

NEW DELHI TUBERCULOSIS CENTRE

ANNUAL REPORT

2019 - 2020

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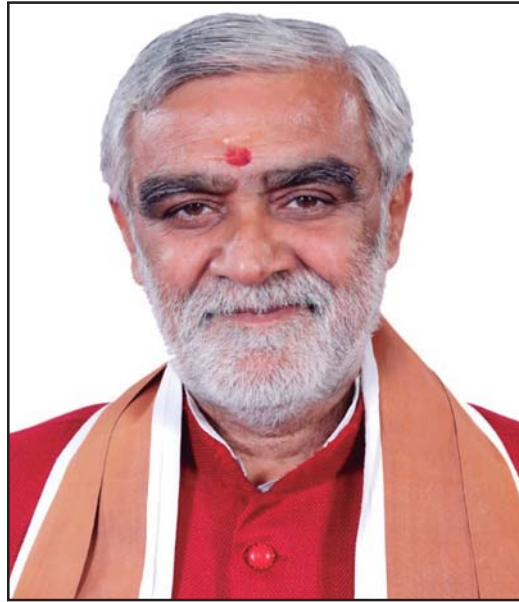
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डॉ. हर्षवर्धन
Dr- Harsh Vardhan
माननीय केंद्रीय मंत्री
Hon'ble Union Minister
स्वास्थ्य एवं परिवार कल्याण मन्त्रालय
Ministry of Health & Family Welfare



श्री अश्विनी कुमार चौबे
Shri Ashwini Kumar Choubey
माननीय राज्य मंत्री
Hon'ble Minister of State
स्वास्थ्य एवं परिवार कल्याण मन्त्रालय
Ministry of Health & Family Welfare

Message from Chairman

New Delhi Tuberculosis Centre was established as a Model TB Clinic on 20th November, 1940. Today the Centre is one of the national level institutes serving TB and respiratory diseases patients and carrying out training, teaching and research activities in the field of TB and Respiratory diseases.

The Centre was designated as STDC for the state of Delhi in the year 2005. Since then, the Centre has been working in close liaison with state TB Control office and is responsible for monitoring and evaluation of National Tuberculosis Elimination Program (NTEP) in the state of Delhi, analysis of quarterly reports, compilation and onward transmission of the feedback reports to Central TB Division, Government of India.



Dr. L.S. Chauhan

The Centre has a quality assured, well-functioning laboratory which was designated as Intermediate Reference Laboratory by Central TB Division in July, 2008. The infrastructure of BSL III lab with newer diagnostic tests like molecular diagnostics, liquid culture and gene sequencing are truly a great step forward in providing better TB diagnostic services to the patients.

The faculty and staff of the Centre is very much committed to the cause of TB and have been continuously putting their efforts to build this as a centre of excellence and complementing the efforts of NTEP in the state to achieve its goal. I express my sincere congratulations to all. I am grateful to the Ministry of Health and Family Welfare, GOI, Central TB Division and Government of Delhi for their support to New Delhi TB Centre.

Dr. L.S. Chauhan
Chairman

From Director's Desk



It gives me immense pleasure to present this edition of annual report of the institute. The report highlights the manifold activities and efforts undertaken to provide high quality patient care, research, teaching, training and support for TB control. The priority has been, as before, to evolve patient friendly and cost effective treatment of TB continued. This included the treatment of HIV/TB co-infection and management of MDR-TB cases. In addition, the Centre is functioning as State TB Training and Demonstration Centre, providing technical support to Delhi state TB Department.

With the prime objective of delivering patient care, the institute had the OPD attendance of about 24,000 patients during the year. More than 61,000 laboratory examinations were carried out as a part of diagnostic support for DR TB cases.

The upgraded Bacteriology department provides expert services to not only TB cases but also in the field of MDR & XDR TB. The LPA facility for rapid diagnosis of MDR TB continued to serve the patients from all parts of North India. The upgraded lab of the institute also started performing base line DST of all MDR cases for second line drugs and has started planning universal DST for all smear positive cases diagnosed in the state. We, at NDTB Centre, won the honor of being first to start this in Delhi State. The Microbiologist, Technical Officers and Laboratory Technicians of the

laboratory are recognized as National trainers of FIND training Programmes and are actively involved in imparting training to staff working all over the country. The Epidemiology Division is carrying out studies to identify risk factors such a use of tobacco in population where TB is endemic and also following the trends of TB control in the state.

The institute contributed to HRD programme through training of about 2,800 state level personnel. Sensitization training in NTEP of post graduate DNB and MPH and MD students of medical colleges and various institutes in Delhi was continued during the year. The institute also continued the successful functioning of revised TB Supervisory course during the year.

World TB Day was celebrated with an opportunity to mobilize political and social environment for further programme. Various activities like health talks, competitions, quizzes were held during a weeklong celebration. All the students and staff participated enthusiastically. The winners and participants were acknowledged with prizes and appreciation certificates.

I acknowledge and appreciate active participation of faculty and technical staff in various meetings, trainings, seminars, internal evaluation visits, conferences, workshop and CMEs. The role of administrative division in ensuring the efficient execution of technical activities is absolutely appreciable.

I am pleased to place before you this Annual report and invite your valuable suggestions to help in improving our efforts. The advent of every new year is an appropriate time for us to evaluate our performance in the past year, identify our performance and move with vigour in pursuing our future goals.

As Director of NDTB Centre, I am grateful & would like to place on record the help, co-operation & grant in aid from the Government of India, Ministry of Health & Family Welfare for the efficient running of the Centre. I also would like to express my grateful thanks to the Chairman, Tuberculosis Association of India, DGHS, Delhi State TB Department. I am also thankful to Chairman, Financial adviser, Secretary General and all the Members of the Managing Committee for their support and help in management of the Centre.

Dr.K.K.Chopra
Director

ABOUT THE INSTITUTE

Started from a humble beginning as a 'Model TB Clinic' providing supportive treatment to TB patients in year 1940 (when no drug was available for treatment of TB), New Delhi Tuberculosis Centre has grown up to the status of an institute of national repute, not only providing diagnosis and treatment of any case of TB and respiratory diseases, it is involved in TB control and monitoring activities also.

At diagnostic front, all diagnostic tests available for TB, from sputum smear microscopy to molecular tests and even latest technique of whole-genome sequencing are available and used for patients as well as research, training and surveillance purpose. The clinical department is providing treatment to all referred and difficult to treat cases of TB and respiratory disease from Delhi and neighbouring states. Epidemiological section supervises and monitors TB control activities and analyse monthly and quarterly data at state level and suggest remedial action to district TB officers in the areas where their programme is lacking. Training section is providing NTEP training to medical and para medical staff of Delhi and neighbouring states. The section also conducts teaching session for medical students and nursing staff of various institutes. ECHO Platform is frequently used for training and programme reviews. This not only saves travel cost of participants but also saves their valuable time for clinical purposes. Our institute is actively involved in basis research, operational research and multi centric studies in field of tuberculosis.

In short main objectives of our institute are :

- i) To perform all functions of State TB Training and Demonstration Centre in Delhi state.
- ii) To promote National TB Elimination Programme in the state of Delhi and to assist formulate strategies which are socially acceptable and economically feasible in order to assist and strengthen the programme.
- iii) To provide outdoor and indoor patient care for patients of TB and respiratory diseases.
- iv) To promote training, teaching and research.

Functions

- i) To Monitor & supervise the performance of the National Tuberculosis Elimination Program in the state of Delhi.
- ii) To supervise external quality assurance of laboratory activities in the State of Delhi.

- iii) To organize training activities for various health workers/personnel involved in the control and management of tuberculosis.
- iv) To supervise and augment IEC activities in the State of Delhi.
- v) To exchange information with other institutions, associations and societies interested in the same objects.
- vi) To prepare, print and publish papers or periodicals in furtherance of the objects of the New Delhi Tuberculosis Centre and to contribute to any such periodicals.
- vii) To provide specialized diagnostic and treatment facilities for tuberculosis and other respiratory diseases.
- viii) To undertake, aid, promote, guide and co-ordinate research activities in the various aspects of Tuberculosis including basic, epidemiological, clinical and operational research.
- ix) To maintain and develop New Delhi Tuberculosis Centre for the purposes of Research, Training, Teaching.

Future plan is to develop the institute and state of art centre for training and add ward for MDR cases as DRTB site.

MANAGING COMMITTEE

Vice- Chairman Tuberculosis Association of India	Chairman
Vice Chairman (Research and Publication) 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
Dr. Raj Kumar Director V P Chest Institute	Member
Dr. Varinder Singh Professor – Padiatric, Kalawati Hospital Lady Harding Medical College	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. Nandini Sharma Director Prof. and Head Community Medicine Department Maulana Azad Medical College	Chairman
Dr. Vishal Khanna Chest Physician and District TB Officer Lok Nayak Hospital	Member
Dr. C.P. Baveja Professor Maulana Azad Medical College	Member
Dr. M. Hanif, K.M Bacteriologist New Delhi Tuberculosis Centre	Member
Dr. Rajesh Kumar Prof. Community Medicine Department Maulana Azad Medical College	Member
Shri Tajinder Ahluwalia Secretary General Tuberculosis Association of India	Member
Mr. Santosh Srivastava Advocate	Member
Dr. Nishi Aggarwal Statistician New Delhi Tuberculosis Centre	Member
Sh. Sree Kumar Pillai Delhi TB Association	Member
Sh. Ved Prakash 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 2019-20, the following research papers have been published or submitted for publications by faculty of the Centre in national and international journals.

1. **Pattern and trends of drug sensitivity in MDR TB cases in Delhi (2009-2014) : A record based study** published in Indian Journal of Tuberculosis, Vol. 66. No 2, 2019, 222-226.
2. **Geriatric TB: Needs focused attention under NTEP**. Editorial published in Indian Journal of Tuberculosis, Vol66 (2019), No 3:515-518.
3. **Diagnosis of Cutaneous TB – Tackling the pitfalls**. Panel discussion moderated in 'Multispecialty approach to cutaneous TB' in CME held in Maulana Azad Medical College on 28th July, 2019.
4. **“End TB Strategy”**. Editorial published in Indian Journal of Tuberculosis. 66(2019):163-164.
5. **“Cross resistance among anti TB Drugs”**. Article published in Tuberculosis Association of India Souvenir 2019.
6. **Partnership in tuberculosis control through involvement of pharmacists in Delhi : An exploratory operational research study**. Paper published in Indian Journal of Pharmacology – Vol51, Issue 3, May-June 2019.
7. **“Changing Climate and Respiratory Diseases”** Editorial published in Indian Journal of Tuberculosis, Vol66 (2019) 431- 432.
8. **“Journey of tuberculosis control in India”**. Paper published in Indian Journal of Tuberculosis, Vol. 66 (2019):178-183.
9. **“Tuberculosis Association of India –In a Torchbearer role”**. Editorial published in Indian Journal of Tuberculosis, Vol. 66 (2019) 505-506.
10. **‘Awareness and perspectives on expansion of latent TB management among public sector physicians and medical trainees in Delhi’**. Paper published in Indian Journal of Tuberculosis, Vol. 67, Issue 2, 2020:208-212.
11. **“Environment, climate and Geriatric population”**. Paper published in Indian Journal of Geriatrics, October 2019. .

12. **‘Newer Diagnostic tests for Tuberculosis : Their utility and limitations’**. Review article published in Current Medical Research and Practice.’ 2020
13. **“Artificial Intelligence and TB Management: Way forward”** Editorial published in Indian Journal of Tuberculosis published in January 2020. 67 (2020)1-2.
14. **‘Tuberculosis in Standard Treatment guidelines’**. Chapters published in Standards of Treatment Guidelines. 2020
15. **“Second line drug susceptibilities of multidrug-and Rifampicin-Resistant Mycobacterium tuberculosis isolates in Delhi”**. Paper Published in Biomedical and Biotechnology Research Journal. Vol3, Issue 2: April-June 2019.
16. **“Drug resistance in tuberculosis: A clinician’s view”** published in “Journal of Mahatma Gandhi Institute of Medical Sciences” Vol. 25; Issue 1:2020;P15-18.

(B) **Research Projects**

1. **Framework for TB Care in Prisons in New Delhi**

The project titled “Framework for TB care in prisons in New Delhi” was successfully completed. Aim of this study was to screen all inmates of Tihar and Rohini Jail via ACF (Active Case Finding) survey for TB symptoms. TB symptomatic cases detected were tested to confirm TB as per the diagnostic algorithm under NTEP. Another objective was to develop a mechanism in consultation with jail authorities whereby the detected TB patients continue their treatment even after he/she is released from the jail. This project was undertaken in collaboration with State TB cell. Idea behind this project was to identify TB cases at Tihar Jail, confirm TB status with CBNAAT (Cartridge Based Nucleic Acid Amplification Technique) and initiate their treatment. This was a two year project whereby Active case finding was undertaken at Tihar and Rohini jail. The study came out with very prominent results. 17965 inmates were interviewed at Tihar and 914 patients reported as symptomatic. Out of these 106 turned out to be TB cases. Similar results were present at Rohini jail whereby 927 inmates were interviewed and 104 reported as symptomatic. This study showed that Active case finding has major benefits when targeted at the high risk group. Another major suggestion from this project was that a mechanism may be developed by the jail authorities whereby as soon as the tenure of inmate/convict is completed/he is released/referred as the case may be, the jail authorities should get in touch with the CMO of the district/Health authorities, where the inmate/convict is going to continue treatment.

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 Bazaar and Hanuman Mandir in CP of New Delhi. After sensitization of field teams, active case find was started in both fields area with the help of New Delhi Municipal Corporation (NDMC) and Pilli Kothi Chest Clinic. A total of 1716 persons were sensitized. Based in 4 symptoms criteria, 256 identified symptomatic were investigated. 30 patients detected as TB and were put on treatment and 12 were under observation.

3. **Effect of Counselling Intervention on Outcome Among MDR – TB Patients In Delhi.**

It is an interventional study. MDR-TB has a high LTFU (Left to follow up) rate and counselling support could be an intervention to reverse it. A professional trained counsellor has been recruited for this purpose. The objectives are to assess to effect of the counselling intervention by :

- (a) Treatment adherence among DR TB patients.
- (b) Loss to follow up among DR TB patients.
- (c) To provide psycho social support to DR TB patients and their family members.
- (d) Early detection of TB among household of patients.
- (e) Linkage the patient with existing social support services.

Till date, 106 MDR cases have been included in the study. The study is in process.

4. **Mapping of Anti-Mycobacterial Drug Resistant Hotspots under National Tuberculosis Elimination Programme (NTEP) in Delhi State.**

The study is being conducted by NDTB Centre and TB Association of India, funded by Delhi state OR Committee. Study was to map out hotspots of Drug Resistant TB cases in Delhi State so as to provide adequate diagnostic and Therapeutic services in the detected area. A trial run was done with help of GIS Agency among 20 MDR cases detected in Central Delhi area. Based on the results, the study will expand to entire Delhi.

5. **BEAT (Building Evidence for Advance Treatment Against Tuberculosis) study:**

Laboratory is actively taking part in BEAT (Building evidence for advance treatment against tuberculosis) research project entitled “To Evaluate the Efficacy and Safety of a Combination regimen of Bedaquiline, Delamanid, Linezolid and Clofazimine in Adults with Pre-extensive (Pre-XDR) and Extensively Drug-resistant Pulmonary Tuberculosis (XDR-TB). This is a prospective Cohort Study being conducted in collaboration with RBIPMT and NIRTD with following objectives:

- a. To evaluate the safety and tolerability of a treatment regimen of 24 – 36 weeks (6-9 months) duration consisting of BDQ, DLM, LZD and CFZ in patients with pre-XDR or XDR-TB.

- b. To determine the time to sputum culture conversion with this combination treatment regimen.
- c. To determine the steady state C_{min} levels of DLM, BDQ and their metabolites at weeks 2, 8 and 16
- d. To explore the steady state pharmacokinetics (PK) of BDQ and DLM in a subgroup of pre-XDR and XDR-TB patients on the combination treatment regimen (intense PK)

6. STREAM (Standard Treatment Regimen of Anti-tuberculosis Drugs for Patients with MDR- TB) study:

STREAM (Standard Treatment Regimen of Anti-tuberculosis drugs for patients with MDR-TB) trial is being conducted in Delhi state in collaboration with Union and Institute of Tropical medicine (ITM), Belgium and for this purpose RBIPMT has been selected as study site along with our laboratory. Our laboratory is providing diagnostic facilities to conduct the trial. This trial is in progress and has following objectives:

To assess whether the proportion of participants with a favourable efficacy outcome at week 76 on regimen consisting of Bedaquiline, clofazimine, Ethambutol, Levofloxacin and Pyrazinamide given for 40 weeks supplemented by isoniazid and prothionamide for the first 16 weeks (intensive phase).

7. National TB Prevalence Survey:

The Central TB Division (CTD), Government of India in collaboration with Indian Council of Medical Research (ICMR), New Delhi, National Institute for Research in Tuberculosis, Chennai and World Health Organization (WHO), India is conducting a National TB Prevalence Survey in India. NIRT Chennai is has been identified as a Nodal and coordinating centre. This national level survey has objective of estimating the point prevalence of pulmonary tuberculosis in India. For this purpose CTD has selected many IRLs and NRLs including our laboratory to participate in the survey and to provide diagnostic facilities. Laboratory received samples from selected clusters and has been processed for culture and drug susceptibility testing.

8. Utility of Stool Cartridge Based Nucleic Acid Amplification Test in Diagnosis of Pulmonary Tuberculosis in Children

This study is being conducted at New Delhi TB Centre in collaboration with LN Hospital. All the patients attending Chest clinic, Lok Nayak hospital are being evaluated for pulmonary TB in Department of Paediatrics will be screened for enrolment. Written informed consent and/or assent will be obtained from those satisfying the study criteria. A detailed history and clinical examination will be done in enrolled cases and routine TB workup including CXR and Mantoux will be done. Gastric aspirate sample (5ml) as well as a Stool sample (5g) will be obtained from these cases. The sample will be processed at the NDTB Centre as per the current operational guidelines. Mycobacterial Growth Indicator tube cultures will be put up from both samples. After the testing process, the data collected will be entered in Microsoft Excel

Sheet and analysed. The categorical variables such as Stool CBNAAT and Gastric Aspirate CBNAAT positives will be expressed as proportions.

9. **Urogenital Tuberculosis in Married Females with Recurrent Urinary Tract Infection**

This study will be conducted in collaboration with MAMC and LN Hospital. The patients will be counselled to collect three consecutive early morning samples in a wide mouthed sterile container under all aseptic conditions. The urine would be processed immediately. Endometrial biopsy will be taken in premenstrual phase from married female patients. The sample would be collected in two different sterile containers under all aseptic conditions, one containing formalin and the second containing normal saline and labelled with full patient details and transported to the laboratory within 4 hours. Urine will be centrifuged and the endometrial biopsy sample will be processed and subjected to the Acid Fast Staining, culture on Lowenstein-Jensen medium and culture on Mycobacterium Growth Indicator Tube (MGIT) and drug sensitivity testing. After the testing process, the data will be entered into MS-EXCEL and data analysis shall be done using SPSS as per the objectives of the study.

10. **Role of Cartridge Based Nucleic Acid Amplification Test (CBNAAT) in the Rapid Diagnosis of Cutaneous Tuberculosis and Detection of Rifampicin Resistance**

This study is being conducted at NDTB Centre in collaboration with MAMC and LN Hospital. The biopsy sample from the lesion of selected patients will be tested by histopathology, CBNAAT and liquid culture. After the testing process, The obtained data will be analysed by SPSS for Windows version 25.0 (SPSS Inc., Chicago,IL, USA) statistical package program.

(C) **Abstracts presented for The Union World Lung Health Conference 2019**

- i. Tuberculosis sample transportation using Indian Postal Services in Delhi, India E-poster presented by Dr. M. Hanif.
- ii. Treatment outcome in Drug Resistance Tuberculosis patients who were offered treatment with shorter multi drug resistance tuberculosis regimen in Delhi-India” Poster presentation by Dr. K.K. Chopra.

PARTICIPATION IN SCIENTIFIC EVENTS

1. A CME was conducted by JEET team in Batra Hospital on 1st April 2019. Dr. K.K. Chopra, Director delivered a lecture on “Treatment of MDR cases”. Dr. Chopra was also the part of the panel discussion where discussion was held on “Issues in involvement of private sector in NTEP”.
2. Delhi State PMDT review meeting was held on 2nd April 2019 in STDC Delhi. Nodal officers of culture DST labs and DRTB centres presented their reports of the quarter. Various issues related to labs and nodal DRTB Centres were discussed.
3. Workshop for staff of referral units of NTEP in medical colleges was held on 4th April, 2019 to discuss status and operational work for referral units.
4. A CME under JEET Project was organised at Balaji Action Hospital on 4th April 2019. Dr. K.K. Chopra, Director attended the CME and delivered a lecture on “TB Notification under NTEP”.
5. A CME was conducted by Delhi TB Association in collaboration with Tech Mahindra Smart Academic institute on occasion of World TB Day. Dr. K.K. Chopra, Director delivered a lecture on “Diagnosis and new diagnostic tools of TB & DR-TB”.
6. A CME under JEET Project was organised at Apollo Hospital on 12th April 2019. Dr. K.K. Chopra, Director attended the CME and delivered a lecture on “TB Notification under NTEP”.
7. A CME was conducted by Delhi TB Association on occasion of World TB Day on 16th April 2019 for all the Doctors empanelled/posted at Aam Aadmi Mohalla Clinics under the Chief District Medical Officer, West District at Aam Aadmi Polyclinic, Paschim Vihar. Dr. K.K. Chopra, Director delivered a lecture on “Diagnosis and new diagnostic tools of TB & DR-TB”.
8. Meeting with representatives of National Collation of Patients Living with HIV was held on 22nd April, 2019. The discussion was about the project “Active case finding among Intravenous drug users”.
9. NTEP Sensitization workshop was held on 23rd April 2019 for Medical Officers of dispensaries of Delhi government at North West District on 23rd April 2019. Dr. K.K. Chopra, Director delivered a lecture on “Diagnosis and Management of TB under NTEP”.
10. Supervisory visit was made to Tihar Jail on 24th April 2019 by Dr. Shanker Matta (Epidemiologist) and Dr. K.K. Chopra (Director) to review the progress of project entitled “Framework of TB Care in Prisons”.
11. A CME under JEET Project was organised at Aakash Super Speciality Hospital, Dwarka on 25th April 2019. Dr. K.K. Chopra, Director attended the CME and delivered a lecture on “TB Notification”.
12. A CME under JEET Project was organised at Apollo Hospital on 26th April 2019. Dr. K.K. Chopra, Director attended the CME and delivered a lecture on “Management of TB under NTEP”.

13. ECHO clinic was conducted from STDC hub on 1st May, 2019. The didactic was on Nikshay and DBT given by Dr. K.K. Chopra, Director-NDTBC. The Nikshay team from Central TB Division also facilitated the discussion. The team discussed and resolved the issues related to Nikshay entries.
14. ECHO immersion training programme was organised by ECHO India team on 2nd May, 2019. The workshop was on Snapshots of ECHO champions running successful ECHO clinics. Dr. K.K. Chopra, Director-NDTBC was one of the speaker of the workshop and presented activities of ECHO clinic for paramedical staff in Delhi state.
15. A CME under JEET Project was organised by Indian Medical Association, South Delhi branch on 3rd May 2019. Dr. K.K Chopra, Director attended the CME and delivered a lecture on “TB Management and Notification under NTEP”.
16. To contribute in a best possible way in National Strategic Plan 2017-2025 for TB elimination in India, a CME was organized by Northern Railway central Hospital on May 13th, 2019. Dr. K.K. Chopra, Director delivered a lecture on “Treatment of Tuberculosis and referral system under NTEP”. More than 30 doctors attended the programme.
17. Under TB Free Rohini Project, Unique App based exercise to screen one lakh population of Haiderpur Village was conducted by Rohini Chest Clinic. 27 ASHA workers working in Haiderpur village were trained by Dr. K.K. Chopra, Director on 14th May, 2019.
18. The FIND India with help of Empower School of Health (Empower) and Union is developing TB Laboratory related e-training contents. To review these lab related e-training contents, a workshop was held at NDTB Centre from 20-22 May 2019. Dr. M. Hanif, Bacteriologist and Dr. Wasim, Technical Officer attended the workshop where they helped to evaluate the e-modules.
19. One day workshop on PFMS was conducted in STDC on 23rd May, 2019. Data Entry Operators of NTEP districts and District Accounts Manager of Revenue district attend the workshop. Facilitators from Central TB Division facilitated the training.
20. A workshop on sensitization for National TB Prevalence Survey for estimating point prevalence of microbiologically confirmed TB cases was organised in NIRT Chennai on 24th May 2019. Dr. K.K. Chopra, Director and Dr. M. Hanif, Bacteriologist attended the workshop.
21. Review meeting of Delhi Sate NTEP for 1st quarter 2019 was held at STDC on 28th May, 2019. Additional Director, Central TB Division reviewed the performance of Delhi NTEP. Dr. K.K. Chopra, Director presented the district wise performance of chest clinics and gave th feedback. Dr. K.K. Chopra, Director also presented in brief about National TB Prevalence Survey to be conducted shortly and explained its methodology for the benefits of DTOs.
22. IRL, NDTB Centre is providing laboratory support to Stream Study. Monitoring team of the project visited the laboratory to assess progress of the project.
23. A CME under JEET Project was organised by Fortis Hospital, Vasant Kunj on 4th June 2019. Dr. K.K Chopra, Director attended the CME and delivered a lecture on “TB Management and

Notification under NTEP”.

24. Dr. M. Hanif, Bacteriologist attended the meeting in Central TB Division on 21st June 2019 to prepare documents as part of disbursement linked indicators (DLIs) of NTEP. The finalized documents have to be submitted to World Bank and subsequently uploaded on the NTEP website.
25. A meeting with representatives of DSAC and NGO VIHAN working in the Yamuna Bazar and Connaught Place area was held on 1st July, 2019. The discussion was about the project “Active case finding among I/V drug users”.
26. A CME under JEET Project was organised at Bhagat Hospital on 3rd July 2019. Dr.K.K Chopra, Director attended the CME and delivered a lecture on “Management of TB”.
27. ECHO clinic was conducted from STDC hub on 3rd July, 2019. The didactic was on ‘New module on treatment supporter payment’ delivered by CTD representatives.
28. ECHO clinic was conducted from STDC hub on 5th July, 2019. The didactic was on ‘Review of status of entries in NIKSHAY AUSHADI PORTAL”, given by Dr. K.K. Chopra, Director-NDTBC.
29. Initial training of project staff under the project entitled project “Active case finding among I/V drug users” was given by Dr. Shanker Matta, Epidemiologist.
30. Delhi Society for Promotion of Rational Use of Drugs (DSPRUD) organised five-day ‘Certificate Course in Infection Prevention and Control’ for nurses from July 08 to 12, 2019 at the Department of Medical Education, Maulana Azad Medical College, New Delhi. During the course, Dr. K.K Chopra, Director taken a session on “Control of TB transmission”.
31. A CME under JEET Project was organised at Jaipur Golden Hospital on 13th July 2019. Dr. K.K Chopra, Director attended the CME and delivered a lecture on “TB Notification”.
32. A sensitization programme for medical and para medical staff of Rohini Jail no. 3 was organized on 15th July 2019. Dr. K.K Chopra, Director and Dr. Shanker Matta, Epidemiologist discussed and briefed them about planning of active case finding in Rohini Jail and sensitized them about TB.
33. Meeting with representatives of Janson Group’s medical adviser and field programme manager was held on 16th July, 2019. The discussion was about the collaboration for ongoing research project “Active case finding in vulnerable groups in Delhi”.
34. A CME under JEET Project was organised at DMA – East Delhi on 19th July 2019. Dr. K.K Chopra, Director attended the CME and delivered a lecture on “TB Management and NTEP”.
35. A CME under JEET Project was organised at Jaipur Golden Hospital on 27th July 2019. Dr. K.K Chopra, Director attended the CME and delivered a lecture on “TB Notification”.
36. CME on Cutaneous Tuberculosis- ‘A Multidisciplinary Approach’ was held on 28th July 2019, at Maulana Azad Medical College. Dr. K.K. Chopra (Director) participated in the CME as a moderator where panel discussion was held on Diagnosis of Cutaneous TB: ‘Tackling the Pitfalls’



Participation in CME on Cutaneous Tuberculosis in Maulana Azad Medical College



Participation in Inauguration of TB Seal at LG House



Participation in Inauguration of TB Seal at LG House



CME on occasion of World TB Day at Hedgeward Hospital

Dr PRJ Gangadharam Award conferred upon Dr Chopra for fight against tuberculosis

■ District Correspondent
WARDHA, Nov 23

DR KAMAL Kishore Chopra, Director, State Tuberculosis Training and Demonstration Centre and New Delhi TB Centre, New Delhi, was conferred with Dr PRJ Gangadharam Award for the year 2019, the 20th in the series of award presentation. The award was presented at the hands of Dhirubhai S Mehta, President, Kasturba Health Society, at a programme organised by Kasturba Health Society and Mahatma Gandhi Institute of Medical Sciences (MGIMS), Sevagram, the other day.

Dr P Narang, Chairperson of Award Committee and Emeritus Professor of Microbiology, informed that the award was instituted at MGIMS by Shakunthala Gangadharam in the fond memory of her late husband Dr PRJ Gangadharam. Dr Ganagadharan was an international figure who had devoted all his life for tuberculosis research and control. The award is presented annually to an Indian scientist who has contributed substantially towards the fight against TB. The award carries a citation, a certificate of honor and cash award of Rs 25,000.

Dr Kamal Kishore Chopra is an acclaimed Respiratory Physician, teacher and researcher. For past three decades, he has dedicated himself in the service of TB patients and disease control. Dr Chopra joined New Delhi TB Centre as



Dhirubhai S Mehta, President, Kasturba Health Society, presenting the award to Dr Kamal Kishore Chopra, Director, State Tuberculosis Training and Demonstration Centre and New Delhi TB Centre, New Delhi.

Medical Officer in 1990 and with his dedicated and committed service, became the Director of the Centre in 2010, the post that he continues to hold today. Dr Chopra's experience in TB research is vast having undertaken more than 24 extramural research projects dealing with varied aspects of tuberculosis like prevalence, Annual Risk of TB infection, HIV-TB co-infection, impact of RNTCP and new diagnostic modalities.

Most praiseworthy is his work among the marginalised communities like child labourers, slum dwellers, prison inhabitants, night shelter population and drug abusers. His scientific interest has placed him as member of various scientific and ethics committees

for framing policies and programmes. He has also contributed over eight chapters on TB in various books and published many articles in National and International journals besides being a reviewer for prestigious scientific publications, informed Dr Narang.

Dhirubhai Mehta in his address said that "Today TB is one of the top 10 causes of death worldwide and the leading cause of death from a single infectious agent (ranking above HIV/AIDS) but with timely diagnosis and treatment it can be cured and onward transmission of infection prevented. With Prime Minister Modi's commitment to end TB epidemic in India by 2025, much wanted con-

certed efforts are ongoing in the programme and never in the history has the disease received so much attention and funds for control as is being done today. With the introduction of new drugs for multidrug resistant TB (MDR), the scenario has become more optimistic and the global pressure on pharmaceutical companies to reduce the cost of these drugs and make them more affordable is showing results. Concorted and extensive efforts must continue at all levels whether big or small."

Dr Chopra in his oration talked about drug resistance in TB. He said that though lot of attention is being given to Multidrug Resistant Tuberculosis (MDR-TB), resistance to single drug is also important and for treatment the resistant drug should be replaced in the regimen with another drug to which the bacteria is sensitive. He informed that when data of patients who had mono resistance to isoniazid and who were treated with first line drugs was reviewed, a failure rate of around 49% and subsequent resistance to rifampicin upto 40% was observed. On the other hand, he also emphasized that diagnosis of MDR-TB should never be made on clinical and radiological criteria alone even if there is no improvement after several months of treatment, added Dr Chopra.

Dr Vijayshree Deotale, Organising Secretary and Head of Department of Microbiology, proposed a vote of thanks.

PRJ Gangadharan Endowment Oration award to Dr. K.K. Chopra



Participation in Zonal Task Force meeting at Rishikesh



Presidential address by Director, NDTBC at 74th NATCON in Chennai



Participation in 74th NATCON in Chennai

37. A CME under JEET Project was organised at MGS Hospital on 30th July 2019. Dr. K.K Chopra, Director attended the CME and delivered a lecture on “Management of TB”.
38. ECHO clinic was conducted from STDC hub on 31st July, 2019. The discussion was held on revised formats of PMDT quarterly reports. The DTOs, MOs and Supervisors attended the clinic.
39. A meeting to discuss implementation of project “Sensitivity of pooled samples in paediatric TB cases” held in Kalawati Saran Hospital on 1st August, 2019. Dr. K.K. Chopra, Director and Dr. M. Hanif, Bacteriologist attended the same.
40. A meeting with medical and para medical staff of jail authorities of Rohini Jail was held on 3rd August 2019 regarding the 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 medical staff.
41. A CME under JEET Project was organised at Sir Gangaram Hospital on 7th August 2019. Dr. K.K Chopra, Director attended the CME and delivered a lecture on “Management of TB”. During the occasion, a DOT Centre in the hospital was inaugurated by Health Minister of Delhi.
42. A meeting to prepare scientific programme of 74th NATCON 2019 was held in TB Association of India on 8th August 2019. Dr. K.K. Chopra, Director attended the meeting as one of the member of the scientific committee.
43. Delhi state NTEP review meeting was held on 9th August 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 NTEP were discussed including challenge in tuberculosis management and Nikshay Entries.
44. The Central TB Division has organised national level NTEP modular training at NITRD from 19th to 31st August, 2019. Dr. K.K. Chopra, Director was the facilitator for the said training from 19th to 25th August, 2019.
45. Delhi State Task Force meeting was held on 21st August 2019 in Maulana Azad Medical College. Faculty of NDTB Centre participated in the meeting as its members. Dr. K.K. Chopra, Director delivered a lecture on ‘TB notification’.
46. A CME under JEET Project was organised at St. Stephens Hospital on 26th August 2019. Dr. K.K Chopra, Director attended the CME and delivered a lecture on “Management of TB”.
47. Director General of Health Services, Government of NCT has organised two days stakeholders workshop to develop Strategic Action Plan to combat antimicrobial resistance (AMR) for Delhi on 26th and 27th August, 2019. Dr. K.K. Chopra, Director attended the said workshop.
48. National training on Programmatic Management of Drug Resistant Tuberculosis (PMDT) was held from 27th to 29th August 2019 in STDC Delhi. Dr. K.K. Chopra, Director was the facilitator during the training programme.

49. Scientific committee meeting of RBIPMT was held on 30th August 2019. Dr. K.K. Chopra, Director, Dr. M. Hanif, Bacteriologist and Dr. Nishi, Statistician attended the meeting as its member.
50. Dr. K.K. Chopra, Director participated in symposium during RSPICON India 2019 and delivered lecture on “Recent advances on lab diagnosis of TB” held in NDMC Convention Centre on 31st August and 1st September, 2019.
51. A meeting to prepare scientific programme of 74th NATCON 2019 was held in TB Association of India on 1st September 2019. Dr. K.K. Chopra, Director attended the meeting as one of the member of the scientific committee.
52. One day training course was conducted for Sr. TB Supervisors of Delhi state under NTEP regarding supply chain and Nikshay Aushadi Updates on 3rd September, 2019. Similar training batches conducted for STS on 5th September and for TB HIV coordinator on 6th September and for DEO on 13th September 2019.
53. TB-HIV coordination review meeting of Delhi state NTEP was conducted on 11th September 2019 in NDTBC. Dr. K.K. Chopra, Director presented district wise data on parameters of TB HIV coordination during the meeting.
54. MOU has been signed between National Tuberculosis Elimination Program (NTEP) GOI and Indian Post Payments Bank (IPPB). To sensitize the postal staff and NTEP staff regarding DBT to TB patients under Nikshay Poshan Yojna, a sensitisation workshop was held on 12th September 2019 in NDTB Centre. Dr. K.K. Chopra, Director explained the modalities of the collaborative framework to postal and NTEP staff.
55. A CME on “Management of TB under NTEP” was organised in Deep Chand Bandhu Hospital by Rohini Chest Clinic. Dr. K.K Chopra, Director attended a CME on 17th September, 2019 and delivered the lecture on “Management of TB under NTEP”.
56. A Digital Adherence Technology evaluation conducted by WHO from 23rd to 25th September, 2019 at Mewat (Haryana). Dr. Shankar Matta, Epidemiologist attended this evaluation.
57. A CME on “Genital TB” was organised in Delhi Gynaecologist forum, Rohini, Delhi. Dr.K.K.Chopra, Director, NDTBC attended a CME on dated 25th September, 2019 and delivered lecture on Management of Genital TB.
58. The President of India released the TB seal in President House on 2nd October, 2019. Dr. K.K. Chopra, Director participated in the event.
59. A workshop was held for General duty Medical Officer of Dispensaries of Delhi Government to sensitize them about diagnosis and management of Latent TB infection in MAMC on 3rd October, 2019. Dr. K.K. Chopra, Director delivered a lecture on “Challenges in Management of LTBI”.
60. A workshop for treatment coordinators of JEET project held in NDTB Centre on 4th October, 2019. Dr. K.K. Chopra, Director delivered a lecture on ‘Adherence for TB cases’.

61. Tuberculosis update was organized by Venkateshwar Hospital, Dwarka on 6th October, 2019 in Raddison Blue Hotel, Dwarka. Dr. K. K. Chopra, Director delivered a talk on 'NTEP where we started and where we reached'.
62. A meeting with representatives of ICMR and STO, Delhi State was held to discuss and plan activities under National Disease Prevalence Survey on 7th October, 2019. Micro planning of conducting the survey in Delhi State clusters was discussed and finalized.
63. A meeting of District DR Committee of NDMC NTEP district held on 14th October, 2019. Dr. K.K. Chopra, Director was special invitee and delivered a talk on "Recent changes in Management of DR TB cases". Various issues of Medical Colleges attached with NDMC Chest Clinic were also discussed.
64. TB Seal Campaign of Delhi State TB Association was organized on 15th October, 2019 in LG House. Dr. K.K. Chopra, Director attended the function and briefed about activities of Delhi TB Association.
65. A workshop to update Nikshay data on DBT and treatment outcome of NTEP patients was held on 21st October, 2019 in NDTB Centre. All the supervisors and Data Entry Operator of three chest clinics along with Delhi State - NTEP staff attended the workshop. Similar workshops were held for others districts on 23rd and 24th October, 2019.
66. Three days workshop to update Guidelines for Management of Extra Pulmonary TB was organized in AIIMS from 22nd to 24th October, 2019. Dr. K.K. Chopra, Director was nominated as an expert for this workshop.
67. Review of Active Case Finding project being conducted by Apollo Tyres industries in Sanjay Gandhi Transport Nagar held on 24th October, 2019. Dr. K.K. Chopra, Director attended the review meeting.
68. World Lung Conference was organized this year in Hyderabad from 31st October to 2nd November 2019. Dr. K.K. Chopra, Director and Dr. M. Hanif, Bacteriologist attended the conference. Dr. Chopra had presentation on "Outcome of short MDR regimen in India" and Dr. Hanif had presentation on "Use of postal services in sputum transport".
69. A workshop to update Nikshay data on DBT and treatment outcome of NTEP patients was held on 5th November, 2019 in NDTB Centre. All the supervisors and Data Entry Operator of three chest clinics along with Delhi State - NTEP staff attended the workshop. Similar workshops were held for others districts on 19th, 21st, 26th and 28th November, 2019.
70. One day training on revised guidelines of PMDT was organised for Medical Officers working in NTEP Delhi at Sidharth Hotel, Delhi on 7th November, 2019. Dr. K.K Chopra, Director attended the training programme and delivered the lecture on "Management of MDR TB in special situations" and "Adverse Drug Reactions".
71. A CME under JEET Project was organised at Indraprastha Apollo Hospital on 8th November 2019. Dr. K.K Chopra, Director attended the CME and delivered a lecture on "Management of TB".

72. Mahatma Gandhi Institute of Medical Sciences, Wardha gives PRJ Gangadharan Endowment Oration to a person for significant contribution in TB Control. This year, the award was given to Dr. K.K. Chopra, Director on 18th November, 2019. During award ceremony, Dr. K.K. Chopra, delivered an oration on “Drug Resistance in TB – A Clinician’s View”.
73. A programme for involvement of NGOs and public leaders in TB control was organised by Delhi TB Association on 23rd November, 2019. Dr.K.K.Chopra, Director delivered a talk on TB Control.
74. Sensitization programme was organised by Central TB Division for training of CGHS Medical Officers of east zone for integration of NTEP in CGHS facilities on 25thand 26thNovember, 2019. Dr. K.K. Chopra, Director delivered a talk of “Management of TB under NTEP”. Similar sensitization programme was also held on 27thand 28th November, 2019 for other zones of CGHS dispensaries of Central Delhi.
75. Video conference by Central TB Division was held on 25th November, 2019 regarding utilisation of mobile van. Dr. K. K. Chopra, Director presented report on utilisation of van in Delhi state.
76. To finalise scientific programme of 74th NATCON, a meeting held on 3rd December, 2019 in TB Association of India. Dr.K.K.Chopra, Director participated as coordinator of scientific programme.
77. A phone-in programme on TB awareness held on AIR Sanjeevani Channel on 4th December, 2019. Dr.K.K.Chopra, Director participated as an expert.
78. ECHO Clinic was conducted on 4th December 2019 from STDC hub regarding sensitization of DTOs about revised formats for Project Implementation Plan (PIP). 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.
79. A community volunteer training programme with aim of “TB Harega Desh Jeetaga” conducted by Delhi TB Association was held on 5th December 2019. Dr. K.K. Chopra, Director delivered a talk on TB Science – with emphasis on TB treatment and prevention.
80. A CME under JEET Project was organised for private practitioners of Paschim Vihar area on 6thDecember 2019. Dr. K.K Chopra, Director attended the CME and delivered a lecture on “Treatment of TB and TB notification”.
81. Shri Sanjeeva Kumar, Special Secretary (H), MOHFW has initiated a task to start NTEP services through the network of CGHS hospitals/ dispensaries/ wellness centres and also CGHS empanelled hospitals/laboratories. For the activity, the sensitization programme was organised for CGHS CMO In charges on 9th December 2019 in North zone of Delhi. Dr. K.K. Chopra, Director delivered a talk on “Management of TB under NTEP.” Similar sensitization was done for South Zone on 11th December, 2019.
82. One day workshop was conducted from STDC on 9th and 13th December 2019 for finalising course curriculum for different categories of staff to be trained by e-modules. Participants from The Union, Central TB Division and WHO attended the workshop.

83. Delhi state NTEP review meeting was held on 10th December 2019 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”.
84. Delhi State PMDT Committee meeting was held on 12th December 2019 in STDC Delhi. All the nodal officers of DRTB sites and DBT labs coordinators presented the activities of their sites.
85. One day CME for resident doctors and faculty of Lady Hardinge Medical College was conducted on 13th December, 2019. Dr. K.K. Chopra, Director delivered a talk on “Recent changes in treatment of drug sensitive and drug resistant TB.”
86. 74th NACTON was held in Chennai from 20th to 22nd December 2019. Dr. K.K. Chopra, Director and Dr. M. Hanif, Bacteriologist attended the conference. Participation of NDTB Centre included :
- Dr. K.K. Chopra nominated as President of 74th NATCON and delivered presidential address.
 - Dr. K.K. Chopra was an expert in ‘Meet the Expert’ session.
 - Dr. K.K. Chopra coordinated workshop on “Evolution of TB Science” and delivered a lecture on “Social determinants of TB”.
 - Dr. K.K. Chopra moderated panel discussion on “End TB Strategy”.
 - Dr. K.K. Chopra and Dr. M. Hanif were panellist in “MDR TB” panel discussion.
 - Dr. K.K. Chopra and Dr. M. Hanif chaired scientific sessions.
87. A CME under JEET Project was organised in Mtd Hospital Model Town for private practitioners on 27th December 2019. Dr. K.K Chopra, Director attended the CME and delivered a lecture on “Management of TB under NTEP”.
88. A CME was organised by R.K. Mission Chest Clinic for the doctors of R.K. Mission Hospital on 30th December 2019. Dr. K.K. Chopra, Director delivered a talk on “Newer NTEP guidelines in Management of TB”.
89. Delhi state guideline for prevention of antibiotic resistance released in a state level function on 3rd January 2020. Dr. K.K. Chopra, Director attended the release programme.
90. A sensitization programme was organised for CGHS CMO In charges on 16th January 2020 in South zone of Delhi. Dr. K.K. Chopra, Director delivered a talk on “Management of TB under NTEP.”
91. A CME under JEET Project was organised for private practitioners of Janak-puri area on 18th January 2020. Dr. K.K Chopra, Director attended the CME and delivered a lecture on “Management of TB”.
92. Two days workshop was held on 20th and 21st January 2020 at NITRD to finalise the NTEP module for medical officers. Participants included faculty of NITRD, NTI, WHO, CTD. Dr. K.K. Chopra, Director participate as one of the experts.

93. A CME was organised in Lady Hardinge Medical College on 31st January, 2020. Dr.K.K. Chopra, Director delivered a lecture on 'TB Notification". About 30 doctors attended the CME.
94. Meeting of Scientific Committee of NATCON was held on 17th February 2020 in TB Association of India to finalise the scientific programme for NATCON. Dr. K.K. Chopra, Director attended the meeting as one of the member of the committee.
95. One day workshop was organized in B.R. Homeopathic Medical College on 20th February 2020. Faculty and resident doctors of the college were sensitized about tuberculosis and its management. Dr. K.K. Chopra, Director delivered a lecture on "TB Management under NTEP". The workshop was organized by Delhi TB Association.
96. 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.
97. Delhi State Task Force meeting of Delhi NTEP was held on 28thFebruary 2020 in Lady Hardinge Medical College. All the 13 medical college representatives presented their activities. Faculty of NDTB Centre participated in the meeting as its members.
98. Echo clinic was held on 3rd March, 2020 from STDC Hub, regarding sensitization of field staff of NTEP regarding implementation of Amikacin in Shorter MDR Regimen.
99. Delhi NTEP review meeting was held on 4th March 2020 in STDC. District wise performance of Delhi state was analysed and presented by Dr. K.K. Chopra, Director. Measures to improve performance of individual chest clinic discussed with respective District TB officer.
100. A CME was organised in Hedgewar Chest Clinic on 5th March, 2020 to celebrate the World TB Day. Dr.K.K. Chopra, Director delivered a lecture on 'Management of TB". About 45 doctors attended the CME.
101. Delhi State PMDT review meeting held in New Delhi TB Centre on 12th March, 2020. Nodal officers of culture and DST Labs and DR TB sites presented their activities in the meeting.
102. The Government Medical College and Hospital, Chandigarh organised CME on 13th March, 2020. Dr.K.K. Chopra, Director delivered a lecture on 'Management of TB".
103. A sensitization workshop for Master Trainers (NRL Microbiologists) for Truenat Machines was held at New Delhi TB Centre, on 17th and 18th March 2020. All NRL Microbiologists participated in this workshop in order to provide cascade training to States and selected sites in districts.

MEETINGS

1. Ethical committee meeting of NITRD was held on 16th April 2019. Dr. K.K. Chopra, Director attended the meeting as its chairman. Seven research projects were discussed and approved during the meeting.
2. A meeting was conducted with representatives from Elsevier (Relx India Pvt. Ltd.) regarding publication of Indian Journal of Tuberculosis. Dr. K.K. Chopra, Director attended the meeting.
3. The Vision Committee meeting of NDTB Centre was held on 22nd May, 2019 in NITRD. Dr. K.K. Chopra, Director presented the proposed vision plan for development of NDTB Centre. Members discussed the plan and gave their opinion.
4. To establish synergy between NDTB, NITRD and VPCI, a meeting was called by Joint Secretary (Health) in his office on 14th June, 2019. Dr. K.K. Chopra, Director attended the meeting. During the meeting the areas were identified where syncroznation can be done between the three institutes in detail.
5. State level meeting for finalizing tender documents for AMC of microscopes were held at IRL (NDTBC), Delhi under the chairmanship of Dr. M. Hanif on 24th June 2019.
6. Dr. K.K. Chopra, Director Dr. M. Hanif, Bacteriologist attended the meeting as an Experts in Central TB Division on 11th July 2019 to review newly prepared E-module of NTEP.
7. Dr. K.K. Chopra (Director) participated in the meeting of TB Association of India on 23rd July 2019. During the meeting, TB Seal design which is to be released on 2nd October 2019 was discussed and finalized.
8. A meeting was held in TB Association of India on 1st August, 2019 regarding Indian Journal of Tuberculosis. Dr. K.K. Chopra, Director and Dr. M. Hanif, Bacteriologist attended the meeting.
9. Ethical committee meeting of NITRD was held on 5th August 2019. Dr. K.K. Chopra, Director attended the meeting. Two research projects were discussed during the meeting and were approved with some modifications.
10. The DRTB Committee meeting of LN DRTB site was held on 6th August 2019. Dr. K.K. Chopra, Director attended the meeting.
11. An Ethical Committee meeting of NDTB Centre was held on 24th September, 2019 at MAMC, New Delhi. A project “Prevalence, risk factors and laboratory diagnosis of non tuberculous mycobacterial (NTM) disease : a multicentre study” was presented by Dr. M. Hanif, Bacteriologist, NDTB Centre and after discussion it was approved with some suggestions.

12. Ethical committee meeting of NITRD was held on 27th September 2019. Dr. K.K. Chopra, Director attended the meeting as alternative Chairman.
13. A Managing Committee meeting of NDTB Centre was held on 22nd October, 2019. Various issues related to staff and pending matters of NDTB Centre were discussed in the meeting.
14. Ethical Committee meeting of NITRD was held on 25th October, 2019. Dr. K.K. Chopra, Director attended the meeting.
15. Meeting with State TB Cell and state consultants was held on 3rd January 2020 regarding various projects to be conducted in Delhi state under NTEP.
16. Meeting of doctors of NTEP Delhi state at PSIO Chankyapuri. Dr. K.K. Chopra, Director attended the meeting.
17. Departmental Promotion Committee meeting of NDTB Centre was held on 8th January, 2020. Case of promotion of staff member was discussed and approved.
18. Meeting of counsellors to develop e-training curriculum on DRTB for various cadres of NTEP staff was held on 10th January 2020 and 31st January 2020 in NDTB Centre. Representative from Central TB Division, ECHO, The Union and the faculty of the Centre participated in the meeting.
19. A meeting to review the IPPB Pilot Project for DBT-NPY in five Chest Clinics of Delhi held on 13th January 2020 in NDTB Centre. Representatives of postal department, NDTBC faculty and DTOs attended the session.
20. To discuss the status of IPPB Pilot Project a review session was called on 29th January 2020 in NDTB Centre where entire team working under JEET project, DTOs and representative from CTD, WHO and STO Office were present. Dr. K.S. Sachdeva, DDG(TB) reviewed the status of the project during the meeting.
21. Ethical committee meeting of NITRD was held on 28th February 2020. Dr. K.K. Chopra, Director attended the meeting. Four research projects were discussed and approved during the meeting.

TRAINING AND MONITORING SECTION

NTEP trainings and workshops are regularly conducted at NDTB for the staff involved in NTEP activities. This year also various trainings were undertaken especially targeting the NTEP staff, nursing as well as paramedical staff. Various sensitization programmes were conducted for nursing students of various colleges regarding NTEP, signs and symptoms of Tuberculosis, diagnosis, treatment modalities, DOTS adoption, MDR TB diagnosis and its treatment. Other topics like infection control for health workers, roles and responsibilities of nursing personnel for care of TB patients and prevention against Tuberculosis were also included in the trainings.

The Centre has training and monitoring section equipped with an auditorium, a conference room and a lecture hall and modern audio-visual activities. New Delhi Tuberculosis Centre as STDC conducts training courses for medical and paramedical staff on various aspects of NTEP. This year also, various training activities were undertaken, details of which are mentioned below :

These training activities were targeted at

- i. Nursing staff from various nursing colleges
- ii. Medical officers working at various chest clinics of Delhi
- iii. Paramedical NTEP staff
- iv. Interns
- v. Others (NGO's, etc)

The details of trainings are given below :

1. DBT Training cum Review was held on 3rd April 2019 to resolve the issues related to DBT to TB patients and health care providers of individual Chest Clinics. The training cum review was attended by DTOs, Supervisors and Data Entry Operator of chest clinics. Similar workshops were held on 5.4.2019, 8.4.2019, 10.4.2019, 12.4.2019 and 16.4.2019.
2. Thirty Nine students from Galgotia College of Nursing, B.Sc. Ist year were sensitized about policies of NTEP and management of TB in detail on 4th April 2019.
3. Forty staff members i.e. teachers of SKV School, Zeenat Mahal, Kamla Market were given awareness on 30th April, 2019 regarding TB as a disease, its prevention and control, treatment, signs and symptoms etc. in detail.
4. Dr. Shanker Matta, Epidemiologist and Mrs.Gurpreet Kaur, PHN visited Saraswati Kanya Vidhyalaya, Zeenat Mahal where they sensitized the students of 8th class regarding TB, its treatment, prevention and control on 1st May 2019.

5. Dr.Shanker Matta, Epidemiologist and Mrs.Gurpreet Kaur, PHN visited Francis School and Victors School on 5th May, 2019. They sensitized the teaching and non teaching staff of the school regarding TB, its treatment, prevention and control.
6. Dr.Shanker Matta, Epidemiologist and Mrs.Gurpreet Kaur, PHN visited Saraswati Kanya Vidhyalaya, Zeenat Mahal on 13th May, 2019. They sensitized the teaching and non teaching staff of the school regarding TB, its treatment, prevention and control.
7. Medical Officers of Mohall Clinics in Delhi were trained on 11th June, 2019 regarding the utilizations of their facilities for pre-treatment evaluation of drug resistant cases. The training was also attended by CDMOs and DTOs of respective zones. Training was facilitated by faculty of STDC and Delhi state TB Cell. Similar trainings were also held on 13.6.2019, 20.6.2019, 25.6.2019 and 27.6.2019.
8. Third year post basic Nursing students from IGNOU CON visited on the Centre on 18th June, 2019. They were sensitized regarding NTEP and TB in detail. About 22 students attended the programme.
9. Staff from Mahindra Tech SMART Academy attended sensitization programme regarding NTEP on 26th June, 2019. These seven trainers were faculty for various programmes like OT Training, X-ray Training and MLT etc.
10. Staff of ART Centres of Delhi state was trained on 9th July, 2019 regarding updating of TB entries in Nikshay. The training was also attended by MOs, Counsellors, DEOs and staff nurses of ART Centres. Training was facilitated by faculty of STDC and Delhi state TB Cell. Similar trainings were also held on 11.7.2019, 16.7.2019 and 18.7.2019.
11. Two school activities conducted at SKV School, Darya Ganj for school students to sensitize them regarding TB –disease, its treatment and prevention. About 180 students of 9th, 10th and 11th classes were sensitized on 4th and 18th July 2019.
12. Sensitization programme held for B.Sc nursing students from Galgotia College of Nursing on 26th July 2019. Twenty eight 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.
13. Students of class 12th from Saraswati Kanya Vidhyalaya, Daryaganj were given health information and education about prevention of TB, its control and treatment on 7th August, 2019.
14. Sensitization programme held for B.Sc nursing students from Galgotia College of Nursing on 23rd August 2019. 273rd year B.Sc Nursing students and four tutors of nursing college 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.

15. Sensitization programme held for M.Sc final year nursing students from RAK College of Nursing on 29th August 2019. Four 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.
16. Sensitization programme held for nursing students from Salokaya College of Nursing on 3rd September 2019. 53 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.
17. Sensitization programme held for B.Sc nursing students from Galgotia College of Nursing on 26thSeptember 2019. 35B.Sc Nursing students (2nd year) 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.
18. Training of District PMDT and TB/HIV Coordinators and Statistical Assistant on Revised PMDT Guidelines under NTEP was held on 23rd September, 2019 in NDTB Centre. Similar batches were also held for STS on 26th September and for STLS on 27th September 2019.
19. Sensitization programme was held for 2nd year B.Sc nursing students from SGT College of Nursing, Gurgaon on 3rd October, 2019. 58 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.
20. Sensitization programme held for nursing students from Lady Reading Health School on 30th October, 2019. 18 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.
21. One day re-training programme on Revised PMDT Guidelines was organised in STDC for TBHV, laboratory technicians and DOT providers of Delhi state on following dates :
 - 4th November 2019
 - 6th November 2019
 - 8th November 2019
 - 11th November 2019
 - 14th November 2019
 - 15th November 2019
 - 18th November 2019
 - 25th November 2019
 - 27th November 2019



Quarterly NTEP review meet at STDC



Delhi State Operational Research Committee meeting at STDC



National Master Trainers training of Microbiologist for Truenat NDTBC



National Master Trainers training of Microbiologist for Truenat in NDTBC

22. Sensitization programme held for 2nd year B.Sc nursing students from Holy Family College of Nursing, Noida on 5th November, 2019. 55 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.
23. Sensitization programme held for combined group of B.Sc and M.Sc nursing students from Bombay Hospital and Sir HN Hospital College of Nursing Mumbai on 7th November, 2019. 75 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.
24. Training was conducted on Revised PMDT Guidelines for TB Health Visitors, DOT Providers and Laboratory Technicians on 3rd and 5th December 2019. About 70 trainees attended the training.
25. Sensitization programme held for nursing students from Holy Family College of Nursing on 9th January 2020. 38 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.
26. Sensitization programme held for nursing students from Nightingale College of Nursing, Noida on 22nd January 2020. 50 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.
27. Sensitization programme held for Auxillary Nurse and Midwifery students from Lady Reading Health School on 30th and 31st January 2020. 41 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.
28. Sensitization workshop on tuberculosis programme under NTEP was held on 4thFebruary 2020 for Nursing Students of Nightingale College of Nursing (4th year B.Sc nursing students). They were sensitized about care of TB patients under NTEP in detail i.e. TB as a disease, treatment modalities etc. and also role of nurse for care of TB patients.
29. Training of Trainers for NTEP (pediatric guidelines) was organized for North Zone on 9th February 2020 in India Habitat Centre. Dr. K.K. Chopra, Director participated as Delhi state representative.
30. One day training was organized on 10th February 2020 for pharmacist and staff nurses of North Zone CGHS dispensaries in office of Additional Director, North Zone, CGHS. Dr. K.K.

Chopra, Director conducted sensitization session on TB and NTEP and CTGHS integration.

31. Sensitization workshop on tuberculosis programme under NTEP was held on 17th February 2020 for Nursing Students of Galgotias School of Nursing (1st year B.Sc, nursing students). They were sensitized about care of TB patients under NTEP in detail i.e. TB as a disease, treatment modalities etc. and also role of nurse for care of TB patients.

**Details of Trainings held for at New Delhi TB Centre (STDC)
from 01st April 2019 to 31st March 2020**

S.No.	Training	No. of Participants
1	NTEP personnel (Medical and Para Medical)	1736
2	Medical interns of medical colleges	233
3	PG residents of medical colleges	22
4	Nursing students of different colleges	682
	Total	2673

**Table: Details of Trainings held for NTEP personnel (Medical and Para Medical) at
New Delhi TB Centre (STDC) from 01st April 2019 to 31st March 2020**

S.No.	Training	Period		Days	No. of Participants
1	Delhi State PMDT (programmatic management for drug-resistant tuberculosis) review and sensitization on new strategies under NTEP	02.04.2019	02.04.2019	1	36
2	Workshop for District teams regarding DBT, HIV and Treatment Outcome entries in Nikshay (Batch 1)	03.04.2019	03.04.2019	1	23
3	Workshop of Delhi State Medical colleges NTEP referral Units regarding TB Cases referral Process	04.04.2019	04.04.2019	1	20
4	Workshop for District teams regarding DBT, HIV and Treatment Outcome entries in Nikshay - (Batch 2)	05.04.2019	05.04.2019	1	18

5	Workshop for District teams regarding DBT, HIV and Treatment Outcome entries in Nikshay- (Batch 3)	08.04.2019	08.04.2019	1	21
6	Workshop for District teams regarding DBT, HIV and Treatment Outcome entries in Nikshay - (Batch 4)	10.04.2019	10.04.2019	1	20
7	Workshop for District teams regarding DBT, HIV and Treatment Outcome entries in Nikshay - (Batch 5)	12.04.2019	12.04.2019	1	19
8	Workshop for District teams regarding DBT, HIV and Treatment Outcome entries in Nikshay –(Batch 6)	16.04.2019	16.04.2019	1	20
9	Practical session for Regional Biomedical Engineers (RBME) and review at BSL 3 laboratory	01.05.2019	03.05.2019	1	14
10	Practical session for Regional Biomedical Engineers (RBME) and review at BSL 3 laboratory	20.05.2019	22.05.2019	1	24
11	PFMS Training under Delhi State NTEP	23.05.2019	23.05.2019	1	38
12	Sensitization on improving performance of individual chest clinics regarding status of HIV, UDST in Nikshay	28.05.2019	28.05.2019	1	34
13	Sensitization workshop / training of Aam Aadmi Mohalla Clinic (AAMC) Medical Officers under Delhi State NTEP (Batch 1)	11.06.2019	11.06.2019	1	23
14	Sensitization workshop / training of Aam Aadmi Mohalla Clinic (AAMC) Medical Officers under Delhi State NTEP (Batch 2)	13.06.2019	13.06.2019	1	9
15	Sensitization workshop / training of Aam Aadmi Mohalla Clinic (AAMC) Medical Officers under Delhi State NTEP (Batch 3)	20.06.2019	20.06.2019	1	42

16	Sensitization workshop / training of Aam Aadmi Mohalla Clinic (AAMC) Medical Officers under Delhi State NTEP (Batch 4)	25.06.2019	25.06.2019	1	32
17	Sensitization programme of Tech. Mahindra Smart Academy for Health care officials under Delhi State NTEP	26.06.2019	26.06.2019	1	7
18	Sensitization workshop / training of Aam Aadmi Mohalla Clinic (AAMC) Medical Officers under Delhi State NTEP (Batch 5)	27.06.2019	27.06.2019	1	39
19	Delhi State sensitization programme for field workers regarding ACF among intravenous drug user under NTEP	08.07.2019	08.07.2019	1	21
20	Training on Nikshay Version 2 of ART Centre Medical Officers, Data Managers & Staff Nurses (Batch 1)	09.07.2019	09.07.2019	1	12
21	Training on Nikshay Version 2 of ART Centre Medical Officers, Data Managers & Staff Nurses (Batch 2)	11.07.2019	11.07.2019	1	9
22	Training on Nikshay Version 2 of ART Centre Medical Officers, Data Managers & Staff Nurses (Batch 3)	16.07.2019	16.07.2019	1	23
23	Training on Nikshay Version 2 of ART Centre Medical Officers, Data Managers & Staff Nurses (Batch 4)	18.07.2019	18.07.2019	1	33
24	Delhi state sensitization cum review meeting of DTOs under NTEP	09.08.2019	09.08.2019	1	36
25	Delhi state sensitization cum review meeting on PMDT of DTOs and Medical officers under NTEP	22.08.2019	22.08.2019	1	33
26	Training on supply Chain and Nikshay Aushadhi of STSs, District PMDT and TB/HIV Coordinators, Statistical Assistant , & DEOs (Batch 1)	03.09.2019	03.09.2019	1	20

27	Training on supply Chain and NikshayAushadhi of STSs, District PMDT and TB/HIV Coordinators, Statistical Assistant , & DEOs (Batch 2)	05.09.2019	05.09.2019	1	26
28	Training on supply Chain and NikshayAushadhi of STSs, District PMDT and TB/HIV Coordinators, Statistical Assistant , & DEOs (Batch 3)	06.09.2019	06.09.2019	1	27
29	TB-HIV site technical group meeting and sensitization under NTEP	11.09.2019	11.09.2019	1	29
30	Sensitization of postal and NTEP staff regarding DBT to patients under Nikhsay Poshan yojna programme in Delhi	12.09.2019	12.09.2019	1	76
31	Training on supply Chain and Nikshay Aushadhi of STSs, District PMDT and TB/HIV Coordinators, Statistical Assistant , & DEOs (Batch 4)	13.09.2019	13.09.2019	1	27
32	Training of District PMDT and TB/ HIV Coordinators, Statistical Assistant , STSs, & STLs on Revised PMDTGuidelines (Batch 1)	23.09.2019	23.09.2019	1	33
33	Training of District PMDT and TB/ HIV Coordinators, Statistical Assistant , STSs, & STLs on Revised PMDTGuidelines (Batch 2)	26.09.2019	26.09.2019	1	39
34	Training of District PMDT and TB/ HIV Coordinators, Statistical Assistant , STSs, & STLs on Revised PMDTGuidelines (Batch 3)	27.09.2019	27.09.2019	1	37
35	Workshop on national disease prevalence survey for DTOs and Supervisors of Delhi	7.10.2019	7.10.2019	1	33

36	Retraining of Supervisors and Data Entry Operators on Nikshay and new modalities under NTEP (Batch 1)	21.10.2019	21.10.2019	1	13
37	Retraining of Supervisors and Data Entry Operators on Nikshay and new modalities under NTEP (Batch 2)	23.10.2019	23.10.2019	1	14
38	Retraining of Supervisors and Data Entry Operators on Nikshay and new modalities under NTEP (Batch 3)	24.10.2019	24.10.2019	1	13
39	Training on Revised PMDT guidelines of TBHV/DOT Provider & Lab Technicians (Batch 1)	04.11.2019	04.11.2019	1	31
40	Retraining of Supervisors and Data Entry Operators on Nikshay and new modalities	05.11.2019	05.11.2019	1	18
41	Training on Revised PMDT guidelines for TBHV/DOT Provider & Lab Technicians (Batch 2)	06.11.2019	06.11.2019	1	31
42	Training on Revised PMDT guidelines for TBHV/DOT Provider & Lab Technicians (Batch 3)	08.11.2019	08.11.2019	1	28
43	Training on Revised PMDT guidelines for TBHV/DOT Provider & Lab Technicians (Batch 4)	11.11.2019	11.11.2019	1	34
44	Training on Revised PMDT guidelines for TBHV/DOT Provider & Lab Technicians (Batch 5)	14.11.2019	14.11.2019	1	33
45	Training on Revised PMDT guidelines for TBHV/DOT Provider & Lab Technicians	15.11.2019	15.11.2019	1	33
46	Training on Revised PMDT guidelines for TBHV/DOT Provider & Lab Technicians (Batch 6)	18.11.2019	18.11.2019	1	29
47	Retraining of Supervisors and Data Entry Operators on Nikshay and new modalities	19.11.2019	19.11.2019	1	15

48	Retraining of Supervisors and Data Entry Operators on Nikshay and new modalities	21.11.2019	21.11.2019	1	16
49	Training on Revised PMDT guidelines for Lab Technicians (Batch 1)	25.11.2019	25.11.2019	1	37
50	NTEP sensitization for CMO incharge of CGHS dispensaries of east zone	25.11.2019	26.11.2019	2	26
51	Retraining of Supervisors and Data Entry Operators on Nikshay and new modalities under NTEP	26.11.2019	26.11.2019	1	17
52	NTEP sensitization for CMO incharge of CGHS dispensaries of central zone	27.11.2019	28.11.2019	2	22
53	Training on Revised PMDT guidelines for Lab Technicians (Batch 2)	27.11.2019	27.11.2019	1	37
54	Retraining of Supervisors and Data Entry Operators on Nikshay and new modalities	28.11.2019	28.11.2019	1	14
55	Training on Revised PMDT guidelines for Lab Technicians (Batch 3)	29.11.2019	29.11.2019	1	38
56	Training on Revised PMDT guidelines for Lab Technicians (Batch 4)	03.12.2019	03.12.2019	1	38
57	Training on Revised PMDT guidelines for Lab Technicians (Batch 5)	05.12.2019	05.12.2019	1	33
58	NTEP sensitization of CMO incharge of CGHS dispensaries of north zone	09.12.2019	09.12.2019	1	26
59	Delhi State workshop cum review meet	10.12.2019	10.12.2019	1	36
60	Delhi State PMDT review meeting and workshop	12.12.2019	12.12.2019	1	34

62	Delhi state sensitization cum review meeting of DTOs	04.03.2020	04.03.2020	1	43
63	Delhi state sensitization cum review meeting on PMDT of DTOs and Medical officers	12.03.2020	12.03.2020	1	38
64	Truenat Workshop for Master trainers of Microbiologists of NRL	17.03.2020	18.03.2020	2	36
	TOTAL			66	1736

Interns' trainings/Sensitizations are conducted round the year at NDTB. Interns of MAMC are posted in the Clinical Section of NDTB round the year whereby they are exposed regarding NTEP, DRTB management and functioning of DOTS centre. This year 233 interns were posted at NDTB between April 2019 to March 2020 and were trained/sensitized on various aspects as mentioned below :

Trainings/Sensitization held for Medical interns of Maulana Azad Medical College at New Delhi TB Centre (STDC) from 1st April, 2019 to 31st March 2020

S.No.	Period		No. of Participants
	From	To	
1.	08.04.2019	13.04.2019	25
2.	02.08.2019	02.08.2019	25
3.	24.08.2019	24.08.2019	25
4.	01.09.2019	07.09.2019	4
5.	08.09.2019	15.09.2019	4
6.	16.09.2019	22.09.2019	5
7.	23.09.2019	30.09.2019	5
8.	01.10.2019	07.10.2019	5
9.	08.10.2019	15.10.2019	5
10.	16.10.2019	22.10.2019	5
11.	23.10.2019	31.10.2019	5
12.	01.11.2019	07.11.2019	6
13.	01.11.2019	15.11.2019	1
14.	08.11.2019	15.11.2019	5
15.	16.11.2019	22.11.2019	4
16.	23.11.2019	30.11.2019	4

17.	01.12.2019	07.12.2019	5
18.	08.12.2019	15.12.2019	5
19.	16.12.2019	22.12.2019	4
20.	23.12.2019	31.12.2019	4
21.	01.01.2020	07.01.2020	5
22.	08.01.2020	16.01.2020	5
23.	16.01.2020	22.01.2020	5
24.	23.01.2020	31.01.2020	5
25.	01.02.2020	07.02.2020	5
26.	08.02.2020	15.02.2020	5
27.	12.02.2020	25.02.2020	25
28.	16.02.2020	22.02.2020	6
29.	23.02.2020	29.02.2020	5
30.	01.03.2020	07.03.2020	5
31.	08.03.2020	15.03.2020	5
32.	16.03.2020	22.03.2020	4
33.	23.03.2020	31.03.2020	2
	TOTAL		233

New Delhi Tuberculosis Centre is also engaged in training and guiding of postgraduate students posted from the Maulana Azad Medical College, Department of community Medicine. A one week posting for all post-graduate students, whereby they were posted in various departments of NDTB Centre round the year. Idea behind this is to equip the students with the recent guidelines and functioning of NTEP along with a practical exposure. The exposure covered various topics like Nikshay, DRTB management, TB notification and its significance, clinical management of TB patients etc. The Epidemiology section was involved in training 22 students from Preventive and Social Medicine department, MAMC between September 2019 to January 2020 as detailed below :

Trainings/ Sensitization held for PG residents of Maulana Azad Medical College (Department of Community Medicine) at New Delhi TB Centre (STDC) from 1st April 2019 to March 2020

S.No.	Period		No. of Participants
	From	To	
1.	02.09.2019	08.09.2019	1
2.	09.09.2019	15.09.2019	1
3.	16.09.2019	22.09.2019	1

4.	23.09.2019	29.09.2019	1
5.	30.09.2019	06.10.2019	1
6.	07.10.2019	13.10.2019	1
7.	14.10.2019	20.10.2019	1
8.	21.10.2019	27.10.2019	1
9.	28.10.2019	03.11.2019	1
10.	04.11.2019	10.11.2019	1
11.	11.11.2019	17.11.2019	1
12.	18.11.2019	24.11.2019	1
13.	25.11.2019	01.12.2019	1
14.	02.12.2019	08.12.2019	1
15.	09.12.2019	15.12.2019	1
16.	16.12.2019	22.12.2019	1
17.	23.12.2019	29.12.2019	1
18.	30.12.2019	05.01.2020	1
19.	06.01.2020	12.01.2020	1
20.	13.01.2020	19.01.2020	1
21.	20.01.2020	26.01.2020	1
22.	27.01.2020	02.02.2020	1
		TOTAL	22

Another vital activity in the Centre during the year was the sensitization of nursing students from various nursing colleges of India. This year, 18 training /sensitization sessions were conducted for 682 nursing students from around the country various colleges.

Trainings/ Sensitization held for Nursing students of different colleges at New Delhi TB Centre (STDC) from 1st April 2019 to March 2020

S.No.	Training	Period		Days	No. of Participants
		From	To		
1.	NTEP sensitization programme for 1st Year Bsc nursing Students from Galgotia College for Nursing	04.04.2019	04.04.2019	1	38

2.	NTEP sensitization programme for nursing Students for LHV from Lady Reading Health School for Nursing	18.06.2019	18.06.2019	1	22
3.	NTEP sensitization programme for nursing Students for 4th Year Bsc from Galgotias College for Nursing Greater Noida	26.07.2019	26.07.2019	1	28
4.	NTEP sensitization programme for nursing Students for 3rd Year Bsc from Galgotias College for Nursing Greater Noida	23.08.2019	23.08.2019	1	27
5.	NTEP sensitization programme for nursing Students for Msc Final from RAK College for Nursing	29.08.2019	29.08.2019	1	4
6.	NTEP sensitization programme for nursing Students for 3rd Year Bsc from Salokias College for Nursing Rithala Delhi	03.09.2019	03.09.2019	1	53
7.	NTEP sensitization programme for nursing Students for 2nd Year Bsc from Galgotias College for Nursing Greater Noida	26.09.2019	26.09.2019	1	35
8.	NTEP sensitization programme for B.Sc nursing students from SGT College of Nursing, Gurgaon	3.10.2019	3.10.2019	1	58
9.	NTEP sensitization programme for 2 nd year B.Sc nursing students from nursing students from Lady reading Health School	30.10.2019	30.10.2019	1	18
10.	NTEP sensitization programme for Nursing Students from Holy Family Hospital	05.11.2019	05.11.2019	1	55
11.	Sensitization programme held for combined group of B.Sc and M.Sc nursing students from Bombay Hospital and Sir HN Hospital College of Nursing Mumbai	07.11.2019	07.11.2019	1	75

12.	NTEP sensitization of GNM – 2 nd year student of Holy Family College of Nursing	09.01.2020	09.01.2020	1	38
13.	NTEP sensitization of pharmacists and staff nurse of CGHS dispensaries of south zone	16.01.2020	16.01.2020	1	30
14.	NTEP sensitization of Nightingale College of Nursing, Noida – GNM 2 nd year students	22.01.2020	22.01.2020	1	50
15.	NTEP sensitization of ANM (Auxillary Nurse and Midwifery) students from Lady Reading Health School	30.01.2020	30.01.2020	1	41
16.	NTEP sensitization of Nightingale Institute of Nursing, Noida – B.Sc. 4 th year students	04.02.2020	04.02.2020	1	44
17.	NTEP sensitization of B.Sc. nursing – 1 st year students of School of Nursing, Galgotia University	17.02.2020	17.02.2020	1	41
18.	NTEP sensitization of GNM nursing – 3 rd year students of Jamia Hamdard Rufaida College of Nursing	03.03.2020	03.03.2020	1	25
	TOTAL				682

Analysis of Quarterly Cohort Reports

Compilation and preparation of quarterly reports (Sputum Conversion, Treatment Outcome and Programme management) of all chest clinics under NTEP 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.

District Wise Total TB Case Notification in Delhi State from 1/1/2019 to 31/12/2019

S.No	Name of Chest Clinic	TB Cases Notified from Public Sector	TB Cases notified from Private Sector
1	Bijwasan	758	1010
2	BJRM Chest Clinic	1738	288
3	BSA Chest Clinic	3242	8535
4	CD Chest Clinic	1712	1156
5	DDU Chest Clinic	2330	216
6	GTB Chest Clinic	3678	1175
7	GulabiBagh	4347	929
8	Hedgewar Chest Clinic	1090	117
9	Jhandewalan	1634	555
10	Karawalnagar	774	382
11	KCC	3033	693
12	LN Chest Clinic	2975	740
13	NITRD	5222	360
14	MNCH Chest Clinic	13543	812
15	Moti Nagar	3870	652
16	Narela	3826	2170
17	NDMC	5661	446
18	Nehru Nagar	4746	2175
19	Parparganj	4083	934
20	RK Mission	1313	1364
21	RTRM Chest Clinic	1371	488
22	SGM Chest Clinic	2448	279
23	Shahdara	2357	504
24	SPM Marg	1206	914
25	SPMH Chest Clinic	3050	1234
	Total	80007	28128

In all a total of 1,08,135 cases were notified from Delhi State which includes 80,007 cases from Public sector and 28,128 from private sector from 1st January 2019 to 31st December, 2019.

**Outcome of Registered TB cases under NTEP in Delhi State
from Public and Private Sector during 2019.**

District Name	Total Notified	Total Outcome Assigned	Cured	Died	Treatment Complete	Treatment Outcome	Treatment Regimen Changed	Lost of Follow Up	Not Evaluated
Bijwasan	758	369	200	12	79	16	32	29	1
BJRM	1738	1310	358	52	798	7	25	60	10
BSA	3242	2111	461	70	1319	17	64	158	22
CD Chest Clinic	1712	1199	382	33	621	18	57	80	8
Narela Chest Clinic	2330	1790	552	56	913	48	33	186	2
DDU Chest Clinic	3678	2443	644	68	1421	26	102	153	29
GTB Chest Clinic	4347	2764	661	83	1793	22	77	109	19
GulabiBagh	1090	772	202	31	439	2	42	46	10
Hedgewar	1634	741	303	20	343	2	45	23	5
Jhandewalan	774	385	95	—	206	10	33	33	1
Karawal Nagar	3033	1725	477	38	1059	12	82	56	1
KCC	5593	3491	986	152	1991	25	167	156	14
LN H	5222	2202	517	111	1324	20	76	133	21
NITRD	13543	5367	1414	246	3071	58	225	268	85
MNCH	3870	1384	341	38	852	17	51	73	12
Moti Nagar	3826	2267	672	40	1333	10	86	93	33
NDMC	5661	2710	754	70	1515	16	119	200	36
Nehru Nagar	4746	3156	1010	42	1722	23	144	179	26
Patparganj	4083	1997	697	54	1024	22	109	74	17
RK Mission	1313	755	247	34	373	4	49	25	23
RTRM	1371	978	497	39	358	8	32	39	5
SGM	2448	1814	355	68	1215	2	77	85	12
Shahdara	2357	1497	359	50	901	16	68	94	9
SPM Marg	1206	768	214	23	425	23	22	58	3
SPMH	3050	851	232	13	524	7	35	38	2
Total	82625	44846	12630	1443	25619	431	1852	2448	406

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 functioning as 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, HSP, ABPA, Sarcoidosis, Pulmonary hydatidosis and Malignancy, alongwith 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 year 2019-20, total of 24025 patients seen and managed. 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, 132 interns of MAMC, 202 MBBS under-graduates of MAMC and 56 TB HV students of NDTBC have been trained here. They attended regular teaching activities, including 21 seminars and 44 clinical case discussions, 48 Journal Reviews and 28 Case Reviews. Hypersensitivity Pneumonitis and COVID-19 were the key focus areas 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. Hands on clinical training in the field of pulmonary medicine, radiology and TB are the strong point of the OPD running at the Centre. Due emphasis on history taking and correct diagnosis involving basic clinical skills and radiology along with sputum examination is followed day in and day out.

The following seminars / case discussions / reviews were conducted this year :-

CLINICAL SKILLS

1. Clinical manifestation in pulmonology
2. Chronic cough& its cases
3. Dyspnoea
4. Haemoptysis and its differentials.
5. Auscultation
6. History Taking
7. Common pulmonary signs
8. Bed side pulmonary function tests
9. Chest X-ray

TUBERCULOSIS

1. Laboratory diagnosis of TB
2. Pulmonary TB
3. How to diagnose extra-pulmonary TB
4. TB in special populations: children, pregnancy and elderly
5. TB in special conditions: diabetes, HIV & co morbidities
6. Ant tubercular therapy (ATT) / Side-effects of ATT
7. Management of Drug Resistant TB (MDR & XDR)
8. Programmatic management of TB (NTEP) / PMDT
9. New diagnostic tests / New drugs in TB

OTHER

1. Asthma : GINA guidelines
2. COPD : GOLD guidelines
3. Occupational Lung Disease / Hypersensitivity Pneumonitis / ABPA
4. Pulmonary infections / Community acquired pneumonias
5. Brochiectasis and its management
6. Inhalational treatment & Devices
7. Atypical pulmonary infections
8. Pulmonary Rehabilitation
9. Sarcoidosis
10. Pleural effusion
11. Approach to a patient of cystic lung disease
12. Hypersensitivity Pneumonitis
13. Clinical presentation and diagnostic tests presentations on Covid-19

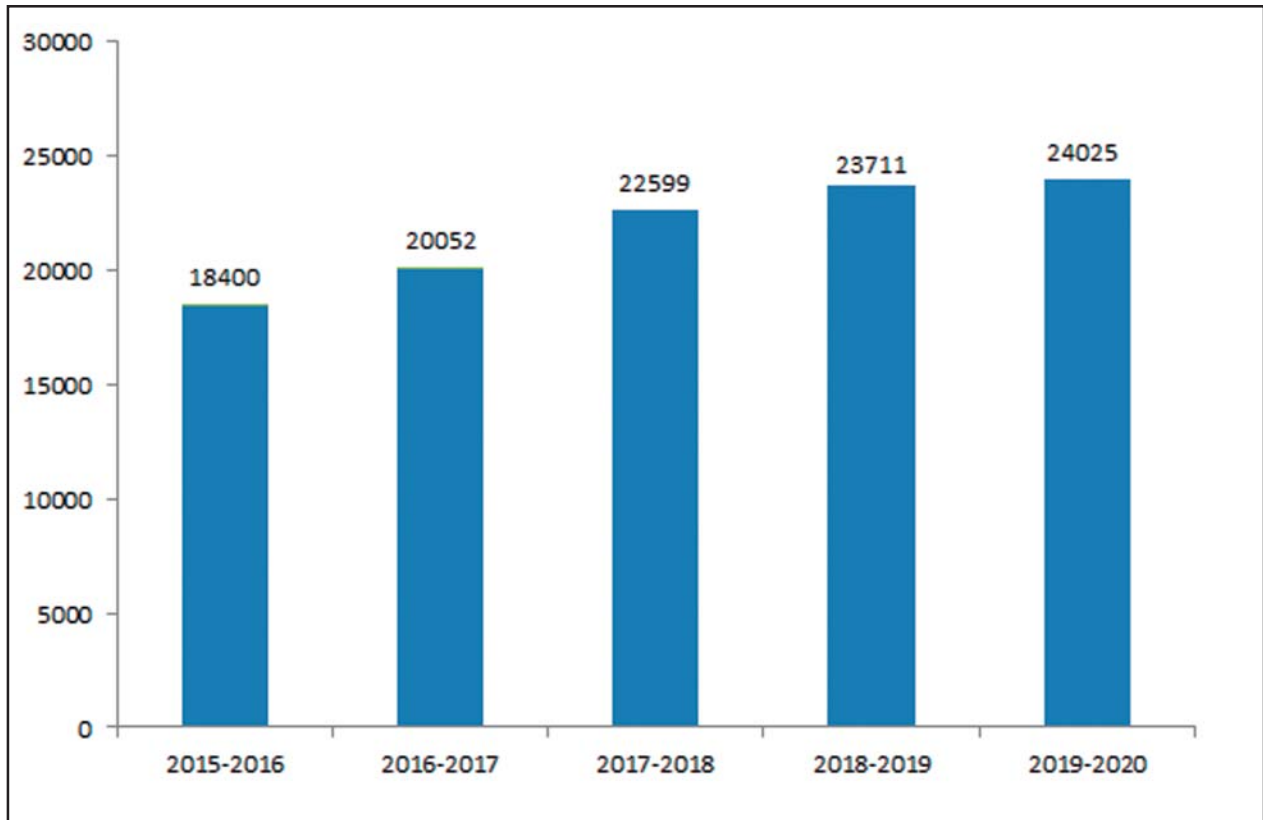
Total New OPD Attendance during the year

Sl.No.	Month	Male	Female	Total
01	April 19	398	670	1068
02	May 19	440	631	1077
03	June 19	320	522	842
04	July 19	427	805	1232
05	August 19	318	530	848
06	September 19	383	688	1071
07	October 19	389	576	965
08	November 19	340	603	943
09	December 19	309	563	872
10	January 20	449	622	1071
11	February 20	431	663	1094
12	March 20	253	385	638
	Total	4457	7264	11721

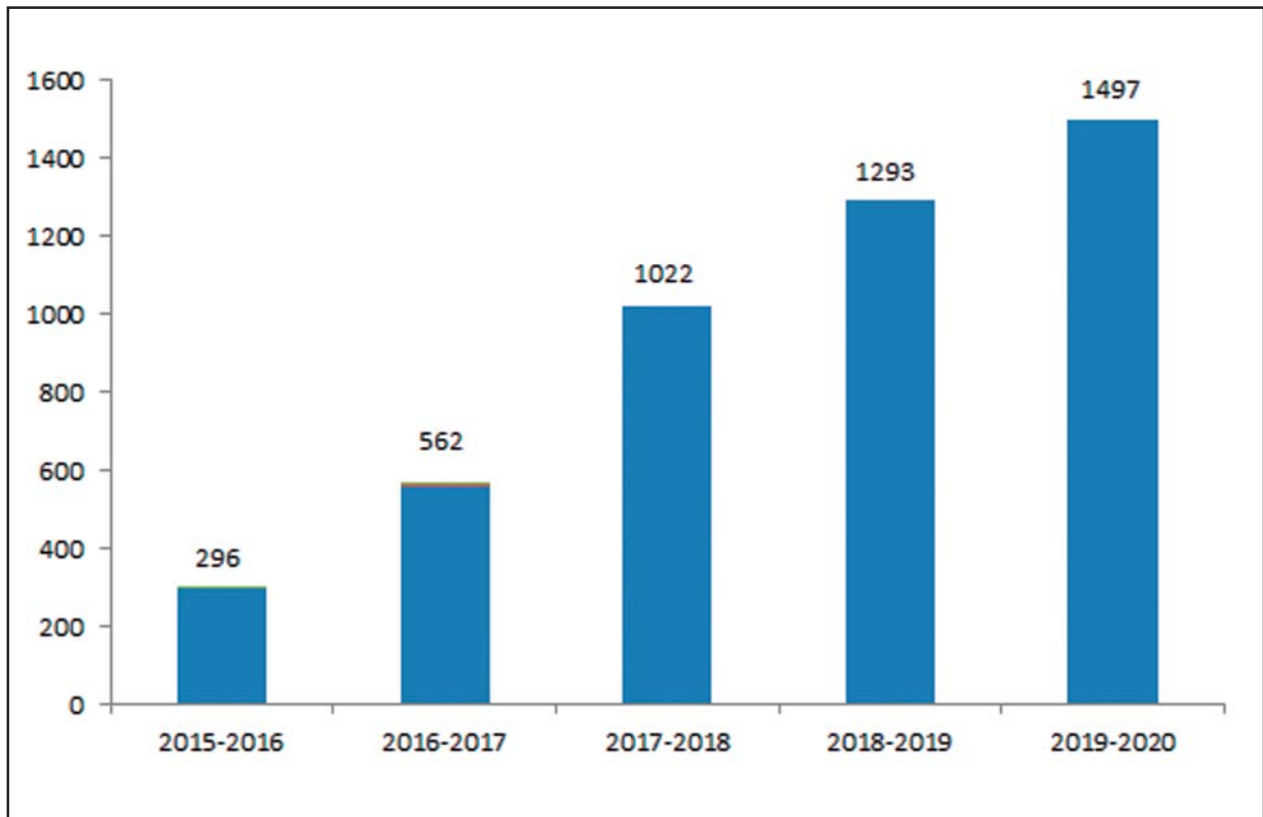
Last 5 years of OPD attendance in the clinical section at NDTB Centre

S.No.	Year	OPD Attendance			Special OPD (COAD)	X-ray
		New OPD	Re-visits	Total		
01	2015-16	9828	8572	18400	296	1565
02	2016-17	10157	9895	20052	562	1561
03	2017-18	11535	11064	22599	1022	2505
04	2018-19	11827	11884	23711	1293	1914
05	2019-20	11721	12304	24025	1497	2028

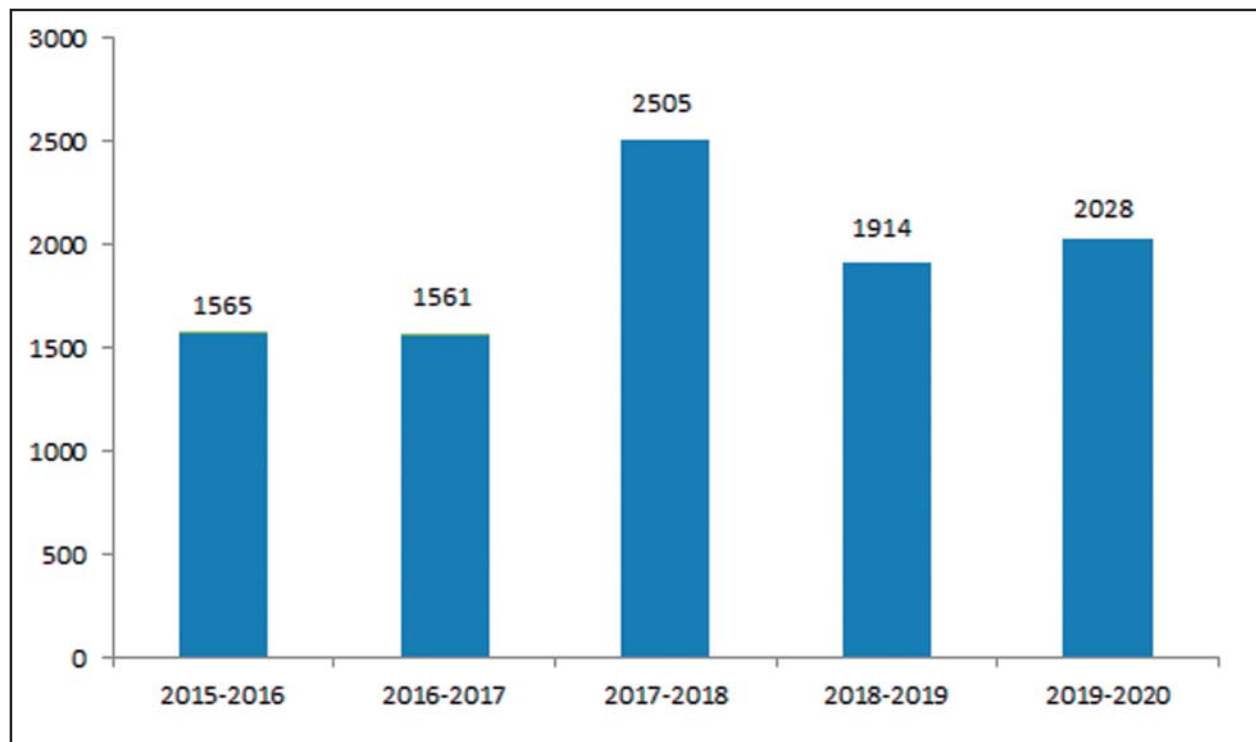
OPD ATTENDANCE



COAD CLINIC ATTENDANCE



RADIOLOGICAL EXAMINATION



Month-wise distribution of radiological examination done during 2019-20

S.No.	Month	X-Rays OPD	X-Rays under ACF activity	Total X-rays done
1.	April 19	139	12	151
2.	May 19	162	-	162
3.	June 19	120	-	120
4.	July 19	159	48	207
5.	August 19	147	-	147
6.	September 19	171	-	171
7.	October 19	154	24	178
8.	November 19	173	-	173
9.	December 19	117	-	117
10.	January 20	179	74	253
11.	February 20	197	31	228
12.	March 20	121	-	121
	Total	1839	189	2028

EPIDEMIOLOGICAL SECTION

Epidemiology Section of New Delhi Tuberculosis Centre is involved in various activities. Some of the key activities being undertaken are as follows:

1. Screening of staff from various organizations, like National Zoological Park, hotels, British high commission and other embassies
2. Involvement in various projects
3. Managing TB Supervisor course
4. Monitoring and supervision of various chest clinics of Delhi
5. Round the year involvement in internal evaluations and report compilation
6. Round the year training of various health personnel which include ground level staff, nursing students as well as medical officers / private practitioners

ECHO CLINIC



Virtual training session on ECHO Platform from STDC Hub

First Wednesday of every month ECHO Clinic is held from STDC hub. This clinic is specifically for para medical staff working under NTEP in Delhi state. Topics relevant to them are discussed in these sessions. Firstly, one of the paramedics presents a brief case summary of an interesting case, followed by didactics by faculty member of NDTB Centre on a related topic. This is followed up by discussion on the case and resolving queries of para medics.

If there is any new addition and policy of diagnosis and management of TB cases under control programme, sensitization sessions are taken on ECHO platform for DTOs, MOs and paramedical staff. Even programme review meetings are often held on the platform which not only saves POL but also spares valuable time of DTOs for field work.

Monitoring of research projects, ACF activities is also done on this platform.

S.No.	Date of ECHO CLINIC	Topic	Participants
1	01.05.2019	Review of Nikshay entries	DTOs, MOs, Supervisors and DEOs
2	03.07.2019	New module on treatment supporter payment	DTOs, MOs, Supervisors and DEOs
3	05.07.2019	Status of entries in NIKSHAY AUSHADI PORTAL	DTOs, MOs, Supervisors and DEOs
4	19.07.2019	Resolving component mapping issues in PFMS	DTOs, MOs, Supervisors and DEOs
5	31.07.2019	Revised formats of PMDT quarterly reports	DTOs, MOs, Supervisors and DEOs
6	04.12.2019	Revised formats for PIP	DTOs, MOs, Supervisors and DEOs
7	03.03.2020	Issues for implementation of Kanamycin/Amikacin in shorter MDR regimen	DTOs, MOs and Supervisors

PUBLIC HEALTH SECTION

Public Health Section works with the aim to improve health of public having personnel like public health nurse, medical social worker and multipurpose health worker to accomplish the said goals. They are involved in planning of various intensified programmes on TB with specific objective to improve public health through various community based programmes. The programmes are as follows:

Health talk

Different tools are used to create awareness amongst masses; one of them is health talk. Health talk is about talking to individual on different issues, focussing on certain points to make them aware that how important it is for an individual to maintain good health. Keeping this thought in mind, health talk on TB on regular basis is delivered in the OPD hall. The patients are made aware about basic information on TB by using flip charts, which they can see and read.

TB awareness

Round the year health talks are given to vulnerable groups as well as general population with the help of Nukkad natak/dramatics, lectures, flipcharts, painting competitions etc.

TB Supervisors Course

The TB Supervisor Course was started in July 2013. This is a 3 months training course being managed by the Public Health Section. The students are given practical and theoretical training which included field visits as well as demonstrations. Broadly the focus is on following topics:

- o Tuberculosis
- o NTEP
- o Modules used in NTEP
- o Roles of TBHV's
- o General aspects of healthcare

During the training they are posted in various departments of NDTB like Mantoux room, laboratory, DOTS centre OPD etc. They are also trained to give health talks to build their overall confidence to face the public. Other activities include counselling of patients filling treatment cards etc. At the end of the training they have to appear for final examination and only those who clear examination successfully are awarded the certificate. The course is accredited by NTEP. During the year 2019-2020, 4 Batches with a total of 57 students from different states completed the course.

Mantoux test

Mantoux test is done at NDTB centre. Apart from being referred from the chest clinic of NDTB Centre, the patients are also referred from various government hospitals as well as by private practitioners for Mantoux screening.

During the period from April 2019 to March 2020, 10354 Mantoux tests were done at the NDTB Centre. Out of these results of 9259 patients were available. Month wise Mantoux screening undertaken is as follows:

Month	Total test	Test read	Reactors >10mm	Reactors <10mm
April	999	917	438	479
May	857	748	361	387
June	812	718	297	421
July	1014	916	419	497
August	700	634	289	345
September	1077	977	474	503
October	846	748	360	388
November	830	742	268	474
December	811	720	295	425
January	813	744	306	438
February	982	867	415	452
March	613	528	268	260
Total	10354	9259	4190	5069

Anti TB Week Celebration

The theme of World TB day was “Its time to End TB” considering the MDG’s (Millennium development goals) / SDG’s (sustainable development goals). All are rigorously working together to end TB using various methods to involve themselves in this mission and work to eliminate TB.

Every year in the month of March, NDTB Centre celebrates World TB Week whereby various activities are held. This year the TB week was organised between 16.03.2020 to 25.03.2020. Due to Covid-19 pandemic some activities were affected. Painting and slogan completion was organised and flash mob was done in main OPD hall for the audience by our TB supervisor students. A separate table is mentioned here to give the insight of the programme.

Painting Competition

Painting competition was held by children of SPYM, whereby various aspects like diagnosis / treatment were covered.

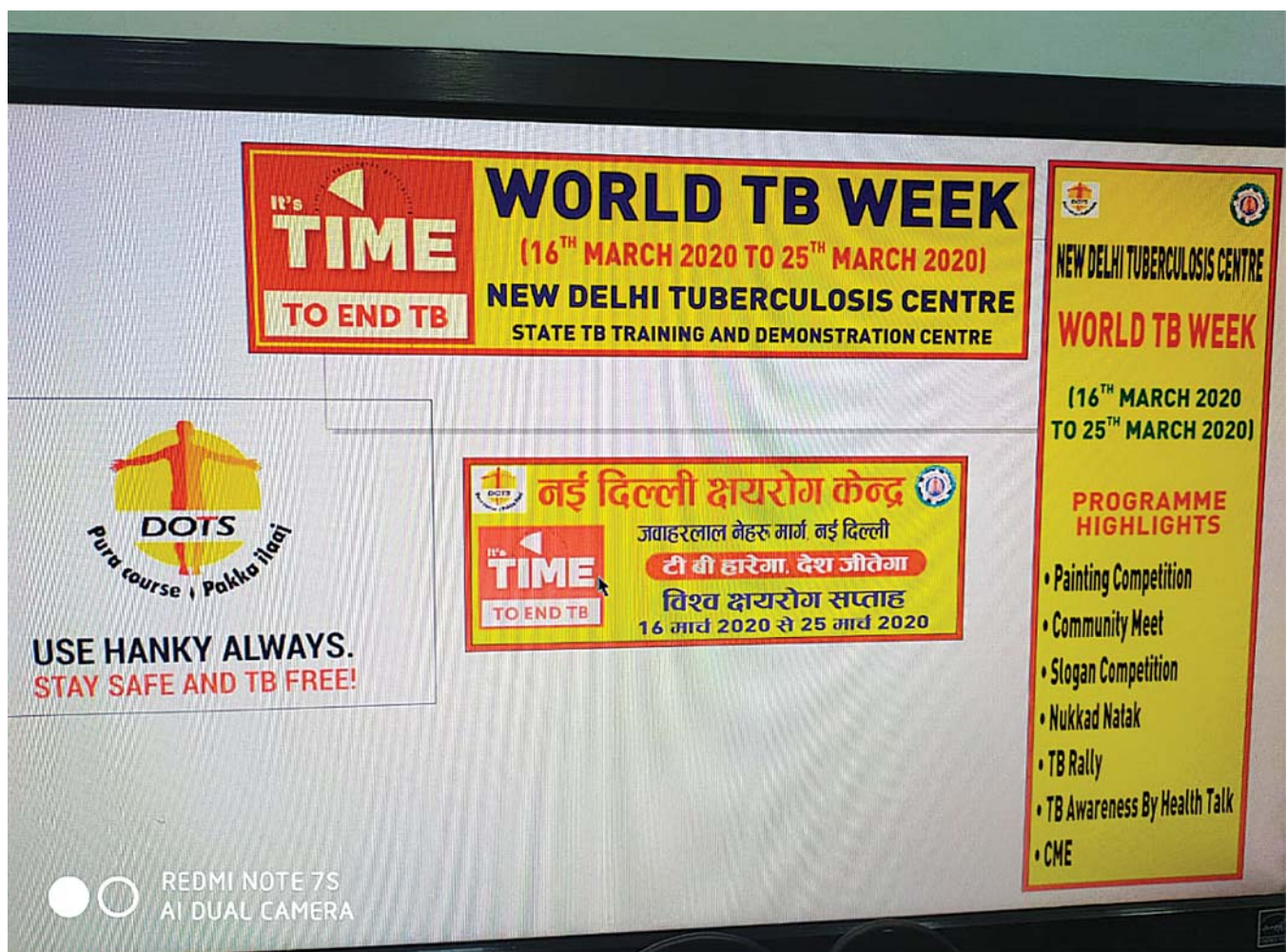
Slogan competition

On 19.03.2020 a slogan completion was held with SPYM students. Total 25 students participated in the competition.

Community meet

Community meet is an effective tool to share information. IEC material, play cards and flash mob activity was used to convey TB messages. The event was a great success.

On 16.03.2020, a community meet was held with patients and their families. TB information covering various aspects of treatments was shared using play cards. This was followed by flash mob by our TB supervisor students.



World TB Day Celebration



World TB Day Celebration



Painting competition on occasion of World TB Day



Role play on occasion of World TB Day

Activities carried out by New Delhi TB Centre on occasion of World TB Day celebration 2020

S.No.	Date	Place	Activities planned/ Name of the Activity	Description/ Brief
1.	16.03.2020 8.45 a.m.	OPD Hall	Inauguration of World TB Day Celebration	Awareness with play card
2	17.3.2020 9.30 a.m. onwards	In Lawns	Painting competition	Students of SPYM and Bachho ka ghar
3	18.3.2020 11.00 a.m. 2.30 p.m.	Sui Walan Hauz Qazi	Community meet	By TB Supervisor students. Community meet will be organized at Sui Walan and Hauz Qazi.
4	19.3.2020 10.00 a.m.	SPYM at night shelter, Darya Ganj.	Slogan competition	Visit to be made to SPYM for conducting slogan competition by TBHV student and staff

	12.00 noon	OPD Hall	Nukad Natak	Group of community volunteers by Delhi TB Association will perform nukkad natak on TB
5	20.3.2020 11.00 a.m.	Bachoka Ghar	TB awareness talk by using play card.	Awareness talk will be given to Bachon ka Ghar inmates by using play cards.
	12.00 noon	NDTBC	Nukkad Natak	Nukkad natak by TB Supervisor students.
6	24.3.2020 10.00 a.m.	Main OPD Hall	NukkadNatak	Nukkad natak by TB Supervisor Students.

Community meeting and health talk

Date	Event	Participants
31.5.2019	World Tobacco Day was celebrated by organising Nukkar Natak by TB Supervisor students on harmful effects of TB in main OPD Hall	TB Supervisor Students
5.6.2019	All the students were asked to plant a tree at their residence on World environment day and submit a picture in the office.	TB supervisor students
1.7.2019	On World Doctors Day, Director NDTBC addresses the gathering and cleared TB related doubts.	Director, TB Supervisor Students
13.8.2019	A small rally was organised on World Youth day by our students to create awareness about TB.	TB supervisor students
20.11.2019	Annual Day Celebration was held at NDTB Centre and a health talk was organised on HIV and AIDS by ART Centre IRVIN .	Staff and students
24.3.2020	Anti TB week was celebrated from 16.03.2020 to 25.03.2020	Staff and students

MYCOBACTERIAL LABORATORY

The laboratory of New Delhi Tuberculosis Centre accredited by National Accreditation Board for Testing and Calibration Laboratories (NABL) is a designated Intermediate Reference laboratory for tuberculosis. The Laboratory is providing diagnostic and treatment follow-up services to 17 of the 25 Revised National Tuberculosis Elimination Program-designated TB districts (also called as chest clinics) in Delhi. The Laboratory is also responsible for the overall supervision of the external quality assurance activities of the entire state and is going through regular rounds of proficiency testing for smear microscopy as well as culture and DST by the National Reference Laboratory, National Institute of Tuberculosis and Respiratory Diseases, New Delhi, India.

The laboratory is performing latest Molecular diagnostic assays such as the Cartridge based nucleic acid Amplification test (CBNAAT) and Line Probe Assay (LPA) for diagnosis of drug resistant tuberculosis. In addition the laboratory also has automated liquid culture system-MGIT 960 to perform Culture and phenotypic Drug Susceptibility testing against 1st and 2nd line Anti-tuberculosis drugs.

The laboratory is actively participating in many projects and studies. The most recent ones include the STREAM-2 and BEAT studies.

Table : Microscopic activities under NTEP (2019-2020) of Delhi state

District	No. of Adult OPD	No. of Presumptive TB examined for diagnosis	No. of Presumptive TB found positive	No. of Presumptive TB under-going repeat	No. of TB Presumptive TB found positive on repeat	Nos.of follow-up patients examined	Nos. of Follow-up patients found to be positive	Total No. of Positive and negative slides examined
BJRM	233318	5111	496	14	2	2263	35	12509
GTBH	555686	8485	929	2	0	2151	95	19125
HEDGEWAR	389880	3944	482	0	0	919	32	9191
KCC	212233	5760	489	11	0	2272	37	13793
LNH	386178	8403	587	0	0	743	22	16836
JHANDEWALAN	82702	2199	297	0	0	1369	100	6671
S.P.M.MARG, PILI KOTHI	139274	3301	349	2	43	1015	61	8313
R.K. MISSION	48165	2393	323	0	0	925	50	5710
NEHRU NAGAR	528174	14506	1701	0	0	5932	287	34296
MOTI NAGAR	411866	9024	1229	5	4	4020	177	22095
R.T.R.M HOSPITAL	175678	7666	740	0	0	1914	143	16946
NARELA CHEST CLINIC	139236	7414	960	0	0	2881	124	18797
KARAWAL NAGAR	102440	6189	936	7	1	3542	135	15935
NDMC CHEST CLINIC	392884	14562	1487	11	3	2864	113	33017
BSA	223448	6474	805	25	1	2759	175	16304
DDUH	256500	10543	1202	2	0	3562	182	24850

GULABI BAGH	155076	2627	271	0	0	870	37	5422
SANJAY GANDHI	121441	4989	608	0	0	2467	50	12683
C.C.J.P.C Hospital Shastri Park	268630	4412	774	2	1	3180	148	10766
CH.DESRAJ	348043	5336	655	0	0	1836	96	12476
MALVIYA NAGAR	280479	6967	724	0	165	2861	361	17411
NITRD	364629	12669	1253	3	0	2644	166	28032
SHAHDARA	265558	4921	544	263	10	1924	66	12070
BIJWASAN	158171	4744	477	0	0	2147	221	11994
PATPARGANJ (TU1)	553376	12632	1600	27	1	4504	223	30653
	6793065	175271	19918	374	231	61564	3136	415895

67

During the year, a total of 1,75,271 presumptive TB were examined for diagnosis in all 25 chest clinics of Delhi state out of which 19,918 were found positive. As per data received from TB laboratory abstract, 4,15,895 slides were examined.

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.

List of DTCs visited by IRL Team for OSE

Sr.No.	Chest Clinic	Visit Date
1	GTB Chest Clinic	5/4/2019
2	R K Mission Chest Clinic	12/4/2019
3	BJRM Chest Clinic	15/5/2019
4	Shastri Park Chest Clinic	17/5/2019
5	LokNayak Chest Clinic	23/5/2019
6	Karawal Nagar Chest Clinic	28/5/2019
7	Narela Chest Clinic	30/5/2019
8	Hedgewar Chest Clinic	07/6/2019
9	SPM Chest Clinic	10/6/2019
10	Karawalnagar Chest Clinic	14/6/2019
11	Ch. Deshraj Chest Clinic	16/9/2019
12	BSA Chest Clinic	1/10/2019
13	Malviya Nagar Chest Clinic	11/10/2019
14	GulabiBagh Chest Clinic	22/10/2019
15	Kingsway Camp Chest Clinic	23/10/2019
16	Patparganj Chest Clinic	24/10/2019
17	Shahadra Chest Clinic	13/11/2019
18	Sanjay Gandhi Chest Clinic	19/11/2019
19	RTRM Chest Clinic	6/12/2019
20	NITRD	16/12/2019
21	Bijwasan chest clinic	17/12/2019

Programmatic Management of Drug Resistant Tuberculosis (PMDT) Activities

The laboratory got certification by Central TB Division 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 2019– March 2020

(Specimens processed on culture or DST)

Q.2 2019 to Q 1 2020	FL-LPA performed						SL-LPA performed				
	Specimen inoculated for culture	FL-LPA DST done	H+R resistance not detected	H+R Resistance detected	H only Resistance detected	R only Resistance detected	SL-LPA DST done	FLQ + SLI resistance not detected	FLQ+SLI resistance detected	FLQ only Res Detected	SLI only Resistance detected
Q 2	2869	1838	1571	66	153	18	566	378	16	164	6
Q 3	3143	1942	1632	116	138	11	443	292	11	107	2
Q 4	3330	2290	1902	167	168	11	413	273	14	107	3
Q 1	2989	2668	2311	149	196	12	395	270	18	98	3
Total	12331	8738	7416	498	655	52	1817	1213	59	476	14

The table provides details of laboratory tests done under PMDT activities during the year 2019-20. A total of 12,331 sputum specimens were processed, out of which 498 cases turned out to be MDR-TB and 52 cases were Rifampicin mono resistant.

New additions:

WGS-based approaches have been proposed for surveillance of bacterial pathogens included in the “priority list” by the World Health Organization (WHO). In View of this, Central TB division decided to setup five sequencing sites across the country. With New Delhi Tuberculosis Centre being one of the five sites, the laboratory recently got equipped with Illumina MiSeq bench top sequencer. *M. tuberculosis* whole genome sequencing (WGS) has the potential to be a one-stop method for both comprehensive DST and epidemiological investigations. The data generated from WGS allows for unparalleled ability to detect genetic variation in *M. tuberculosis*. Analysis of WGS data will lead to the reconstruction of *M. tuberculosis* phylogeny and this will improve our understanding of the national distribution of *M. tuberculosis* and help in the detection of hotspots for drug resistance.

A Laboratory Information Management System (LIMS) specific to the laboratory needs was installed in the laboratory earlier this year. This system will aid in managing samples, test results and associated data to improve lab productivity. The system also been integrated with the national reporting portal-Nikshay. This will ensure timely dispatch of the reports and help in maintaining the turn-around-time (TAT).

SUPERVISORY ACTIVITIES

Monitoring and evaluation is an important tool for NTEP. 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 NTEP 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 2019-20, faculty from NDTB Centre participated in evaluation of chest clinic as per the following schedule:

Date of Visits	Chest Clinic
295/2019 to 31/5/2019	Jhandewalan Chest Clinic
17/6/2019 to 19/6/2019	R.K.Mission Chest Clinic
24/7/2019 to 26/7/2019	NITRD Chest Clinic
18/9/2019 to 20/9/2019	BJRM Chest Clinic
16/12/2019 TO 18/12/2019	Ch. Desh Raj Chest Clinic
12/2/2020 to 14/2/2020	Narela Chest Clinic
19/2/2020 to 21/2/2020	KCC Chest Clinic

(B) Supervisory Visits to Chest Clinics

During the year 2019-20, the following Supervisory visits were made by the faculty who gave their inputs to the improve programme performance under NTEP:

Date of Visits	Chest Clinic
12/4/2019	R.K. Mission Chest Clinic
15/5/2019	BJRM Chest Clinic
17/5/2019	Shastri Park Chest Clinic
23/5/2019	LokNayak Chest Clinic
30/5/2019	Narela Chest Clinic
07/6/2019	Hedgewar Chest Clinic

10/6/2019	SPM Chest Clinic
14/6/2019	Karawalnagar Chest Clinic
1/10/2019	BSA Chest Clinic
11/10/2019	Malviya Nagar Chest Clinic
22/10/2019	GulabiBagh Chest Clinic
23/10/2019	Kingsway Camp Chest Clinic
24/10/2019	Patparganj Chest Clinic
13/11/2019	Shahadra Chest Clinic
19/11/2019	Sanjay Gandhi Chest Clinic
6/12/2019	RTRM Chest Clinic
16/12/2019	NITRD
17/12/2019	Bijwasan chest clinic

MOBILE VAN

Since 12th June, 2018, the mobile van which has been received from Delhi State with CBNAAT facility is placed in different chest clinics on rotation basis and is being used by DTOs for community awareness and TB screening. During the year 2019-20, the rotation wise mobile van was sent to following chest clinics :

S.No.	Date of Visits	Chest Clinic
1	15/5/2019	BJRM Chest Clinic
2	16/5/2019	BJRM Chest Clinic
3	20/5/2019	Gulabi Bagh Chest Clinic
4	22/5/2019	Gulabi Bagh Chest Clinic
5	3/6/2019	Patpar ganj Chest Clinic
6	6/6/2019	Patpar ganj Chest Clinic
7	10/6/2019	KCC Chest Clinic
8	11/6/2019	KCC Chest Clinic
9	17/6/2019	Patpar ganj Chest Clinic
10	24/6/2019	Patpar ganj Chest Clinic
11	26/6/2019	Karawal Nagar Chest Clinic
12	1/7/2019	Patparganj Chest Clinic
13	2/7/2019	Nehru Nagar Chest Clinic
14	3/7/2019	Nehru Nagar Chest Clinic
15	4/7/2019	Patparganj Chest Clinic
16	8/7/2019	Patparganj Chest Clinic
17	15/7/2019	Patparganj Chest Clinic
18	22/7/2019	Patparganj Chest Clinic
19	23/7/2019	Shastri Park Chest Clinic
20	24/7/2019	Shastri Park Chest Clinic
21	25/7/2019	Patparganj Chest Clinic
22	5/8/2019	Patparganj Chest Clinic
23	7/8/2019	Malviya Nagar Chest Clinic
24	13/8/2019	Moti Nagar Chest Clinic
25	14/8/2019	Moti Nagar Chest Clinic

26	19/8/2019	Patparganj Chest Clinic
27	20/8/2019	GTB Hospital
28	22/8/2019	Patparganj Chest Clinic
29	3/9/2019	Ch. Des Raj Chest Clinic
30	4/9/2019	Ch. Des Raj Chest Clinic
31	11/9/2019	GulabiBagh Chest Clinic
32	4/10/2019	BJRM Chest Clinic
33	14/10/2019	BSA Hospital
34	22/10/2019	Hedgewar Chest Clinic
35	23/10/2019	Hedgewar Chest Clinic
36	24/10/2019	KCC Chest Clinic
37	13/11/2019	BJRM Chest Clinic
38	14/11/2019	BJRM Chest Clinic
39	15/11/2019	Hedgewar Chest Clinic
40	3/12/2019	Moti Nagar Chest Clinic
41	4/12/2019	Moti Nagar Chest Clinic
42	27/2/2020	Ch. Des Raj Chest Clinic
43	28/2/2020	Ch. Des Raj Chest Clinic
44	5/3/2020	BJRM Chest Clinic
45	6/3/2020	BJRM Chest Clinic

The van was utilised by respective chest clinics for creating awareness in the community as well as for Active Case Finding Activities.

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 alongwith list of publications from the institute. The Centre maintains a library which has 668 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 2019-20, the Annual day of NDTB Centre was celebrated on 20th November, 2019. Several sports and culture activities was conducted by staff and students of Centre to commemorate the day.
- (B) **VISITORS TO NDTB CENTRE**
1. A team from Clinton Health Initiative made a visit to NDTB Centre on 3rd April, 2019 to observe activities of STDC and IRL. The team also had discussion with Director STDC and STO Delhi.
 2. Two Public Health programme Officers; Ms.Hawwa Guraisha and Ms. Fathaath Hassan of NTP Maldives visited NDTB Centre for getting orientation of NTEP activities in India. Dr. K.K. Chopra, Director, Dr. M. Hanif, Bacteriologist and Dr.Shanker Matta, Epidemiologist briefed them about NTEP.
 3. An international team (part of Joint Monitoring Mission) visited NDTB Centre on 7th November, 2019. The team visited to assess epidemiological situation of TB in India. Dr. K.K. Chopra, Director presented five year trend of TB notification, treatment outcome and DBT to patients of Delhi state NTEP.



Discussion during visit of Global Fund International delegation on NTEP in Delhi state



Annual Day Celebration of NDTB Centre



Annual Day Celebration of NDTB Centre



Independence Day Celebration at NDTB Centre

(C) GRANTS

- i. During the year 2019-20, the Government of India, Ministry of Health & Family Welfare released the annual recurring Grant-in-aid (Salaries) of Rs. 475 Lacs and grant-in-aid (General) of Rs. 70 Lacs.
- ii. Rs.10000/- was provided by Tuberculosis Association of India as annual grant.
- iii Interest on FDR and saving Bank Account Rs. 38585/-

(D) RIGHT TO INFORMATION ACT 2005

During 2019-20, 17 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 2019-2020

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-19	1	1	-	-	-	-	-
2	May-19	1	1	-	-	-	-	-
3	June-19	2	2	-	-	-	-	-
4	July-19	2	2	-	-	-	-	-
5	August-19	3	3	-	-	-	-	-
6	Sept-19	4	4	-	-	-	-	-
7	Oct-19	2	2	-	-	-	-	-
8	Nov-19	2	2	-	-	-	-	-
9	Dec-19	-	-	-	-	-	-	-
10.	Jan-20	-	-	-	-	-	-	-
11.	Feb-20	-	-	-	-	-	-	-
12.	March-20	-	-	-	-	-	-	-
Total	2019-2020	17	17	-	-	-	-	-

SUMMARY OF ACTIVITIES OF NEW DELHI TB CENTRE

An insight statistics of annual activities of the Centre during 2019-2020 are as follows:

Outpatient Attendance

New outpatients attendance	11721
Revisits	12304
Total outpatients attendance	24025

DOT Centre Attendance

New Patients put on DOTS at NDTB DOT Centre	46
Total Patients (2018-19) put on DOTS at NDTB DOT Centre	153

Special Clinics Attendance

Special clinics (TB and Diabetes, HIV and TB, COAD and Tobacco Cessation Clinic – Total New + old cases)	1494
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Laboratory Examinations

1	Total laboratory examinations	61394
2	Smear examinations	25977
3	Culture examinations	20538
4	Drug susceptibility test	
	a. By liquid culture method	1133
	b. By LPA	12434
5	CBNAAT	1312

Tuberculin skin tests

Total Tuberculin skin tests done	10354
Tests read	9259
Reactors (>10mm)	4190
Non-reactors (<10mm)	5069

Radiological Examinations

Radiological Examinations	2028
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Trainings/IRL Visits/Publications

Personnel trained	2673
Supervision and Monitoring /Internal Evaluation of Chest Clinics	25
IRL Visits to chest clinics for EQA	21
Research and Publications	15

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

221-223, Deen Dayal Marg, New Delhi-02
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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, 2020, 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. 19) 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, 2020 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 : 13.11.2020

**NEW DELHI TUBERCULOSIS CENTRE
BALANCE SHEET AS AT 31ST MARCH, 2020**

	Schedule	As at 31.03.2020 (Rs.)	As at 31.03.2019 (Rs.)
<u>SOURCES OF FUNDS:</u>			
Assets Fund	1	2,844,285	2,977,034
Earmarked Funds	2	1,161,224	1,177,632
Unspend Project Fund	3	1,269,663	792,228
Current Liabilities and Provisions	4	10,549,700	9,837,677
Accumulated Deficit / Surplus		1,279,882	(254,135)
Total		17,104,754	14,530,436
<u>APPLICATION OF FUNDS:</u>			
Fixed Assets	5	2,844,285	2,977,034
Investment	6	4,250,000	-
Current Assets, Loans & Advances:	7		
- Stock and Stores and receivables		270,377	157,335
- Cash and Bank balances		9,494,348	11,200,500
TDS recoverable		245,744	195,567
Total		17,104,754	14,530,436
Accounting Policies and Notes to the accounts	18		

Schedule Nos.1 to 18 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 : 13.11.2020

NEW DELHI TUBERCULOSIS CENTRE
STATEMENT OF INCOME AND EXPENDITURE FOR THE YEAR ENDED 31ST MARCH 2020

	Schedule	For the year 2019-20	For the year 2018-19
		(Rs.)	(Rs.)
INCOME			
Recurring Grant from Govt.of India :			
Grant-in-aid Salaries		47,500,000	47,200,000
Grant-in-aid General		7,000,000	4,600,000
Maintenance Grants from TAI		10,000	10,000
Fees from Patients	8	156,860	157,500
Misc. Receipts:			
- Interest income		424,852	199,499
- Other receipts		7,824	70,000
Total		55,099,536	52,236,999
EXPENDITURE			
Salary & Other Staff expenditure	9	47,155,910	47,377,522
Administrative Expenses	10	5,921,970	4,399,360
Expenses on X-Ray Films, Drugs & Medicines and Lab. Consumable	11	487,639	369,477
Total		53,565,519	52,146,359
(Deficit)/Surplus for the year		1,534,017	90,640
Less / (Add) : Balance as per last account		(254,135)	(344,775)
		1,279,882	(254,135)

Accounting Policies and Notes to the Accounts **19**

Schedule Nos.1 to 18 form an integral part of the Accounts

As per our report of even date attached

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

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Chairman
(Dr. L.S. Chauhan)

Place : New Delhi

Date : 13.11.2020

NEW DELHI TUBERCULOSIS CENTRE
RECEIPTS & PAYMENTS ACCOUNT FOR THE YEAR ENDED MARCH 31, 2020

	Schedule	For the year 2019-20	For the year 2018-19
		(Rs.)	(Rs.)
RECEIPTS			
Opening Cash & Bank Balances	6	11,200,500	7,376,000
Grants :			
Recurring Grant-in Aid from Govt. of India			
- Grant-in-aid Salaries		47,500,000	47,200,000
- Grant-in-aid General		7,000,000	4,600,000
Maintenance Grants from TAI		-	10,000
Fee from Patients	8	153,700	157,500
Receipts from TAI	12	4,341,500	11,100,694
Other Receipts	13	2,004,364	1,483,945
Total		72,200,064	71,928,139
PAYMENTS			
Staff Expenditure	14	45,311,088	42,961,343
Administrative expenses	15	5,513,955	4,397,807
X-Ray films, Drugs and Med. & Lab. Consumables	16	513,076	395,023
Payments from TAI Fund	17	4,341,500	11,100,694
Other Payments	18	2,776,097	1,872,772
Investment purchased	6	4,250,000	-
Closing Cash & Bank Balances	7	9,494,348	11,200,500
Total		72,200,064	71,928,139

Policies and Notes to the Accounts **18**
Schedule Nos.1 to 18 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)

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(Dr. L.S. Chauhan)

Place : New Delhi
Date : 13.11.2020

NEW DELHI TUBERCULOSIS CENTRE

Schedule- 1

ASSETS FUND

	As at 31.03.20	As at 31.03.19
	<u>(Rs.)</u>	<u>(Rs.)</u>
Balance as Per last A/c	2,977,034	2,998,654
Add : Additions during the year for Cost of Assets Acquired (refer Schedule - 5)	<u>219,772</u>	<u>999,639</u>
	3,196,806	3,998,293
Less:		
Disposals during the year	-	659,855
Depreciation for the year (refer Schedule - 5)	<u>352,521</u>	<u>361,404</u>
Total	<u>2,844,285</u>	<u>2,977,034</u>

	Unutilised Balance as on 01.04.19	Received / Transferred during the year	Interest	Total	Utilised during the year	Unutilised Balance as on 31.03.20
	<u>(Rs.)</u>	<u>(Rs.)</u>	<u>(Rs.)</u>	<u>(Rs.)</u>	<u>(Rs.)</u>	<u>(Rs.)</u>

Schedule - 2

EARMARKED FUND

General Donations	358,420	-	38,585	397,005	-	397,005
Auditorium fund	1,008	-	-	1,008	-	1,008
For Medicines	236,411	-	-	236,411	44,789	191,622
Staff Welfare Fund	83,193	-	2,706	85,899	2,000	83,899
Research Fund	498,600	-	-	498,600	10,910	487,690
Total	<u>1,177,632</u>	<u>-</u>	<u>41,291</u>	<u>1,218,923</u>	<u>57,699</u>	<u>1,161,224</u>

NEW DELHI TUBERCULOSIS CENTRE

	As at 31.03.20	As at 31.03.19
	(Rs.)	(Rs.)
<u>Schedule- 3</u>		
<u>Unspent Project Fund:</u>		
Project Fund -Framework of TB care in prison	119,064	107,748
Project Fund-Active Case Finding Campaign	94416	249480
Project Fund-Mapping of anti Mycobacterial drugs	225000	225000
Project Fund- Effect of Counselling	69383	210000
Project NTM Diseases	761800	0
	1,269,663	792,228
<u>Schedule- 4</u>		
<u>Current Liabilities & Provisions</u>		
Advance Fee & Lab Charges	0	3,160
Salary & Allowances	3,583,449	3,620,799
Other Payable	38,638	34,029
Sundry Creditors	467,619	8,094
Provision for Contribution to Gratuity Fund	1,831,000	5,991,000
Security Deposit	157,693	72,110
Training under RNTCP	98574	108485
Gratuity fund	4,349,127	0
NABL surveillance fees	23600	0
Total	10,549,700	9,837,677

NEW DELHI TUBERCULOSIS CENTRE

Schedule - 5

Fixed Assets

	WDV as on 01.04.19	Additions during the year	Disposals	Balance as on 31.03.20	Depreciation for the year	Net balance on 31.03.20
	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)
Building	179,309			179,309	17,931	161,378
Electrical Installations	580,329			580,329	58,033	522,296
Furniture & Fittings	1,219,814	208,862		1,428,676	123,261	1,305,415
Lab. Equipments	173,672			173,672	26,051	147,621
X-ray Equipments	156,782			156,782	23,517	133,265
Other Equipments	12,191			12,191	1,829	10,362
Computer	5,893			5,893	2,357	3,536
Books	12	10,910		10,922	2,187	8,735
Vehicle	649,032			649,032	97,355	551,677
Total	2,977,034	219,772	-	3,196,806	352,521	2,844,285

**As at
31.03.20**

(Rs.)

**As at
31.03.19**

(Rs.)

Schedule- 6

INVESTMENT

Fixed Deposit (Gratuity)

4,250,000

-

Total

4,250,000

-

NEW DELHI TUBERCULOSIS CENTRE

	As at 31.03.20	As at 31.03.19
	(Rs.)	(Rs.)
<u>Schedule- 7</u>		
<u>CURRENT ASSETS</u>		
<u>(A) Current Assets & Loans and Advances</u>		
Grant Receivable from TAI.	10,000	-
Interest accrued on FDR(gratuity fund)	69,224	
Stocks and Stores at cost :		
(as valued and certified by the Management)		
-X-Ray films and chemicals	31,257	20,863
-Laboratory stains, chemicals glassware	159,896	136,472
	Sub Total - A	157,335
	270,377	157,335
<u>(B) Cash and Bank Balances:</u>		
Cash in hand	-	3,812
(as certified by the Management)		
In Current A/c with BOI	7,571,011	10,040,955
Bank of India (Gratuity Fund A/C)	22,212	-
In Saving Bank		
- with BOI (Earmarked donation fund)	1,817,226	1,072,540
- with BOI (Staff Welfare Fund)	83,899	83,193
	Sub Total - B	11,200,500
	9,494,348	11,200,500
	Gross Total - A+B	11,357,835
	9,764,725	11,357,835

Advance Fee as on 01.04.19	Fee Received During the year	Add: Advance fee adjusted During the year	Fee for the year 2019-20	Advance as on 31.03.2020
(Rs.)	(Rs.)	(Rs.)	(Rs.)	(Rs.)

Schedule-8

Advance Fees for patients

Laboratory charges	3,160	153,700	3,160	156,860	-
X-ray charges	-	-	-	-	-
Total	3,160	153,700	3,160	156,860	-

NEW DELHI TUBERCULOSIS CENTRE

	For the year 2019-20	For the year 2018-19
	<u>(Rs.)</u>	<u>(Rs.)</u>
<u>Schedule- 9</u>		
<u>Salary & Other Staff Expenditure :</u>		
Salaries	28,430,830	26,607,881
Dearness Allowance	3,955,703	2,365,295
House Rent Allowance	5,779,640	5,904,204
Transport Allowance	1,920,598	1,871,780
Other Allowances	1,298,958	1,212,645
Children's Education Allowances	418,206	388,333
Contribution to Provident Fund	2,905,537	2,804,791
Contribution to Gratuity Fund	1,831,000	5,991,000
Bonus	159,734	174,745
Travel Concession	455,704	56,848
Total	<u>47,155,910</u>	<u>47,377,522</u>

Schedule- 10

Administrative Expenses :

Housekeeping Charges	1,372,772	1,402,892
Security Charges	1,128,523	1,103,392
Medical Aid to staff	281,880	280,452
Travelling Expenses & Conveyance	195,361	102,769
Repairs to Furniture and equipment	247,283	154,517
Repairs to X-ray equipments	1,400	46,545
Repairs to Laboratory equipment	111,480	138,365
Telephone Expenses	128,221	138,074
Printing & Stationery	142,655	135,813
Postage	7,089	5,905
Laundry Charges	7,975	7,135
Maintenance of car	49,576	35,482
Audit Fee	24,780	24,780
Miscellaneous expenses	172,357	128,653
Building maintenance expenses -civil	1,486,781	322,970
Building maintenance expenses -electrical	214,180	179,665
Annual day expenses	80,806	53,961
Furniture - Major repairs	208,862	137,990
Advertisement	47,964	-
Linen and bedding	12,025	-
Total	<u>5,921,970</u>	<u>4,399,360</u>

NEW DELHI TUBERCULOSIS CENTRE

		For the year 2019-20	For the year 2018-19
		<u>(Rs.)</u>	<u>(Rs.)</u>
<u>Schedule- 11</u>			
<u>X-Ray Films ,Drugs and Medicines & Lab. Consumable</u>			
Drugs and Medicines			
Balance as on 1.4.2019	-		
Add : Purchased during the year	80,580		
	<u> </u>		
	-		
Less : Closing Stock	<u> </u>		
		80,580	64,512
X-Ray Films and Chemicals			
Balance as on 1.4.2019	20,863		
Add : Purchased during the year	96,145		
	<u> </u>		
	117,008		
Less : Closing Stock	<u> </u>		
		85,751	86,198
Lab. Stains, Chemicals & Glassware			
Balance as on 1.4.2019	136,472		
Add : Purchased during the year	344,732		
	<u> </u>		
	481,204		
Less : Closing Stock	<u> </u>	321,308	218,767
Materials Consumed	Total	<u>487,639</u>	<u>369,477</u>

NEW DELHI TUBERCULOSIS CENTRE

	For the year 2019-20	For the year 2018-19
	<u>(Rs.)</u>	<u>(Rs.)</u>
<u>Schedule- 12</u>		
<u>Receipts from TAI</u>		
For PF Advances	2,341,500	5,144,000
For Gratuity Payments	2,000,000	1,810,960
For Provident Fund Payments	-	4,145,734
Total	<u>4,341,500</u>	<u>11,100,694</u>

Schedule - 13

Other Receipts

Donations for Medicines	-	12,240
Staff Welfare Fund	2,706	2,909
Interest on FFD A/c	382,367	179,549
Interest on Saving A/c (Earmarked Fund)	38,585	43,772
Miscellaneous Receipts	4,390	70,000
Earnest money	-	52,000
Security deposit	157,693	72,110
Traininig under RNTCP	488,323	366,885
Project-Active case finding	-	249,480
Project-Mapping of antimycobactrial drugs	-	225,000
Project- Effect of counselling		210,000
Project-Framework of TB care in prison	144,900	-
Project-NTM Diseases	761,800	-
NABL Servillance Fees	23,600	-
Total	<u>2,004,364</u>	<u>1,483,945</u>

NEW DELHI TUBERCULOSIS CENTRE

	For the year 2019-20	For the year 2018-19
	<u>(Rs.)</u>	<u>(Rs.)</u>
<u>Schedule- 14</u>		
<u>Staff Expenditure</u>		
Salaries	28,414,396	26,648,105
Dearness Allowance	3,979,530	2,224,011
House Rent Allowance	5,784,392	5,913,060
Transport Allowance	1,918,816	1,870,096
Other Allowances	1,255,586	1,220,765
Children's Education allowance	418,206	388,333
Contribution to Provident Fund	2,909,713	2,794,747
Contribution to Gratuity Fund	-	1,667,000
Bonus	174,745	178,378
Travel Concession	455,704	56,848
Total	<u>45,311,088</u>	<u>42,961,343</u>

Schedule- 15

Administrative Expenses

Wages to Contractual staff	1,256,922	1,402,892
Security Expenses	1,031,750	1,103,392
Medical Aid to staff	281,880	280,452
Travelling Expenses & Conveyance	195,361	102,769
Repairs to Furniture and equipment	247,283	154,517
Repairs to X- Ray equipment	1,400	46,545
Repairs to Laboratory equipment	111,480	138,365
Telephone Expenses	128,887	128,825
Printing & Stationery	142,655	135,813
Postage	7,089	5,905
Laundry Charges	7,975	7,135
Maintenance of car	49,576	43,178
Audit Fee	24,780	24,780
Miscellaneous expenses	172,357	128,653
Building maintenance -civil	1,486,781	322,970
Building maintenance -Electrical	214,180	179,665
Annual day expenses	80,806	53,961
Advertisement	47,964	-
Furniture	12,804	137,990
Linen and bedding	12,025	-
Total	<u>5,513,955</u>	<u>4,397,807</u>

NEW DELHI TUBERCULOSIS CENTRE

	For the year 2019-20	For the year 2018-19
	<u>(Rs.)</u>	<u>(Rs.)</u>
<u>Schedule- 16</u>		
<u>X-Ray Films ,Drugs and Medicines & Lab. Consumable</u>		
X-Ray Films and Chemicals	96,145	61,152
Drugs and Medicines	83,940	243,960
Laboratory Stains and Chemicals	332,991	89,911
Total	<u>513,076</u>	<u>395,023</u>
<u>Schedule- 17</u>		
<u>Payments from TAI Fund</u>		
PF Advances	2,341,500	5,144,000
Gratuity Payments	2,000,000	1,810,960
Provident Fund Payments	-	4,145,734
Total	<u>4,341,500</u>	<u>11,100,694</u>
<u>Schedule- 18</u>		
<u>Other Payments</u>		
settlement of gratuity a/c	1,718,789	-
Earnest money	-	52,000
Staff Welfare Fund	2,000	2,000
Donation fo medicines	44,789	32,954
General Donations	-	171,572
Research Fund	10,910	-
Ptoject-SMS for sure	-	827,553
Project-Xpert Ultra	-	363,221
Security deposit	72,110	31,320
Project-Framework of TB care in prison	133,584	133,752
Training under RNTCP	498,234	258,400
Project Active Case Finding Campaign	155,064	-
Project- Effect of counselling	140,617	-
Total	<u>2,776,097</u>	<u>1,872,772</u>

NEW DELHI TUBERCULOSIS CENTRE

Annexure 1 (for the year ended 31st March 2020)

	<u>Grant-in-aid Salaries</u>	<u>Grant-in-aid General</u>
	<u>(Rs.)</u>	<u>(Rs.)</u>
INCOME		
Opening surplus/(Deficit) (01.04.19)	(176,964)	(77,171)
Grant-in-aid from Govt.of India	47,500,000	7,000,000
Maintenance Grants from TAI	-	10,000
Fees from Patients	-	156,860
Interest income	-	424,852
Other receipts	-	7,824
Total	<u>47,323,036</u>	<u>7,522,365</u>
 EXPENDITURE		
Salary & Other Staff expenditure	47,155,910	-
Administrative Expenses	-	5,921,970
Expenses on X-Ray Films, Drugs & Medicines		
and Lab. Consumable	-	487,639
Total	<u>47,155,910</u>	<u>6,409,609</u>
Surplus/(Deficit)	167,126	1,112,756
 Total Surplus (Deficit) as on 31.03.2020		<u>1,279,882</u>

NEW DELHI TUBERCULOSIS CENTRE

Schedule – 19

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 :

Provision towards gratuity liability is being made on adhoc basis (as per the rules of Tuberculosis Association of India) and the said fund is maintained by Tuberculosis Association of India. However from Financial Year 2019-20 onwards the said fund is maintained by the Centre. The accumulated balance as on 1st April, 2019 of the said fund lying with Tuberculosis Association of India is yet to be received by the centre.

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, 2020 amounting to Rs. 2,45,744/- 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: 13.11.2020**