

**Central Forensic Science Laboratory, Kamrup, Assam**

**Annual Report 2020-21**

1. Total Cases handled during the period:

| Name of Division  | B/F        |            | Cases Received |                   | Cases Disposed |              | Cases Pending |              |
|-------------------|------------|------------|----------------|-------------------|----------------|--------------|---------------|--------------|
|                   | Cases      | Exhibits   | Cases          | Parcels /Exhibits | Cases          | Exhibits     | Cases         | Exhibits     |
| <b>Ballistics</b> | 3          | 50         | 17             | 47                | 15             | 587          | 5             | 32           |
| <b>Biology</b>    | 0          | 0          | 15             | 40                | 15             | 64           | 0             | 0            |
| <b>Documents</b>  | 1          | 9          | 44             | 14018             | 41             | 9036         | 4             | 16049        |
| <b>Explosives</b> | 24         | 58         | 14             | 28                | 37             | 96           | 1             | 11           |
| <b>Physics</b>    | 1          | 47         | 1              | 2                 | 2              | 49           | 0             | 0            |
| <b>Toxicology</b> | 1          | 5          | 14             | 21                | 13             | 30           | 2             | 8            |
| <b>DNA</b>        | 0          | 0          | 41             | 219               | 14             | 87           | 42            | 282          |
| <b>Narcotics</b>  | 0          | 0          | 4              | 5                 | 0              | 0            | 4             | 5            |
| <b>Digital</b>    | 202        | 697        | 138            | 259               | 285            | 2564         | 55            | 187          |
| <b>TOTAL</b>      | <b>232</b> | <b>857</b> | <b>303</b>     | <b>14639</b>      | <b>422</b>     | <b>12513</b> | <b>113</b>    | <b>16574</b> |

2. Total No. of crime scenes attended and court evidences deposited:

- Voice sample Collection: 03 in Assam & Nagaland.
- Court evidences deposited: 07 in Assam, Delhi, Manipur & West Bengal.

3. No. of papers published in International Journals: 01

- Jain R, Tripathi RM, Negi A, Singh SP. A simple, cost-effective and rapid method for simultaneous determination of *Strychnos nux-vomica* alkaloids in blood and Ayurvedic medicines based on ultrasound-assisted dispersive liquid-liquid microextraction-thin-layer chromatography-image analysis. Journal of Chromatographic Science May 2020, 58(5):477-484. doi: 10.1093/chromsci/bmaa007.

4. No. of training imparted: 01

- Introductory course for NIA Officers on ‘Digital & Document Evidence’ was conducted at National Investigation Agency (NIA), Guwahati Branch on 06/03/2021.

5. Lectures delivered: 11

- Sh. L. Nato Singh, Assistant Director & Scientist ‘C’ (Documents) delivered 2 lectures on “Handling of Spy Camera and other Recording Devices” and “Overview of Questioned Documents Examination” at the Directorate of Vigilance and Anti-Corruption, Guwahati on 12/06/2020.
- Sh. L. Nato Singh, Assistant Director & Scientist ‘C’ (Documents) delivered 2 lectures on “SOC Management- Search, Seizure and Documentation” to the trainees of e-course on ‘Investigation of Cyber Crime Cases’ of Central Detective Training Institute (CDTI), Kolkata on 28/07/2020 and 16/12/2020.

- Sh. L. Nato Singh, Assistant Director & Scientist 'C' (Documents) delivered a lecture on "VMware Utilisation in Digital Forensics" to the trainees of online 'Introductory Course on Forensic Physical Sciences' of Central Forensic Science Laboratory (CFSL), Bhopal on 23/02/2021.
- Sh. R. Suresh, Deputy Director & Scientist 'D' (Ballistics) delivered a lecture on "Analysis of motion Bullet through Bore of Automatic Pistol" to the trainees of online 'Introductory Course on Forensic Physical Sciences' of Central Forensic Science Laboratory (CFSL), Bhopal on 25/02/2021.
- Sh. L. Nato Singh, Assistant Director & Scientist 'C' (Documents) delivered 3 lectures on "Search & Seizure of Digital Evidence from Scene of Crime and SOPs", "Procedure for Collection of Digital Reference Materials during Investigation" and "Procedure for Submission, Packing and preparation of Questionnaire for Forensic Examination of Digital Exhibits" to NIA Officers on 06/03/2021.
- Dr. Swapnil Gupta, Scientist 'B' (Documents) delivered 2 lectures on "Collection of Standards/ Materials and Markings of Documents for Forensic Examination" and "Preparation of Questionnaire for Document Examination" to NIA Officers on 06/03/2021.

6. No. of training attended by the officers:

No. of training attended: 01

- Sh. R. Suresh, Deputy Director & Scientist 'D' (Ballistics) participated in the virtual 'NABL Assessors' Training Course on ISO/IEC 17025: 2017 (Level 1)' from November 19-21, 2020.

No. of Webinars attended: 13

- Sh. Sujit Kumar Mallick, Scientist 'B' (Biology) participated in the webinar on 'Role of Forensic DNA in Fighting Crime and Expediting Justice' on 01/06/2020 organised by Gujarat Forensic Science University (GFSU), Gandhinagar.
- Sh. Alonga Mandi, JSO (Biology) participated in the webinar on 'Role of Forensic DNA In Fighting Crime and Expediting Justice' on 01/06/2020 organised by Gujarat Forensic Science University (GFSU), Gandhinagar.
- Sh. Swapnil Gupta, Scientist 'B' (Document) participated in the webinar on 'Best Practices for Examining and Reporting in for Examining and Reporting in Forensic Document Cases' organized by Dept. of Forensic Science, Dyal Singh College, Karnal on 10/06/2020.
- Sh. Swapnil Gupta, Scientist 'B' (Document) participated in the webinar on 'Document Examination, Its Scope and Challenges' organised by Shri Vaishnav Institute of Forensic Science, Indore on 14/07/2020.
- Sh. Shishir Pratap Singh, Scientist 'B' (Toxicology) participated in the webinar on 'Early Warning Advisory on NPS (EWA)' organized by UNODC on 22/07/2020.
- Shri R Suresh, Dy. Director (Ballistics) participated in the webinar on 'Forensic Science Setup in India and related issues' held organized by the National Human Rights Commission (NHRC) on 11/08/2020.
- Sh. Sujit Kumar Mallick, Scientist 'B' (Biology) participated in the webinar on 'Forensic Science set-up in India and related issues' organized by the National Human Rights Commission (NHRC) on 11/08/2020.

- Sh. Argha Bandyopadhyay, Scientist 'B' (Explosive) participated in the webinar on "Forensic Science Setup in India and related issues" held on 11/08/2020 organized by the National Human Rights Commission (NHRC) on 11/08/2020.
- Sh Arun Kumar Pal, Scientist 'B' (Ballistics) participated in the webinar on ' Forensic Science set up in India and related issues' organized by the National Human Rights Commission (NHRC) on 11/08/2020.
- Sh. Alonga Mandi, JSO (Biology) participated in the webinar on 'Forensic Science set-up in India and related issues' organized by the National Human Rights Commission (NHRC) on 11/08/2020.
- Sh. Sujit Kumar Mallick, Scientist 'B' (Biology) participated in the webinar on 'Probabilistic Genotyping Unpacked: The Future of DNA Mixture Interpretation' on 27/08/2020 organised by ThermoFisher Scientific.
- Dr. Anil Kumar Sharma, Director & Scientist 'E' participated in webinar on 'GeM Technical and Training Session for Buyers' organised by ISTM on 28/10/2020.
- Sh. Sujit Kumar Mallick, Scientist 'B' (Biology) participated in the webinar on 'eSummit Forensic DNA Profiling Forum' on 30/11/2020 organised by Promega.

7. Any other specific work carried out during the period:

- Consultancy provided to FSL, Meghalaya about procuring of equipment & consumables in Chemical Sciences, DNA, Physics, Ballistics and Documents divisions in State Action Plan (SAP) under MPF 2020-21.
- Consultancy provided to FSL, Meghalaya to establish DNA Profiling facility.
- Smart Class Room with 86-inch Interactive Panel, Micro PC and PTZ Camera was setup in NFSA. This facility is specifically developed for conducting online training, Video-conferencing, Court evidence deposition etc.
- Intra-CFSL Network with a Server and 10 Thin Client Terminals installed in Digital Forensic Division as a part of National Project led by CFSL, Hyderabad.
- First time Hindi Pakhwada was organised with Essay, Debate & Translation activities.
- Cisco Webex installed for video-conferencing.

8. Name of the equipment/software procured:

UV-VIS Spectrophotometer  
 FTIR  
 Real-Time PCR  
 Layered Voice Analysis  
 Polygraph System  
 Suspect Detection System  
 Axiom Complete