure	13	42,961,343	43,113,137
Administrative expenses	14	4,397,807	4,778,679
X-Ray films, Drugs and Med. & Lab. Consumables	15	395,023	372,216
Payments from TAI Fund	16	11,100,694	2,712,000
Other Payments	17	1,872,772	281,297
Closing Cash & Bank Balances	6	11,200,500	7,376,000
Total		71,928,139	58,633,329
Policies and Notes to the Accounts	18		

Schedule Nos.1 to 17 form an integral part of the Accounts

As per our report of even date attached

For Thakur Vaidyanath Aiyar & Co.
Chartered Accountants
FRN: 000038N

Admn. Officer
(S.K. Saini)

Director
(Dr. K.K.Chopra)

(Anil K. Thakur)
Partner
M. No. 088722

Financial Adviser
(Dr. V.K. Arora)

Chairman
(Dr. L.S. Chauhan)

Place : New Delhi
Date : 05.10.2019

NEW DELHI TUBERCULOSIS CENTRE

Schedule- 1

ASSETS FUND

	For the year 2018-19	For the year 2017-18
	(Rs.)	(Rs.)
Balance as Per last A/c	2,998,654	3,372,606
Add : Additions during the year for Cost of Assets Acquired (refer Schedule - 5)	999,639	32,170
	<u>3,998,293</u>	<u>3,404,776</u>
Less: Disposals during the year	659,855	-
Depreciation for the year (refer Schedule - 5)	361,404	406,122
Total	<u>2,977,034</u>	<u>2,998,654</u>

	Unutilised Balance as on 01.04.18	Received / Transferred during the year	Interest	Total	Utilised during the year	Unutilised Balance as on 31.03.19
	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)

Schedule - 2

EARMARKED FUND

General Donations	429,654	56,566	43,772	529,992	171,572	358,420
Auditorium fund	1,008	-	-	1,008	-	1,008
For Poor Patients	56,566	-	-	56,566	56,566	-
For Medicines	257,125	12,240	-	269,365	32,954	236,411
Staff Welfare Fund	82,284	-	2,909	85,193	2,000	83,193
Research Fund	498,600	-	-	498,600	-	498,600
Total	<u>1,325,237</u>	<u>68,806</u>	<u>46,681</u>	<u>1,440,724</u>	<u>263,092</u>	<u>1,177,632</u>

NEW DELHI TUBERCULOSIS CENTRE

	As at 31.03.19	As at 31.03.18
	<u>(Rs.)</u>	<u>(Rs.)</u>
Schedule- 3		
Unspent Project Fund:		
Project Fund -SMS for Sure	-	827,553
Project Fund -Framework of TB care in prison	107,748	241,500
Project Fund -Xpert Ultra	-	363,221
Project Fund-Active Case Finding Campaign	249480	
Project Fund-Mapping of anti Mycobacterial drugs	225000	
Project Fund- Effect of Counselling	210000	
	<u>792,228</u>	<u>1,432,274</u>
Schedule- 4		
Current Liabilities & Provisions		
Advance Fee & Lab Charges	3,160	3,160
Salary & Allowances	3,446,054	3,350,242
Bonus	174,745	178,378
Other Payable	34,029	24,780
Sundry Creditors	8,094	11,130
Provision for Contribution to Gratuity Fund	5,991,000	1,667,000
Security Deposit	72,110	31,320
Training under RNTCP	108485	0
Total	<u>9,837,677</u>	<u>5,266,010</u>

NEW DELHI TUBERCULOSIS CENTRE

Schedule - 5

Fixed Assets

	WDV as on 01.04.18	Additions during the year	Disposals	Balance as on 31.03.19	Depreciation for the year	Net balance on 31.03.19
	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)
Building	199,232	-	-	199,232	19,923	179,309
Electrical Installations	644,810	-	-	644,810	64,481	580,329
Furniture & Fittings	1,154,082	236,072	46,610	1,343,544	123,730	1,219,814
Lab. Equipments	460,403	-	267,434	192,969	19,297	173,672
X-ray Equipments	404,155	-	229,953	174,202	17,420	156,782
Other Equipments	13,546	-	-	13,546	1,355	12,191
Computer	6,548	-	-	6,548	655	5,893
Books	20	-	-	20	8	12
Vehicle	115,858	763,567	115,858	763,567	114,535	649,032
Total	2,998,654	999,639	659,855	3,338,438	361,404	2,977,034
Previous year	3,518,730	305,056		3,823,786	451,180	3,372,606

Detail of Addition of fixed assets during the year 2018-2019

Date of Purchases	Items Name	Qty.	Amount(Rs)
02.05.2018	DZIRE CAR	1	763,567
16.07.2018	EPBAX SYSTEM	1	23,600
16.10.2018	CCTV SYSTEM	1	171,572
30.03.2019	PROJECTOR	1	40,900
			999,639

NEW DELHI TUBERCULOSIS CENTRE

	As at 31.03.19	As at 31.03.18
	<u>(Rs.)</u>	<u>(Rs.)</u>
Schedule- 6		
(A) Current Assets & Loans and Advances		
Stocks and Stores at cost :		
(as valued and certified by the Management)		
-X-Ray films and chemicals		17,150
-Laboratory stains, chemicals glassware	20,863	109,979
Festival Advance	136,472	-
	<u>157,335</u>	<u>127,129</u>
	Sub Total - A	127,129
(B) Cash and Bank Balances:		
Cash in hand	3,812	162
(as certified by the Management)		
In Current A/c with BOI	10,040,955	6,072,500
In Saving Bank		
- with BOI (Earmarked donation fund)	1,072,540	1,221,054
- with BOI (Staff Welfare Fund)	83,193	82,284
	<u>11,200,500</u>	<u>7,376,000</u>
	Sub Total - B	7,376,000
	<u>11,357,835</u>	<u>7,503,129</u>
	Gross Total - A+B	7,503,129

Schedule-7

	Advance Fee as on 01.04.18	Fee Received During the year	Add: Advance fee adjusted During the year	Fee for the year 2018-19	Advance as on 31.03.2019
	<u>(Rs.)</u>	<u>(Rs.)</u>	<u>(Rs.)</u>	<u>(Rs.)</u>	<u>(Rs.)</u>
Advance Fees for patients					
Laboratory charges	3,160	157,500	-	157,500	3,160
X-ray charges	-	-	-	-	-
Total	<u>3,160</u>	<u>157,500</u>	<u>-</u>	<u>157,500</u>	<u>3,160</u>

NEW DELHI TUBERCULOSIS CENTRE

	For the year 2018-19	For the year 2017-18
	<u>(Rs.)</u>	<u>(Rs.)</u>
Schedule- 8		
Salary & Other Staff Expenditure :		
Salaries	26,607,881	28,200,386
Dearness Allowance	2,365,295	3,407,806
House Rent Allowance	5,904,204	5,084,293
Transport Allowance	1,871,780	1,829,355
Other Allowances	1,212,645	983,310
Children's Education Allowances	388,333	430,632
Contribution to Provident Fund	2,804,791	3,053,167
Contribution to Gratuity Fund	5,991,000	1,667,000
Bonus	174,745	178,378
Travel Concession	56,848	378,028
Total	47,377,522	45,212,355
Schedule- 9		
Administrative Expenses :		
Housekeeping Charges	1,402,892	1,127,316
Security Charges	1,103,392	896,511
Medical Aid to staff	280,452	262,943
Travelling Expenses & Conveyance	102,769	102,998
Repairs to Furniture and equipment	154,517	168,824
Repairs to X-ray equipments	46,545	44,903
Repairs to Laboratory equipment	138,365	111,517
Telephone Expenses	138,074	111,955
Printing & Stationery	135,813	117,115
Postage	5,905	4,932
Laundry Charges	7,135	6,580
Maintenance of car	35,482	65,756
Audit Fee	24,780	24,780
Miscellaneous expenses	128,653	140,299
Building maintenance expenses -civil	322,970	692,503
Building maintenance expenses -electrical	179,665	554,590
Annual day expenses	53,961	37,838
Furniture - Major repairs	137,990	325,667
Total	4,399,360	4,797,027

NEW DELHI TUBERCULOSIS CENTRE

		For the year 2018-19	For the year 2018-18
		<u>(Rs.)</u>	<u>(Rs.)</u>
Schedule- 10			
X-Ray Films ,Drugs and Medicines & Lab. Consumable			
Drugs and Medicines			
Balance as on 1.4.2018	-		
Add : Purchased during the year	64,512		
	<u>64,512</u>		
Less : Closing Stock	-		
	<u>-</u>	64,512	63,524
X-Ray Films and Chemicals			
Balance as on 1.4.2018	17,150		
Add : Purchased during the year	89,911		
	<u>107,061</u>		
Less : Closing Stock	20,863		
	<u>20,863</u>	86,198	126,270
Lab. Stains, Chemicals & Glassware			
Balance as on 1.4.2018	109,979		
Add : Purchased during the year	245,260		
	<u>355,239</u>		
Less : Closing Stock	136,472	218,767	168,986
	<u>136,472</u>		
Materials Consumed	Total	<u><u>369,477</u></u>	<u><u>358,780</u></u>

NEW DELHI TUBERCULOSIS CENTRE

	For the year 2018-19	For the year 2017-18
	(Rs.)	(Rs.)
Schedule- 11		
Receipts from TAI		
For PF Advances	5,144,000	1,712,000
For Gratuity Payments	1,810,960	1,000,000
For Provident Fund Payments	4,145,734	
Total	11,100,694	2,712,000

Schedule - 12

Other Receipts

Recovery of Festival Advance	-	36,000
Donations for Medicines	12,240	12,240
Staff Welfare Fund	2,909	3,232
Interest on FFD A/c	179,549	262,974
Interest on Saving A/c (Earmarked Fund)	43,772	41,861
Miscellaneous Receipts	70,000	106,010
Earnest money	52,000	25,000
Security deposit	72,110	-
Traininig under RNTCP	366,885	-
Project-Active case finding	249,480	-
Project-Mapping of antimycobacterial drugs	225,000	-
Project- Effect of counselling	210,000	-
Total	1,483,945	487,317

NEW DELHI TUBERCULOSIS CENTRE

	For the year 2018-19	For the year 2017-18
	(Rs.)	(Rs.)
Schedule- 13		
Staff Expenditure		
Salaries	26,648,105	27,011,740
Dearness Allowance	2,224,011	4,240,706
House Rent Allowance	5,913,060	4,838,203
Transport Allowance	1,870,096	1,819,051
Other Allowances	1,220,765	993,395
Children's Education allowance	388,333	430,632
Contribution to Provident Fund	2,794,747	3,016,498
Contribution to Gratuity Fund	1,667,000	205,000
Bonus	178,378	179,884
Travel Concession	56,848	378,028
Total	42,961,343	43,113,137

Schedule- 14

Administrative Expenses

Wages to Contractual staff	1,402,892	1,127,316
Security Charges	1,103,392	896,511
Medical Aid to staff	280,452	262,943
Travelling Expenses & Conveyance	102,769	102,998
Repairs to Furniture and equipment	154,517	168,824
Repairs to X- Ray equipment	46,545	44,903
Repairs to Laboratory equipment	138,365	113,768
Telephone Expenses	128,825	119,842
Printing & Stationery	135,813	117,115
Postage	5,905	4,932
Laundry Charges	7,135	6,580
Maintenance of car	43,178	68,590
Audit Fee	24,780	24,780
Miscellaneous expenses	128,653	105,163
Building maintenance -civil	322,970	661,183
Building maintenance -Electrical	179,665	554,590
Annual day expenses	53,961	37,838
Advertisement	-	31,356
Furniture	137,990	325,667
Linen and bedding	-	3,780
Total	4,397,807	4,778,679

NEW DELHI TUBERCULOSIS CENTRE

	For the year 2018-19	For the year 2017-18
	(Rs.)	(Rs.)
Schedule- 15		
X-Ray Films ,Drugs and Medicines & Lab. Consumable		
X-Ray Films and Chemicals	116,936	
Drugs and Medicines	61,152	63,524
Laboratory Stains and Chemicals	243,960	191,756
	89,911	
Total	395,023	372,216
Schedule- 16		
Payments from TAI Fund		
PF Advances	5,144,000	1,712,000
Gratuity Payments	1,810,960	1,000,000
Provident Fund Payments	4,145,734	
Total	11,100,694	2,712,000
Schedule- 17		
Other Payments		
Earnest money	52,000	25,000
Staff Welfare Fund	2,000	7,384
Donation fo medicines	32,954	37,062
General Donations	171,572	-
Ptoject-SMS for sure	827,553	101,600
Project-Acceleration of TB notification	-	80,921
Project-Xpert Ultra	363,221	-
Security deposit	31,320	29,330
Project-Framework of TB care in prison	133,752	-
Training under RNTCP	258,400	
Total	1,872,772	281,297

NEW DELHI TUBERCULOSIS CENTRE

Annexure 1 (for the year ended 31st March 2019)

	Grant-in-aid Salaries	Grant-in-aid General
	(Rs.)	(Rs.)
INCOME		
Opening surplus/(Deficit) (01.04.18)	558	(345,333)
Grant-in-aid from Govt.of India	47,200,000	4,600,000
Maintenance Grants from TAI	-	10,000
Fees from Patients	-	157,500
Interest income	-	199,499
Other receipts	-	70,000
Total	47,200,558	4,691,666
 EXPENDITURE		
Salary & Other Staff expenditure	47,377,522	-
Administrative Expenses	-	4,399,360
Expenses on X-Ray Films, Drugs & Medicines		
and Lab. Consumable	-	369,477
Total	47,377,522	4,768,837
Surplus/(Deficit)	(176,964)	(77,171)
Total Surplus(Deficit) as on 31.03.2019		(254,135)

NEW DELHI TUBERCULOSIS CENTRE

Schedule – 18

Significant Accounting Policies and Notes to Accounts

A. Significant Accounting Policies :

1. Accounting Convention :

The Financial Statements have been prepared on accrual basis (except as specifically stated) and under the historical cost convention, and in accordance with the generally accepted accounting principles in India.

2. Use of Estimates:

The preparation of the Financial Statements in conformity with GAAP in India requires management to make estimates and assumptions, wherever necessary, that affect the reported amount of assets and liabilities and contingent liabilities as at the date of financial statements and the amount of revenue and expenses during the year. Actual results could differ from those estimates. Any revision to such estimates is recognized in the year in which the results are known / materialized.

3. Revenue Recognition:

Income & Expenditures have been accounted for on accrual basis except for leave encasement.

4. Fixed Assets & Depreciation:

- a) Fixed Assets are stated at cost, Assets received as donation are stated at estimated market value on the date of donation.
- b) Centre has started charging Depreciation from the Financial Year 2011-12 on its Fixed Assets as per rate prescribed under Income Tax Act, 1961.
- c) Further, Depreciation has been debited to the Assets Fund by Crediting Cost of respective Fixed Assets.
- d) Capital items having cost / value less than Rupees Five Thousand are not capitalized.
- e) Assets Fund has been credited with the cost/value of Fixed Assets acquired during the year by debiting Income & Expenditure account and / or Project Fund.

5. Inventories:

Laboratory stains, chemicals and glassware and x-ray films & chemicals are valued at purchase price following FIFO method (Refer Note No. 4).

6. Gratuity :

Liability for future payments of Gratuity has been provided for as per the rules of Tuberculosis Association of India (TAI) and said Gratuity Fund is also maintained by TAI.

7. Provident Fund :

As per rules of Tuberculosis Association of India (TAI), accounts relating to Provident Fund of the staff of the Centre have been maintained by the (TAI).

8. Interest Incomes :

Interests earned on the Investments of Earmarked Funds have been credited directly to such Fund instead of Income & expenditure Account.

B. Notes to Accounts

1. In absence of any demands by the Lok Nayak Hospital for water expenses and for electricity charges from May 2018 onwards no liabilities have been provided for.
2. TDS recoverable as on 31st March, 2019 amounting to Rs. 195,567/- for which management is making effort to recover the same from the Tax Department.
3. Title deed of the land on which Buildings are situated is not available.
4. Cost / Value of stock are as valued and verified by the Management.
5. Previous year's figures have been regrouped / rearranged wherever considered necessary.

Admn. Officer
(S.K. Saini)

Director
(Dr. K.K. Chopra)

Financial Adviser
(Dr. V.K. Arora)

Chairman
(Dr. L.S. Chauhan)

Place: New Delhi

Date: 05.10.2018