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अमृत महोत्सव



GOVERNMENT OF INDIA  
**MINISTRY OF HOME AFFAIRS**



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commenced and experts of CFSLs delivered lectures and provided hands on training to the students, researchers and scientists in the emerging areas of Forensic Science. Eminent experts of the forensic fraternity gave presentations, technical lectures and Q&A sessions on the subject during the courses.

**8.37 Extra Mural Research (EMR) Scheme:** DFSS, MHA, Govt. of India, invited research proposals for its EMR scheme. In response to the advertisement, DFSS received total 119 research proposals from various institutions such as IITs, NITs, C-DACs, universities etc. under the approved EMR scheme in four disciplines of Forensic Sciences. 4 expert committees of experts were constituted for evaluation of received proposals through online presentations for each discipline. Out of 27 selected projects, 11 projects have been approved for funding in first phase. 25% funds have been transferred to the beneficiaries of approved projects to carry out the research work. The main aim of EMR projects is to carry out research and development in grey areas, indigenous development of forensic tools and kits and chemicals used for forensic examination. This will help in cost cutting, technical upgradation and expedite the case examination work.

**8.38 Modernization of CFSLs:** Modernization of four Central Forensic Sciences Laboratories located at Bhopal, Guwahati, Kolkata and Pune had been approved by the Ministry. The newly established CFSLs at Bhopal, Assam (Kamrup) and Pune inaugurated and have commenced operations from the new complexes. The construction work in modern Laboratory building complex in CFSL Kolkata is close to completion.

**8.39** To establish new divisions, as well as to strengthen the existing divisions, the six CFSLs procured equipment during the period are:- Forensic smart server, workstations, Mobile Forensic tools, DVR Examination tool, Forensic Psychology equipments, Muffle furnace, etc. Some equipment are under the active consideration at various level and procurement process is likely to be completed by the end of this financial year.

**8.40** Apart from above, the following facilities created by the CFSLs during the period:-

- The CFSL Chandigarh developing the facility of 'Drone Forensics' which is likely to be operational very soon. The lab has also developed MT DNA sequencing facility and Next Generation DNA sequencing facility.
- The CFSL Assam created the facility for analysis of petroleum products.
- CFSL Kolkata has started examining DVR hard disks without using in built function of DVR.
- CFSL Pune started chemical examination of tobacco cases and generated facility for soil examination.
- NCFL Hyderabad connected smart server with all workstations through LAN as well as other CFSLs through WAN. Now, all the forensic tools are being utilized in the laboratory through centrally located server.

**State-of-the-Art DNA laboratory at CFSL, Chandigarh**

**8.41** The use of DNA analysis in India is at its emerging stage. The DNA Analysis is technique in which individual can be identified



at molecular level. Forensic DNA analysis is a very sensitive and reproducible technique and become one of the most valuable tool in modern criminal investigation, such as, used for the identification of victim and suspect, human identification in mass disasters, paternity and maternity disputes, rape and murder case, child swapping in hospitals, identification of deceased, organ transplantation and immigration. With an increasing demand by the Courts for DNA analysis in criminal cases, there is an increasing need for capacity building in the forensic science laboratory in the country. As part of the capacity building programme, the MHA has set-up a State-of-the-Art DNA Analysis facility in the Central Forensic Sciences Laboratory, Chandigarh. The State-of-the-Art DNA Analysis facility had been inaugurated and operationalized on 23.12.2019.

8.42 Major technology upgrade is included for installation of Digital Autoclaves, Bio-incubators, Tissue Lyzers, Auto-extraction equipment, Gel Documentation Systems, Real-Time Polymerised Chain Reaction, Thermal Cyclers, DNA Sequencers, NGS as well as a robust software for statistical analysis and data management.

8.43 The facility has published various Research papers and examined 421 cases with 2579 exhibits related to POCSO, Sexual assault and DNA analysis.

#### **Establishment of National Cyber Forensic Laboratory (E), Hyderabad**

8.44 Under Cyber Crime Prevention against Women and Children Scheme (CCPWC), a scheme viz. setting up of National Cyber Forensic Laboratory at Hyderabad has been approved by Govt. of India with financial

outlay of ₹ 37.66 crore. The modern laboratory facilities have been inaugurated by Hon'ble Minister of Home Affairs and Cooperation, Sh. Amit Shah on 14.05.2022 in presence of the Hon'ble Minister for Tourism Sh. G. Kishan Reddy and Joint Secretary (CIS) Sh. Ashutosh Agnihotri.

#### **Modernization of State Forensic Science Laboratories**

8.45 As per charter of duties of DFSS, it is continuously providing technical support to State Forensic Sciences Laboratories (SFSLs) in establishment/strengthening of various new and existing Divisions, accreditation, providing SoPs, technology transfer, etc. DFSS has evaluated and recommended proposals submitted by SFSLs under 'Nirbhaya Fund' for establishment /strengthening of Cyber and DNA Divisions. Accordingly, MHA has approved funds of ₹ 217.46 crore and allocated funds to the 24 states/ Union Territories to the tune of ₹ 175.46 crore under Nirbhaya Fund Scheme. DFSS is closely coordinating the physical and financial progress of these projects with the States/UTs for their effective implementation.

#### **8.46 International Cooperation:**

1. Director-cum-Chief Forensic Scientist, DFSS HQs as member of Expert Committee, attended Expert Group meeting of Shanghai Cooperation Organization (SCO) on Forensic Experts Activities on 19th to 20th July, 2022 on preparation for 9th Justice Ministers meeting of SCO Members States.
2. The Expert Committee of CFSLs under DFSS provided detailed report for Strengthening of Forensic Science