



# Annual Administrative Report (2022-23)



**Directorate of Forensics Services  
Himachal Pradesh**

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Website: [www.himachal.nic.in/home](http://www.himachal.nic.in/home)



**National Conference on Emerging Trends in Digital crime and Forensics organized by Regional Forensic Science Laboratory, Northern Range Dharamshala in collaboration with Department of Forensic Science, at Himachal Pradesh University, Shimla on 02-03.12.2022**

## MOTTO

विज्ञानेन् सत्यान्वेषणम्  
'Vigyanane Satya Anveshnam'

विज्ञान से सत्य की खोज  
To dig out truth through science.



## MISSION



Foremost mission of the HPFSL is to serve the society in a holistic manner by way of providing quality and timely reports in criminal and civil cases and in matters of public interest; create a vibrant and intellectual environment in the institution built on trust, commitment to promote good practices and inculcate ethical values and employ modern methods; empowerment of law enforcement agencies, judiciary and enquiry commissions with forensics knowledge for proper investigation and for better understanding, evaluation and appreciation of reports. HPFSL has to emerge as a temple of knowledge sharing with other institutions in the development of the state-of-art forensics in order to open new vistas.

# VISION

- ◆ Quality reports, timely reports by adopting good practices and protocols with latest know-how conforming to national and international standards form the foundation principles of an institution for it to emerge as a premier institution.
- ◆ Achieve excellence in human resource development through training, by creating a congenial scientific ambience that encourages team spirit and ideal professional conduct.
- ◆ Fostering collaboration and co-operation with universities, research undertaking bodies, promoting R&D programmes so as to generate database and for developing state-of-the-art (infrastructure).
- ◆ Building Himachal Forensics into a professional service, enjoying public faith, exhibiting accountability, transparency in order to meet modern challenges of crime. To evolve a mechanism whereby forensic service is available in investigation of all heinous crimes, and whenever required in situations demanding public interest.
- ◆ Help in combating corruption, help in protecting environment and endangered species (flora & fauna), help in upholding human rights and help in preventing human trafficking.
- ◆ Creating public awareness by disseminating knowledge through media (print and electronic) about the cases solved with the forensic tools and techniques, means of a proactive forensics, which is deterrent to the wrong doers and potential criminals. Also, educating public about do's and don'ts on the spot, drug menace, save oneself from cyber crime and about road safety.
- ◆ Encouraging use of more forensic inputs to put investigation on the right track in the beginning itself so as to save police man hours and saving public from unwarranted inconveniences.
- ◆ Promoting ethics in forensics.

# PREFACE

In an era where technology permeates every facet of our daily existence, the evolution of crime-solving has taken on a distinctly futuristic character. Forensic science technologies stand out as essential tools, employed meticulously to collect, analyze, and interpret physical and digital evidence, thereby addressing crimes and legal issues. In recent years, the utilization of technology in forensic science has undergone significant expansion, leading to notable enhancement in the accuracy and reliability of results.

Himachal Pradesh has achieved a historic milestone by becoming the first state in India to institute a DNA database specifically for cold cases, repeat offences and unidentified deceased individuals. This database is anticipated to bring substantial relief to families tirelessly searching for their loved ones, who have been resorting to various means, such as sharing photographs and details. Beyond its impact on identifying the deceased, the DNA database is poised to play a crucial role in the investigation of serious crimes, as well as the identification of disaster victims, missing persons, and repeat offenders.

The primary focus for this coming year will be on integrating cutting-edge technology, and enhancing the capacity of the staff to ensure they stay abreast of the latest developments in forensics. Additionally, there will be an exploration of forensic aspects related to vehicles, drones, and human behavior. Additionally, the laboratory will endeavor to establish digitized data centers at the range level for the processing of digital devices. The subsequent analysis of reports will take place at the forensic laboratory, aiming to alleviate the workload on labs and guarantee the timely generation of reports.

It is with immense satisfaction and pride that we present the annual administrative report of the Directorate of Forensic Services, Himachal Pradesh. This report serves as a thorough account of the triumphs, progress, and contributions of our laboratory to the field of forensic science throughout the past year. This report also provides glimpse into the internal operations of our laboratory, shedding light on our activities, achievements, challenges, and future goals.

The institution is devoted to the pursuit of truth and justice. The laboratory plays a vital role in supporting law enforcement agencies, judicial systems, and the overall integrity of the criminal justice system. Our steadfast dedication to excellence, precision, and scientific rigor remains unwavering as we strive to provide timely and dependable forensic analyses to assist in investigations and court proceedings.

**(Dr. Meenakshi Mahajan)**  
**Director Forensics Services, HP**

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# DIRECTORATE OF FORENSICS SERVICES

## INTRODUCTION:

The journey of Directorate of Forensics Services commenced with the creation of State Forensic Science Laboratory on 13-12-1988 at Police Headquarters, Shimla. The organization primarily caters to the needs of investigation agencies viz. Police, Vigilance, CID. Also, rendering services to judiciary, universities, boards, banks, enquiry commissions and other government departments. Before it came into existence, the said departments were dependent on central government institutions: Central Forensic Science Laboratories, Government



Examiner of Questioned Documents and Serologist to the Government of India, Kolkata. The FSL started functioning from barracks of Police Complex Bharari, Shimla with two divisions encompassing four specialities namely Biology & Serology and Chemistry & Toxicology. Then moved to Junga in 1996 and started functioning from the premises of Police Training School. Two more divisions viz. Documents & Photography and Physics & Ballistics were created in 1997 and became functional in the year 2000. In order to ensure independent functioning of investigation agencies working on scientific principles, the laboratory was placed directly under Home Department in the year 2005. Thereafter in the first meeting of HP Forensic Science Development Board (2006) two new divisions viz. DNA and NDPS were created at State FSL, and two Regional Forensic Science Laboratories were created each in the Northern Range and Central Range at Dharamshala and Mandi. For the continuous development of Forensic Science in the Himachal Pradesh, the First Five year Perspective plan (2014-19) was approved in the 8<sup>th</sup> meeting of HPFSDB in the year 2014.

A First: Disaster Victim Identification (DVI) cells were established in State FSL & RFSLs in 2014-15 as per Interpol guidelines. Voice analysis & Digital Forensics at State FSL, DNA facility at RFSL, NR Dharamshala, RFSL, CR, Mandi and First District Forensic Unit (DFU) at Bilaspur were sanctioned in 2015-16 and subsequently operationalized. The Forensic Psychology Division was sanctioned in 2017 and the Digital Forensic and Forensic Auditing facilities, the latter being first of its kind in the country, to detect frauds through digital evidences was created at RFSL, NR, Dharamshala in 2017-18. Likewise, the voice analysis facility was extended to RFSL CR, Mandi. Himachal Forensics has taken a lead by making amendment in the HP Police Act, 2007 in the year 2018 to bring administrative reforms wherein the Forensics Directorate would be headed by the Director General (Forensics), Forensic set-up at Range would be headed by the Range Director and District Units would be headed by the Assistant Director/Dy. Director besides integration of Finger Print Bureau with the Directorate of Forensics Services to bring all forensic facilities under one umbrella. Further, two more District Forensic Units one each in Northern Range and

Southern Range were created and operationalised in Police District Nurpur and Police District Baddi (2019-21).

The Director was declared Head of the Department in the year 2009 for more administrative and financial autonomy. The new nomenclature Directorate of Forensic Science (DFS) was approved by the Govt. in accordance with the HP Police Act, 2007 and notified in the Business of the Govt. of Himachal Pradesh (Allocation) Rules, 1971 in the year 2015-16. Now nomenclature of Directorate of Forensic Science (DFS) has been amended as Directorate of Forensics Services in the Business of the Govt. of Himachal Pradesh (Allocation) Rules, 1971 in January 2020.

A scheme was designed, approved and operationalised in 2017 for disposal of Bio-Medical Waste from the labs. The H.P. Forensic Document Examiner and Finger Print Examiner Authority (2017) for private practitioners were approved by the Government.

Himachal Forensics scaled new heights to emerge first amongst State & Central Forensic Labs in the country after becoming member of Asian Forensic Sciences Network (AFSN). Also DFS, HP appeared on the global map when succeeded in getting ISO/IEC 17025:2005(2018) and thereafter ISO/IEC 17025:2017 accreditation from NABL and became fifth State FSL & first RFSL NABL accredited labs in the country. Likewise, NDPS division of State FSL got registered with the United Nations Office on Drugs & Crime (UNODC) to participate in the International Collaborative Exercise (ICE) as a measure of quality assurance programme with the United Nation Lab.

Two Cyber Training Centres, State-of-the-art cyber forensic labs, at State FSL & RFSL Dharamshala were established with the funds received under Prevention of Cyber Crime against Woman & Children scheme (CCPWC/MHA, GOI) and strengthened the DNA and Cyber labs under Nirbhaya Fund MHA, GOI.

All the laboratories of the DFS H.P. are the approved centres for crime case analysis of Central Investigation Agencies viz. National Investigation Agency (NIA) and Central Bureau of Investigation (CBI) and the department earned appreciation from the NIA and many other investigation agencies of the state and the country.

This Directorate in consonance with the budget speech assurance (2020-21), took stride to solve cold cases and repeat offences; an initiative was taken to set up DNA Database. Accordingly, Small Pond DNA database software was procured by incurring expenditure of 55 lacs and thereafter started making database of the samples analyzed in the DNA laboratories (2022).

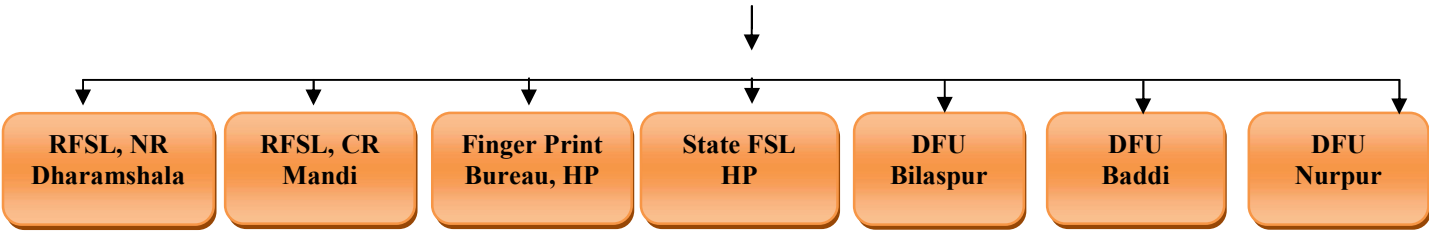


# ADMINISTRATIVE SET-UP

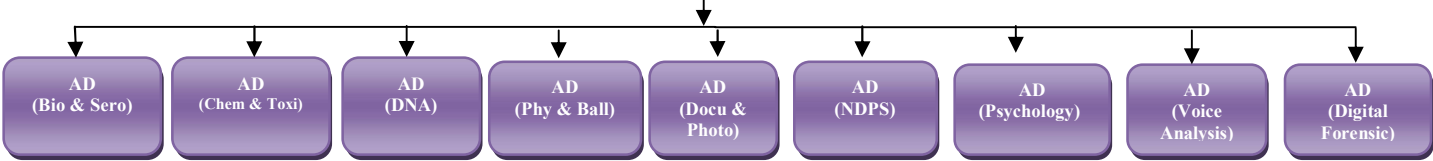
**Hon'ble Chief Minister Himachal Pradesh**

**Secretary (Home)**  
(Administrative Head)

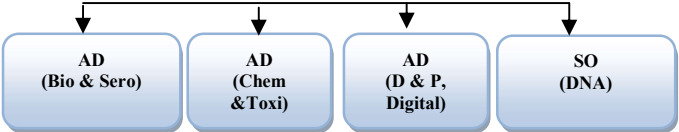
**Director Forensics Services**  
(Head of Department)



**State FSL**



**Deputy Director (NR)**  
(Head of Office)



**Deputy Director (CR)**  
(Head of Office)



## MANDATE

- ◆ ANALYSIS OF CRIME EXHIBITS/CLUES IN THE LAB
- ◆ SCENE OF CRIME EXAMINATION & RECONSTRUCTION
- ◆ FORENSIC INTELLIGENCE & ADVISORY ROLE  
(To put investigation on the right track in the beginning itself)
- ◆ EXPERT TESTIMONY IN COURTS/ENQUIRY COMMISSIONS
- ◆ TEACHING, TRAINING AND PUBLIC AWARENESS
- ◆ RESEARCH & DEVELOPMENT IN FORENSICS



# **HIMACHAL PRADESH FORENSIC SCIENCE DEVELOPMENT BOARD**

The Government of Himachal Pradesh constituted Himachal Pradesh Forensic Science Development Board vide Notification No. Home (A)B(12)3/94 dated 09.12.2005 to augment forensics in Himachal Pradesh with specific terms of reference including implementation of National Human Rights Commission Core Group Report-1999 in a phased manner. The composition and terms of reference of H.P. Forensic Science Development Board is as under:

## **NOTIFICATION**

The Governor, Himachal Pradesh, is pleased to constitute the Himachal Pradesh Forensic Science Development Board in the following manner in order to encourage the development and use of Forensic Science for investigation of crime in the state:-

Hon'ble Chief Minister, Himachal Pradesh.	<b>Chairman</b>
Chief Secretary to the Govt. of H.P.	Vice-Chairman
Advocate General, Himachal Pradesh, Shimla.	Member
Addl. Chief Secretary/Pr. Secretary (Finance) to the Govt. of Himachal Pradesh.	Member
Pr. Secretary (Home) to the Govt. of H.P.	Member
Director General of Police, Himachal Pradesh.	Member
Director-cum—Chief Forensic Scientist, Directorate of Forensic Science, MHA, GOI, New Delhi or Regional Forensic Science Lab. Chandigarh.	Member
Director, Vigilance, Himachal Pradesh.	Member
Director, Prosecution Govt. of Himachal Pradesh.	Member
Director, State Forensic Science Lab. H.P.	Member Secretary
Addl. Director General (APT), H.P. Shimla.	Member
Professor & Head, Deptt. Of Forensic Medicine, IGMC, Shimla.	Member

The Vice Chairman shall preside over meetings of the Board in the absence of the Chairman. The Board may co-opt experts for any meeting of the Board. TA/DA of members and experts, if any, shall be borne by parent organization. The Board will be serviced from the Forensic Science Lab. Junga.

The Board shall meet quarterly to monitor development, proper functioning and progress of the Forensic Science set-up in Himachal Pradesh and shall approve a five year Perspective Plan as well as

Annual Plans of Action for induction of Forensics into investigation and prosecution.

**Terms of reference:**

The terms of reference of the Board shall be as under:-

1. To lay down basic policies in application of Forensic Science to crime investigation and to ensure progressive development of Forensic Science services in the State in a time bound manner.
2. To oversee implementation of the recommendations contained in the National Human Rights Commission Core Group Report-1999, Plan for modernization of Forensic Science set-up in Himachal Pradesh 2000 and the two member committee report on Forensic Science submitted by Dr. M. S. Rao, Director-cum-Chief Forensic Scientist, Ministry of Home Affairs, Govt. of India, New Delhi on 31.3.2000 to Home Department in a phased manner.
3. To ensure autonomy, transparency, impartiality and credibility of the Forensic Science reports in the State and that of the Forensic Science institutions.
4. To identify needs for creation of different specialties/facilities in Forensic Science set-up in the State and providing facilities for the same. This will include creation of Regional Forensic Science Laboratories with mobile units at Range headquarters in Himachal Pradesh for providing quick response Forensic Science at the scene of crime.
5. To ensure that forensic inputs are effectively utilized in investigation and prosecution and to lay down training and communications policies for the purpose.
6. To analyze important cases of investigation/prosecution failure to identify additional forensic inputs that may be necessary to raise the success rate of conviction.
7. To approve the Annual Report of the Forensic Science Lab. and its contribution to investigation and successful Prosecution.

**(BY ORDER)**  
Chief Secretary  
to the Government of Himachal Pradesh

## PURCHASE OF STORES

There is no separate wing to effect purchases in the department. In order to bring transparency, the Government vide notification No. Home-C(C)14-1/2 dated 13.3.2007 constituted a committee to have all major purchases in Machinery & Equipment and Material & Supply budget head through the purchase committee. The composition of the committee is as under:

### NOTIFICATION

In supersession to this department notification of even number dated 27.2.2007, the Governor, Himachal Pradesh is pleased to re-constitute a purchase committee consisting of following officers in the office of State Forensic Science laboratory, Junga to effect purchases and authorization of expenditure in Machinery and Equipments/Material and Supplies from sources as required/necessitated in view of provisions contained in H.P. Financial Rules, 1971:-

- |    |   |                 |
|----|---|-----------------|
| 1. | Director, FSL   | <b>Chairman</b> |
| 2. | Commandant/Asstt. Commandant<br>Police Battalion at Junga.              | Member          |
| 3. | Assistant Director/Scientific Officer<br>of concerned Division of SFSL. | Member          |
| 4. | S.O. (Accts.), PHQ  | Member          |

**(BY ORDER)**

Pr. Secretary (Home)  
to the Government of Himachal Pradesh



**A view of Gas Chromatograph-Mass Spectrometer (Triple Quadrupole)**

# STATE FORENSIC SCIENCE LABORATORY

## INTRODUCTION:

The State FSL is located at Junga. The Junga remained capital of erstwhile princely state Keonthal ruled by Chandrabansi dynasty. HH Hitender Sen, 77th Raja, was the last ruler of Keonthal state. Junga is strategically located at the centre of the triangle formed by Shimla, Chail and Kufri, famous tourist destinations, at an elevation of 5350ft.

The State FSL is located at a distance of 25 km from the state capital of Himachal Pradesh, where first Finger Print Bureau of the world remained (1905-1922) and the second oldest forensic institution in the world 'GEQD Shimla' was established in 1904. The weather at Junga remains pleasant throughout the year.

The State FSL complex comprises of an administrative block, laboratory blocks and residential blocks. The covered floor area of administrative & laboratories blocks is about 33000 square feet. The State FSL receives cases for examination from the districts of southern range viz. Shimla, Kinnaur, Solan and Sirmour. For Lie Detection, NDPS and Fingerprint cases, the State FSL caters to the needs of all the districts of Himachal Pradesh. Analysis of crime exhibits and research problems require consultation of literature, accordingly, a library with books and journals is available. To keep pace with international scenario, the institution subscribes to journals and is on the e- mailing list of Royal Canadian Mount Police Journal (RCMP) and FBI bulletin (U.S.A) since 2013.

A First: Expert testimony through Video Conferencing facility was established at Forensics Headquarters in 2015. A Pilot Project "One District one Police Station" (ODPS), first of its kind in the country, was extended to PS Sadar Shimla in 2017.

The NDPS division of State FSL is registered with the United Nation Office on Drugs & Crime (UNODC).

The construction of the Super-Speciality Block with an estimated cost of Rs.10 crores is coming up and likely to be completed in the year 2024.

## WORKING:

There are ten scientific Divisions with fourteen specialties.

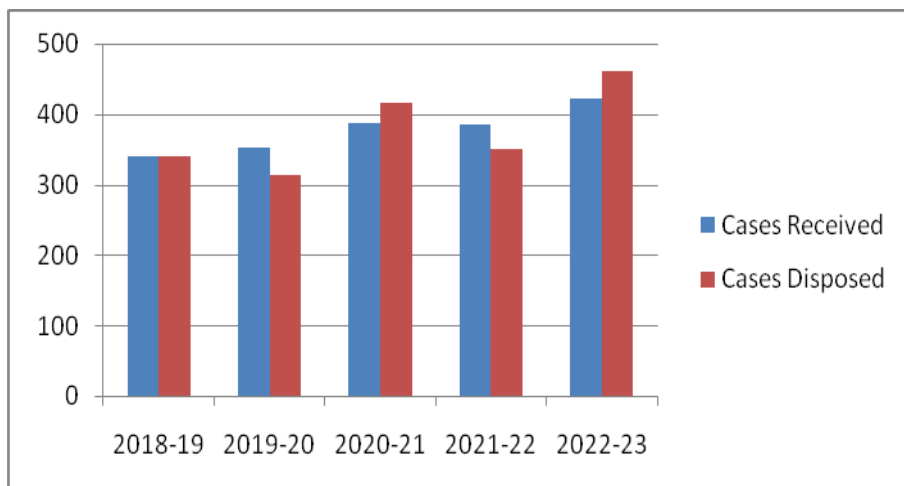
- Biology & Serology
- Chemistry & Toxicology
- Digital Forensics
- DNA
- Documents and Photography
- Finger Print Bureau
- Forensic Psychology
- NDPS
- Physics & Ballistics
- Voice Analysis

## Biology & Serology Division

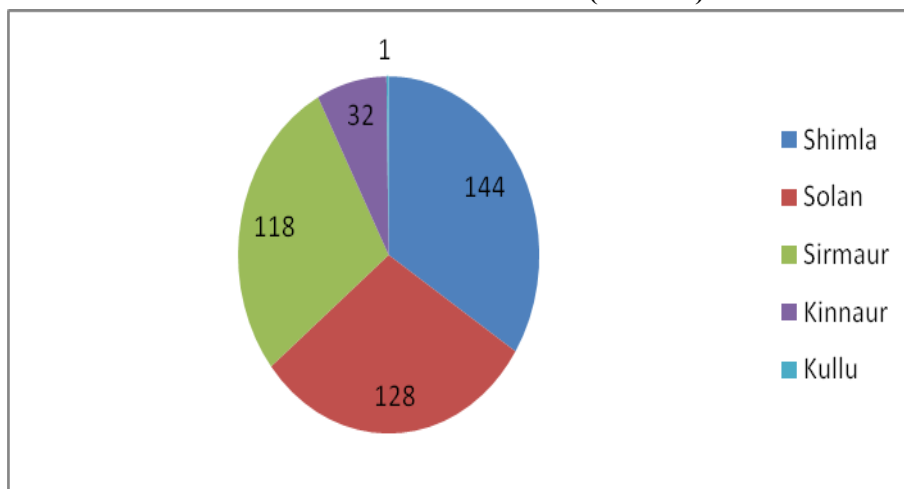
Evidences of biological origin play a vital role in cases of homicide, suicide or accidental death, sexual assaults and in cases of wildlife (flora and fauna) besides ante-mortem or postmortem drowning. The clues are examined for the purpose of identification and comparison with control samples. Types of evidences examined are given as under:

- Blood, semen and saliva
- Vomit, fecal matter
- Tissues and skin
- Bones
- Hair (animal & human), fiber, feather
- Maggots
- Wood and plant material
- Animal skin, blood, flesh etc.
- Diatoms in drowning cases

### CASE STATISTICS



### DISTRICT WISE RECEIPT (2022-23)

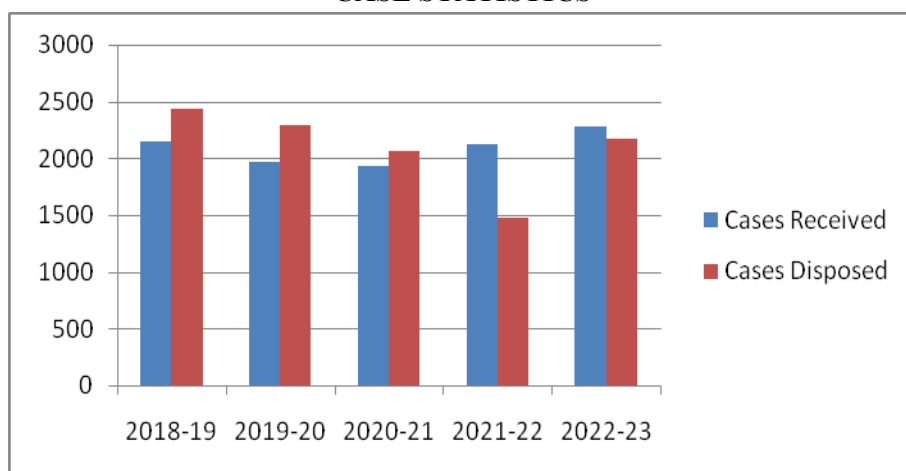


## Chemistry & Toxicology Division

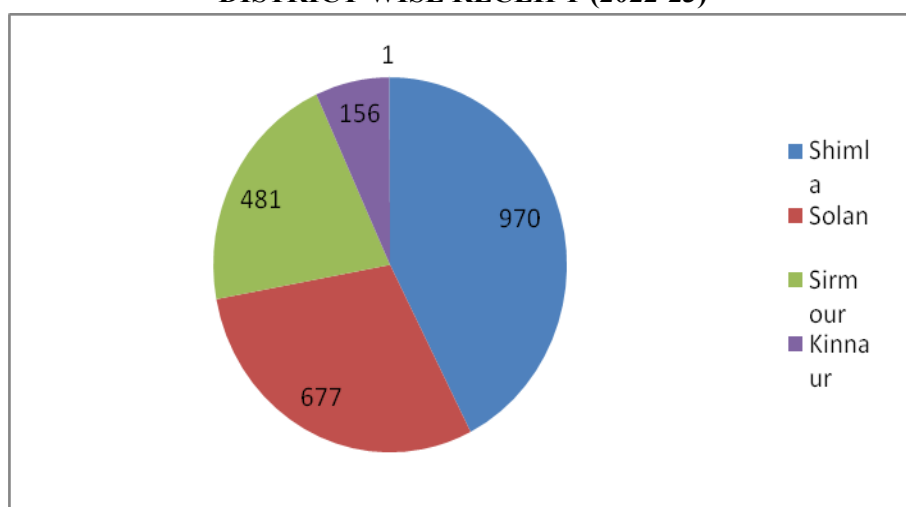
The insecticides and pesticides are widely used in the state for agricultural purposes. Thus making their accessibility easy for common man as poisons. In addition, large number of deaths per annum is reported during road accidents, thereby, contributing more viscera cases. Also, the division undertakes the examination of excise cases. The following clue materials are examined:

- Chemical identification of unknown substances
- Poisons from viscera samples
- Petroleum products residues in arson , dowry deaths & in adulteration cases
- Alcohol from blood and urine for drunkenness
- Acid and alkali attacks
- Grease, Wax, natural oils and resins
- Trap cases
- Hooch tragedy cases
- Cosmetics and organic dyes
- Liquor cases

### CASE STATISTICS



### DISTRICT WISE RECEIPT (2022-23)



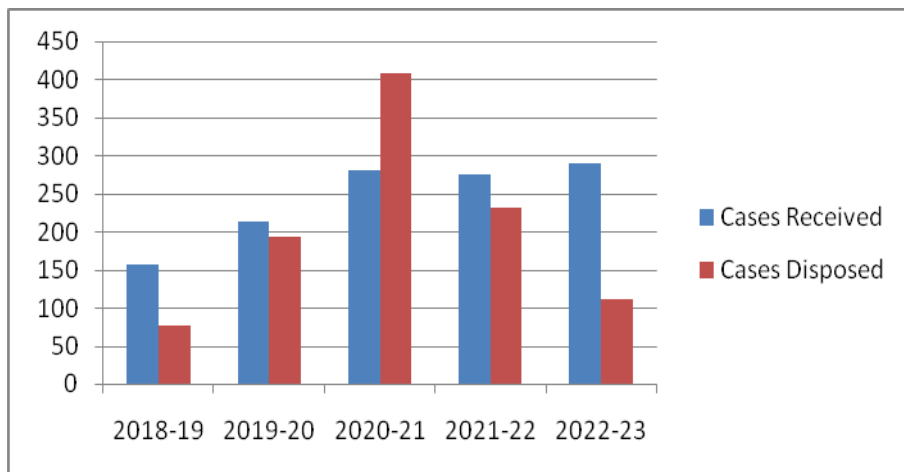


## Digital Forensics Division

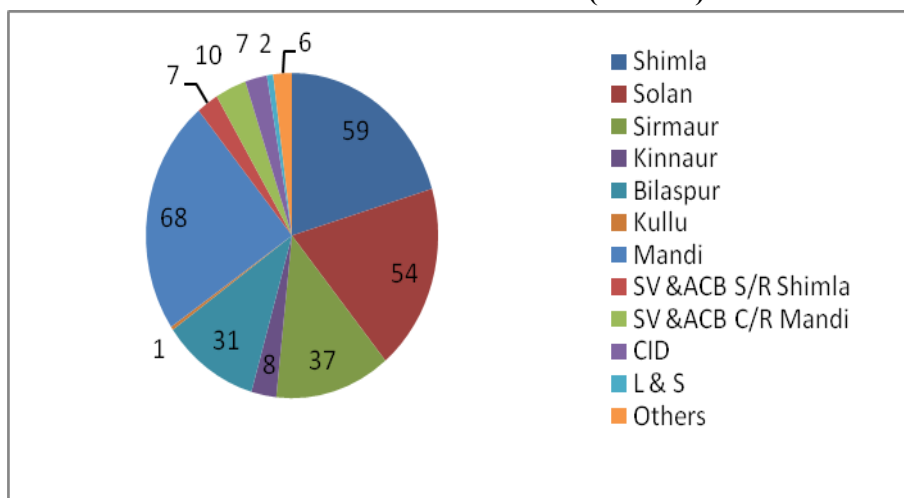
The Digital Forensics, firstly created in the Document & Photography Division (2010), to examine and report digital evidences encountered in diverse nature of crime. Thereafter, infusion of digital technology in all spheres of activities leads to tremendous increase in the receipt of digital evidences. As a result, separate Digital Forensics Division was created at State FSL in the year 2015. The division undertakes the examination of:

- Computers (RAM, ROM (HDD, SSD etc.)
- Cell Phone Devices
- Cloud Storage
- Drones
- SIM Cards
- Flash Drives
- DVR/NVR
- Digital Camera

**CASE STATISTICS**



**DISTRICT WISE RECEIPT (2022-23)**

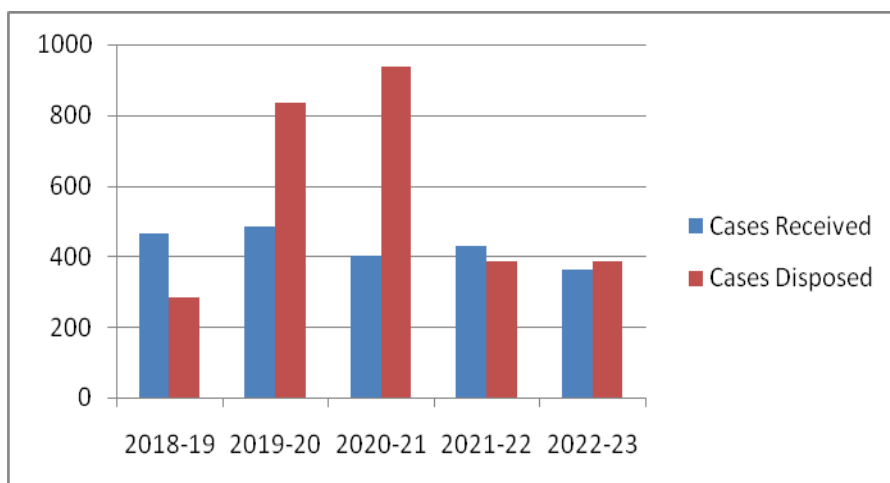


## DNA Division

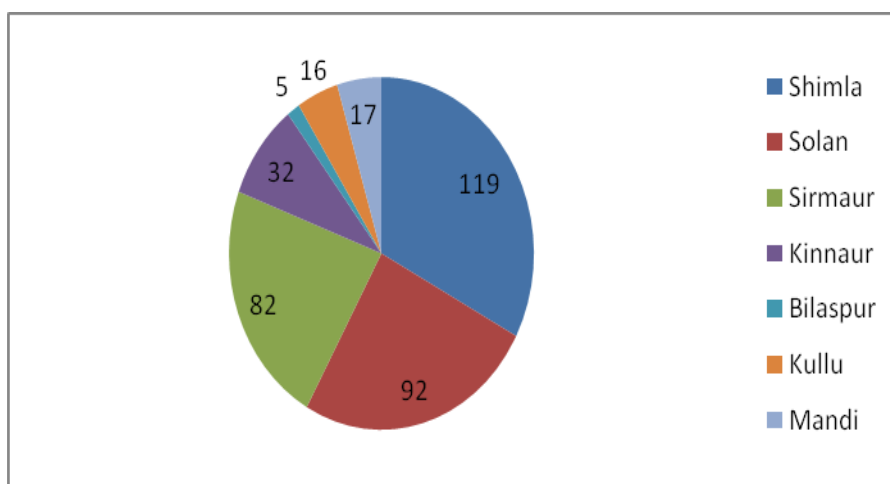
The Government of Himachal Pradesh created dedicated DNA division in the year 2006 to provide irrefutable linkage in the offences like sexual assaults (including cases registered under POCSO Act 2012), homicides, murder, unidentified dead bodies in mass disasters, paternity etc. The DNA profiling was firstly started in Biology & Serology division by after development of necessary infrastructure in the year 2008. The division undertakes DNA profiling of biological clues such as:

- Human body fluids (blood, semen, saliva, urine etc.)
- Human body tissues (hair, skin, flesh & bone)
- Nail bed materials
- Teeth
- Vomit
- Foetal remains & retained product of conception
- Cigarette/Bidi butts
- Wildlife Exhibits

### CASE STATISTICS



### DISTRICT WISE RECEIPT (2022-23)

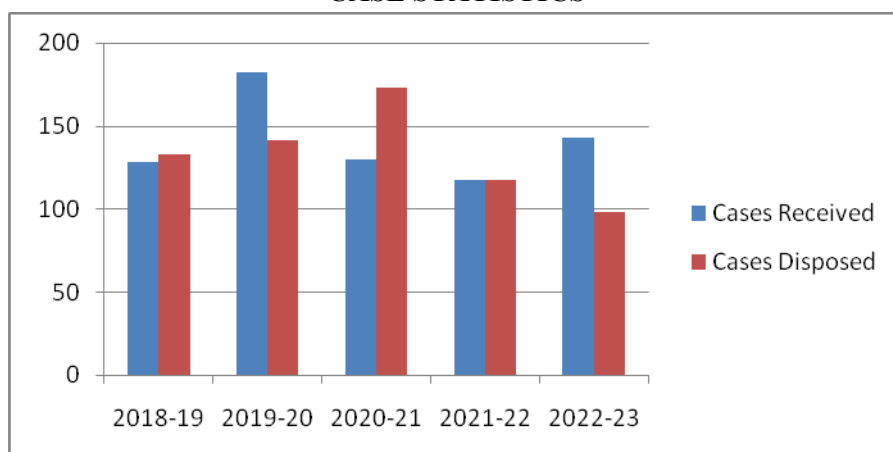


## Document & Photography Division

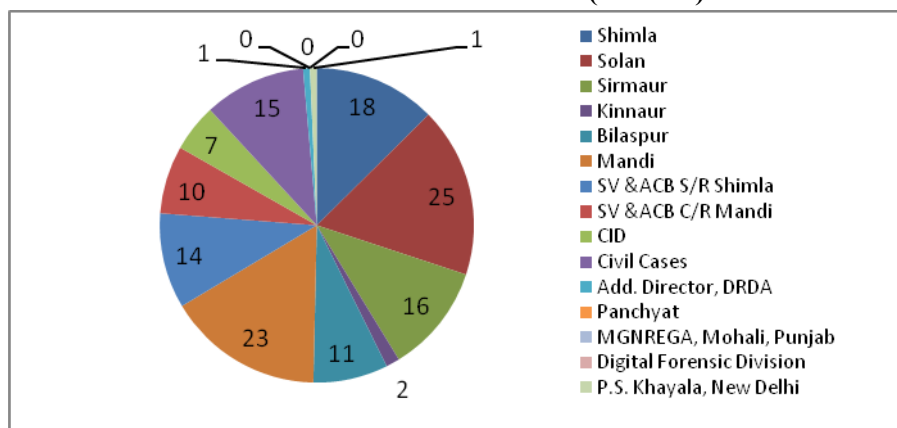
The founder Director of State FSL examined and reported cases of handwritings, frauds & forgery, alteration, obliteration, additions, substitutions etc., till September 1993. Thereafter, the examination work stopped and again commenced when new scientific posts were filled up by the State Government (2000). The division undertakes examination of:

- Handwriting & signature
- Type writing including electronic typewriting
- Computer printout
- Printed material
- Additions, Alteration, obliteration, substitutions, erasures
- Stamps & seals
- Counterfeit currency
- Security documents
- Passports
- Financial Documents (Credit Card, Debit Card)
- Burnt & soiled documents,
- Paper and ink analysis
- Scene of crime photography
- Inter and intra division photography

### CASE STATISTICS



### DISTRICT WISE RECEIPT (2022-23)

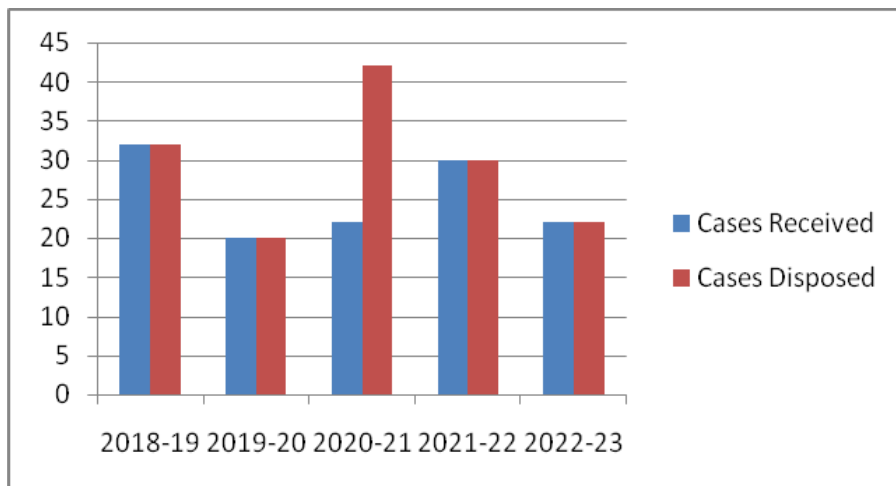


## Fingerprint Bureau

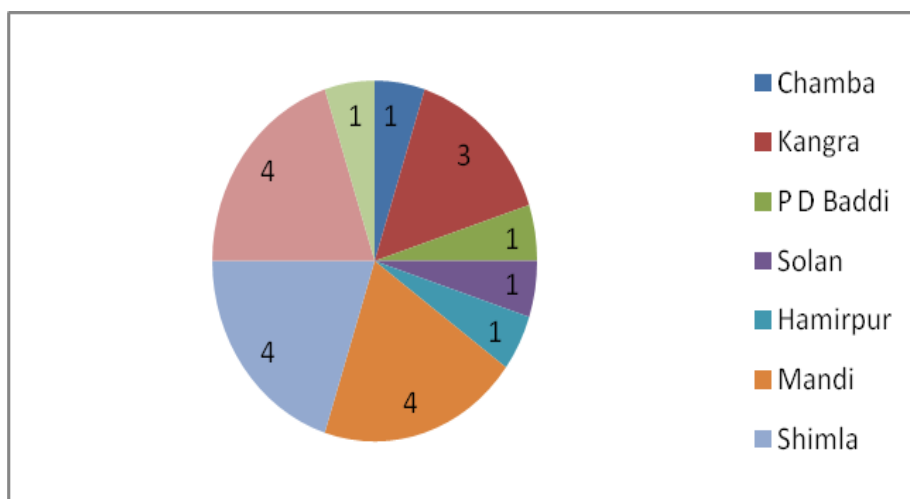
The Finger Print Bureau was established in January 2003 in Himachal Pradesh. The state Govt. made amendments in the Police Act 2007 and placed the Finger print Bureau under the administrative control of Director Forensics Services Himachal Pradesh in the year 2018 to bring all scientific techniques under one roof. The Finger Print Bureau undertakes the followings:

- The preservation of ten digit finger print slips of convicted criminals in the NAFIS
- The preservation of ten digit finger print slips of arrested criminals in the NAFIS
- Lifting of latent prints at scene of crime in the Southern range
- Comparison of chance prints

### CASE STATISTICS



### DISTRICT WISE RECEIPT (2022-23)

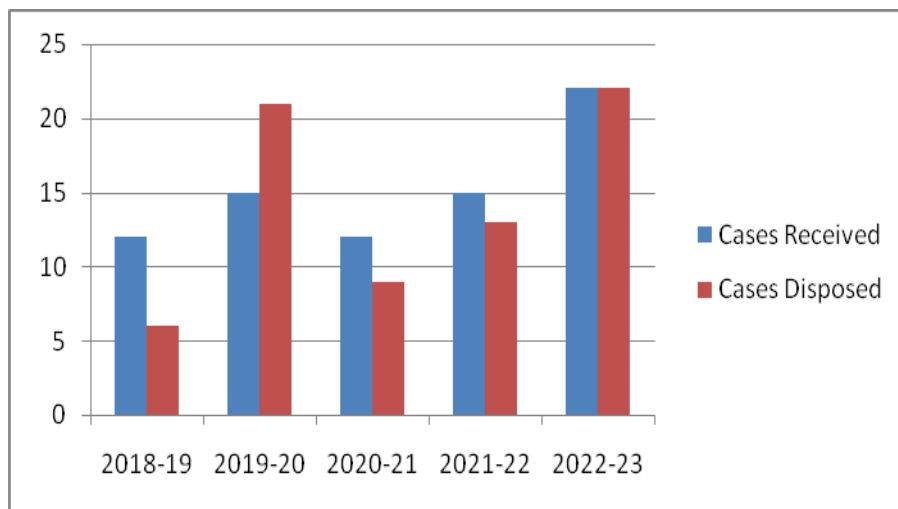


## Forensic Psychology Division

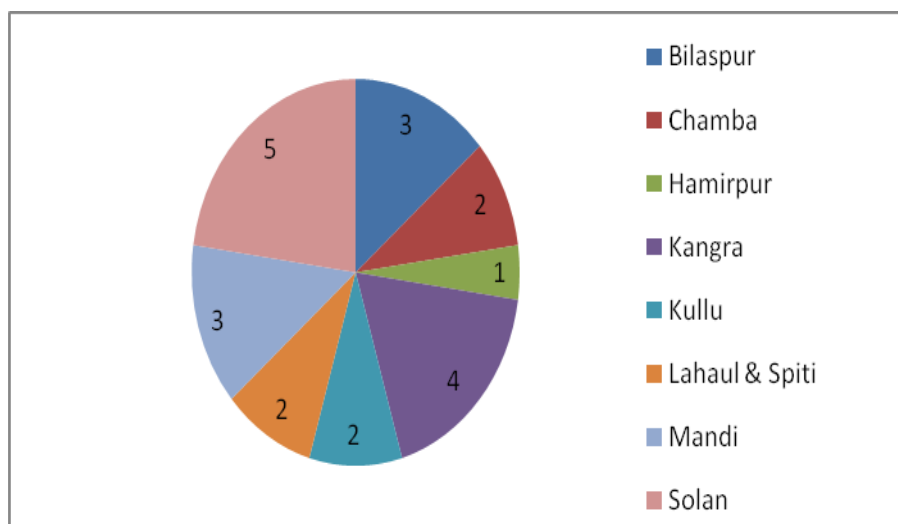
The Govt. of HP created Forensic Psychology Division (2018), operationalized in 2021. The division is now equipped with the State-of-the art infrastructure i.e. Layered Voice Analysis (LVA), Brain Electrical Oscillations Signature Profiling (BEOS), Polygraph (Lie Detection) as forensic intelligence investigation tool. This division evaluates:

- Veracity of statement of suspects, witnesses, complainants and victims of crime.

### CASE STATISTICS



### DISTRICT WISE RECEIPT (2022-23)

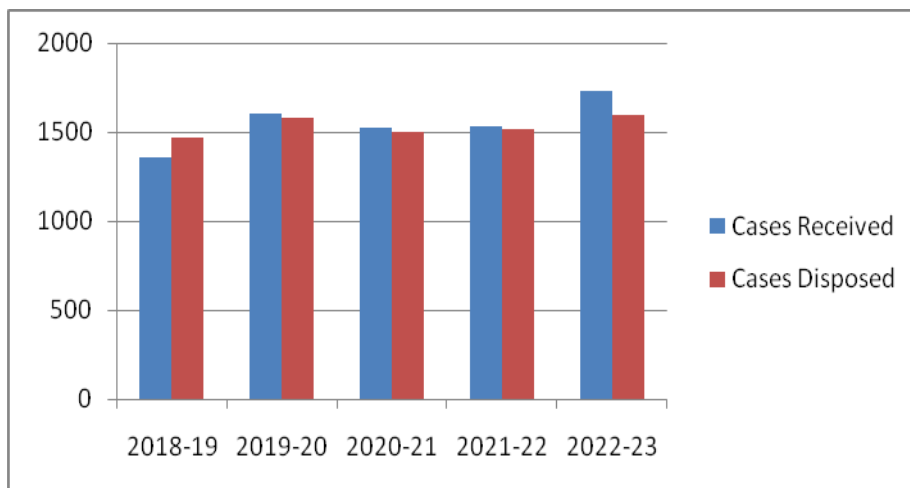


## Narcotic Drugs and Psychotropic Substances (NDPS) Division

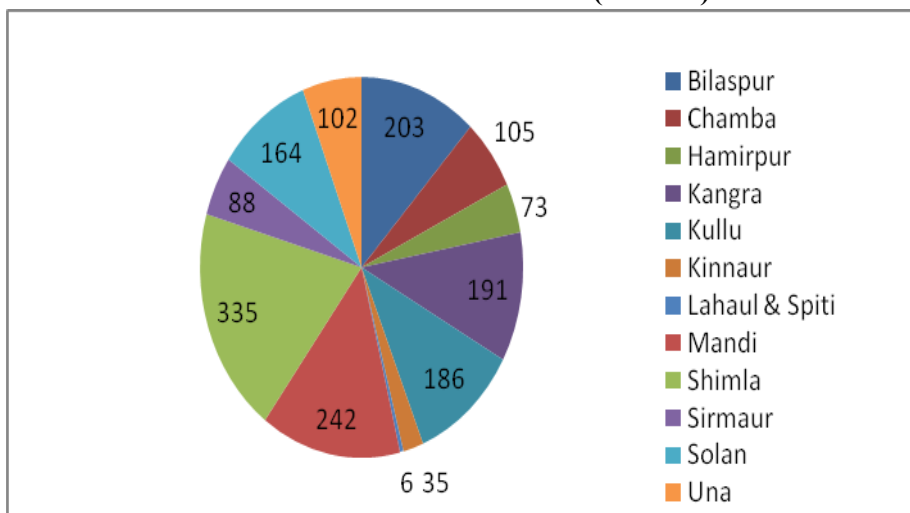
With the increase in the number of NDPS cases in the state due to influx of foreign nationals for world famous Malana cream (Hashish derived from the flower of female cannabis ‘Bhang’ plant), the Govt. established NDPS division in 2006. The substantial increase in the receipt of crime cases experienced during the year due to special drive launched by the Govt. against drug menace. The division undertakes examination of the followings:

- Opium, poppy straw, heroin/smack/brown sugar
- Charas, ganja, bhang & hashish oil
- Cocaine
- LSD, amphetamines & methamphetamines
- Benzodiazepines & prescription drugs
- Manufactured & Designer drugs

### CASE STATISTICS



### DISTRICT WISE RECEIPT (2022-23)

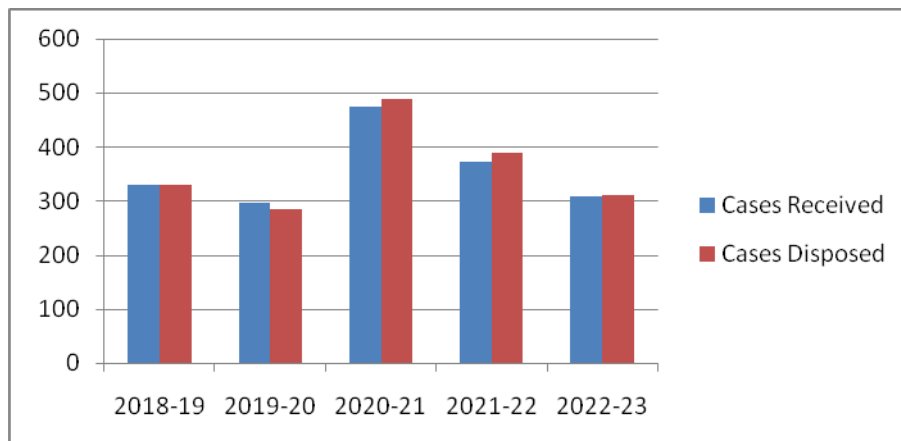


## Physics and Ballistics Division

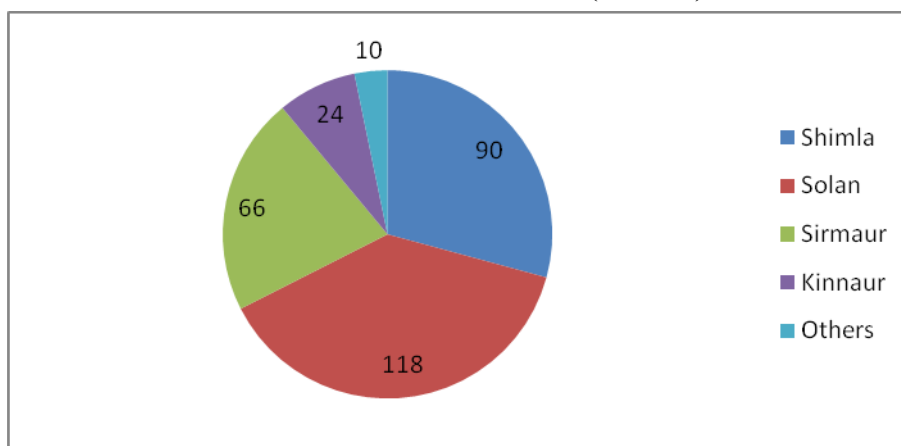
The founder Director of State FSL examined and reported crime exhibits related to Physics & Ballistics till September 1993. The work again started after creation of Physics and Ballistics Division and recruitment of scientific staff in the year 1999. Thereafter, the Voice Analysis facility started in Physics and Ballistics Division. This division undertakes examination of followings:

- Tool marks & cables
- Footprints, shoe prints & tyre marks, skid marks
- Paint and glass
- Building materials & Bitumen
- Paper & fiber
- Metal adulteration in jewellery
- Soil
- Electric short circuit clues
- Resuscitation of vehicle chassis and firearms numbers
- Firearms, ammunition & gunshot residues etc
- Voice Identification & Comparison
- Facial comparison

### CASE STATISTICS



### DISTRICT WISE RECEIPT (2022-23)

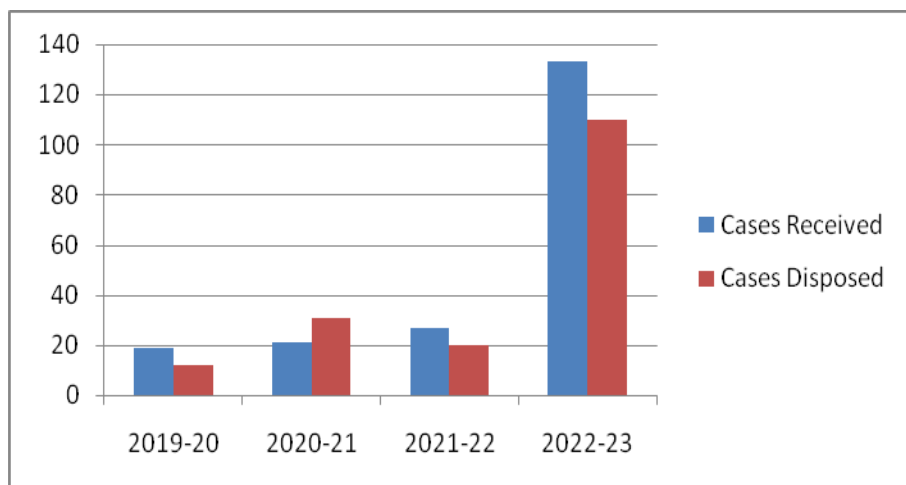


## Voice Analysis Division

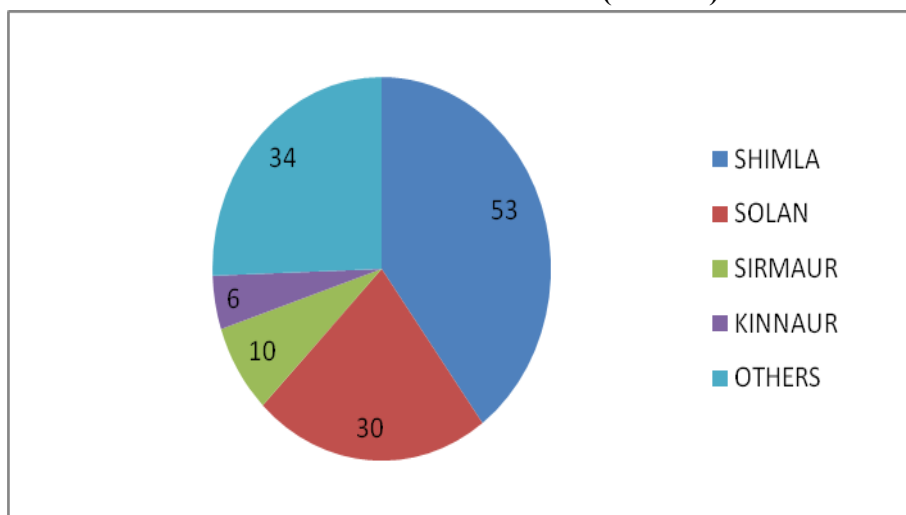
The Voice Analysis Facility for matching and authentication of voice samples was started in 2018 in the Physics and Ballistics division after creation of the Voice Analysis Division. The Govt. of HP recruited scientific staff in the year 2022-23. But the newly appointed staff is under training and the work of analysis is undertaken by experts of Physics and Ballistics. The division undertakes the examination of:

- Authentication of audio and video clips
- Matching of Voice samples
- Image authentication and comparison

**CASE STATISTICS**



**DISTRICT WISE RECEIPT (2022-23)**





## TEACHING & TRAINING

Name & Designation	No. of Lectures/demonstrations
Sh. Visheshwar Sharma, AD (D & P)	13
Dr. Vivek Sahajpal, AD (DNA)	20
Sh. Kapil Sharma, AD (NDPS)	07
Dr. SK Pal, AD (B & S)	17
Dr. Sanjeev Kumar, AD (P & B)	10
Sh. Rajesh Kumar, AD (P & B)	08
Dr. Shivalika Sharma, AD (Psych.)	20
Sh. Hari Krishan Bhardwaj, SO (B & S)	03
Sh. Sanjeev Singh, SO(P & B)	12
Sh. Laxmi Dutt Rahgav, SO(C & T)	02
Sh. Jaswant Singh, SA (D & P)	10
Sh. Mukesh Sharma , SA (P & B)	12
Smt. Nisha Devi, SA (B & S)	05
Sh. Sumesh Rana, SA (Voice)	02
Miss. Priya Verma, SA (Psych.)	03

## TRAININGS ATTENDED

Training is an essential aspect of Human Resource Development. Accordingly, officers and officials were deputed from time to time to undergo training in different pioneer institutions of the country. The details are as under:

Name	Remarks
Sh. Visheshwar Sharma AD (D & P)	<ul style="list-style-type: none"> <li>Course on Expert Testimony in Criminal Trail at NFSU, Delhi Campus w.e.f. 29.08 - 02.09.2022.</li> </ul>
Sh. Kapil Sharma AD (NDPS)	<ul style="list-style-type: none"> <li>On-line International Collaborative Exercise training on New Psychotropic Substances submission organized by Laboratory &amp; Scientific Section, UNODC, Vienna, Austria on 02.08.2022.</li> </ul>
Dr. SK Pal AD (B & S)	<ul style="list-style-type: none"> <li>Training on RTI Act 2005 &amp; Public Service Guarantee Act 2011 at HIPA, Shimla w.e.f. 17- 18.10.2022</li> </ul>
Dr. Shivalika Sharma AD (Psych.)	<ul style="list-style-type: none"> <li>Training on RTI Act 2005 and Public Service Guarantee Act 2011 at HIPA, Shimla w.e.f 17- 18.10.2022</li> <li>Polygraph Techniques and Brain Electrical Oscillation Signature Profiling at Directorate of Forensic Science Laboratories, Mumbai w.e.f. 01-15.12.2022</li> </ul>
Sh. Sanjeev Singh SO (P & B)	<ul style="list-style-type: none"> <li>Training on Firearm related cases at NICFS, Delhi from 26-28.12.2022.</li> </ul>
Sh. Jaswant Singh SA (D & P)	<ul style="list-style-type: none"> <li>Two days training on 'Forensic Document Examination' at GEQD, Shimla on 01-02.09.2022.</li> </ul>
Sh. Mukesh Sharma SA (P & B)	<ul style="list-style-type: none"> <li>Training on Firearm related cases NFSU, Delhi Campus w.e.f 26- 28.12.2022.</li> </ul>

Ms. Priya Verma SA (Psych.)	<ul style="list-style-type: none"> <li>• Orientation to Forensic Science at Directorate of Forensics Services Shimla Hills, Junga (H.P) w.e.f. 16-30.08.2022.</li> <li>• Online Training on LVA Operation on 28.11.2022.</li> </ul>
Sh. Sumesh Rana SA (Voice)	<ul style="list-style-type: none"> <li>• Five days training at RFSL, Mandi, H.P w.e.f 19-23.07 2022.</li> </ul>

### CONFERENCE/SEMINAR/WORKSHOP/SYMPOSIUM ATTENDED

Name	Remarks
Dr. Rajesh Verma Director, DFS, HP	<ul style="list-style-type: none"> <li>• Workshop on Audio, Image and Video Forensics w.e.f. 24-25.03.2023</li> </ul>
Dr. Vivek Sahajpal AD (DNA)	<ul style="list-style-type: none"> <li>• Two days seminar on POCSO at Sardar Vallabhbai Patel, National Police Academy, Hyderabad w.e.f. 26-27.05.2022</li> <li>• Workshop of Stake Holders in POCSO at Hon'ble Supreme Court of India, New Delhi, w.e.f 10-11.12.2022.</li> </ul>
Sh. Kapil Sharma AD (NDPS)	<ul style="list-style-type: none"> <li>• Webinar on Growing Challenges in Cannabinoids Analysis organized by Illicit Drug Working Group, Asia Forensic Science Network, Singapore on 07.05.2022.</li> <li>• National Consultation on Synthetic Drugs organized by UNODC South Asia at New Delhi w.e.f 03-05.08.2022.</li> <li>• Online symposium on Forensic Science Solutions for Emerging Challenges in International Drug Control organized by Laboratory &amp; Scientific Section, UNODC, Vienna, Austria w.e.f. 03-05.10.2022.</li> <li>• Online Presentation on India Drugs Situation as Country Representative in Workshop on Illicit Drugs, Asia Forensic Science Network, held at Jakarta on 08.05.2022.</li> </ul>
Dr. SK Pal AD (B & S)	<ul style="list-style-type: none"> <li>• Webinar on Forensic Science and Criminal Justice System in Criminal Investigation conducted by SIFS, New Delhi w.e.f. 15-17.07.2022.</li> <li>• Online National Symposium on Forensic Odontology &amp; Disaster Victim Identification conducted by Department of Forensic Dentistry, Mathrusi Ramabai Ambedkar Dental College and Hospital, Bengaluru, Karnataka w.e.f. 03-04.02.2023.</li> </ul>
Dr. Sanjeev Kumar AD (P & B)	<ul style="list-style-type: none"> <li>• Workshop on audio, image and video forensics at DFS HP w.e.f. 24-25.03.2023</li> </ul>
Dr. Shivalika Sharma AD (DNA)	<ul style="list-style-type: none"> <li>• Online International Association for Scientific Research (IASR)-Pre-Conference workshop on Lie Detection Sach: A Truth Lie detection in the Judicial System vs Investigate Needs on 25.08 2022.</li> </ul>
Sh. Sanjeev Singh SO (P & B)	<ul style="list-style-type: none"> <li>• Workshop on audio, image and video forensics at DFS HP w.e.f. 24-25.03. 2023.</li> </ul>
Mukesh Sharma, SA (P & B) Sumesh Rana, SA (Voice)	<ul style="list-style-type: none"> <li>• Workshop on audio, image and video forensics at DFS HP w.e.f. 24-25.03. 2023.</li> </ul>

## COURSES ORGANIZED

With the aim to enhance use of forensics in police investigation, also mandated in the terms of reference of HP Forensic Development Board & by the enactment of HP Police Act, 2007, courses were organized. By adopting scientific means, professionalism in crime investigation is bound to increase. Similarly, it becomes imperative to impart training to the stake holders for better understanding, evaluation and appreciation of forensic reports in the Court of Laws for dispensation of justice.

### Trainings/Courses conducted

Course Details	Number of Participants
Five days induction training programme for Newly Appointed Civil Judges on 18-22.04.2022 & 28.11- 02.12.2022	04
Course on Forensic Science for (IOs) w.e.f. 16-30.08.2022	14

### Internship/Training

Sr. No.	Institute/ University	Course Date	Division	No. of Students
1.	NFSU, New Delhi	28.03.2022 to 08.04.2022 30.03.2022 to 08.04.2022	DNA Biology & Serology Digital Forensics	05
2.	Institute of Forensic Science, Lucknow University, Lucknow	26.10.2022 to 24.11.2022 02.01.2023 to 01.02.2023	Chemistry & Toxicology Physics & Ballistics	07
3.	JAIN Deemed-to-be University, Bangalore	01.12.2022 to 31.12.2022	Document & Photography Finger Print Bureau	02
4.	Parul University, Gujarat	01.12.2022 to 31.12.2022	Chemistry & Toxicology Biology & Serology	03
5.	A.P Goyal University, Shimla	03.01.2023 to 02.02.2023	DNA	01
6.	Chandigarh University, Mohali, Punjab	09.01.2023 to 08.02.2023	Chemistry & Toxicology Biology & Serology	02
7.	National Forensic Science University, Goa	01.02.2023 to 31.03.2023	DNA	03
8.	Govt. Holkar College Indore, M.P	08.02.2023 to 07.03.2023	Biology & Serology DNA	07
9.	CHRIST Deemed-to-be University, Bangalore	24.03.2023 to 24.04.2023	Biology & Serology	03
<b>Total Students</b>				<b>33</b>

## COURT EVIDENCE DEPOSED

Name	Number
Sh. Visheshwar Sharma, AD (D & P)	53
Dr. Vivek Sahajpal, AD (DNA)	18
Sh. Kapil Sharma, AD (NDPS)	07
Dr. S.K. Pal, AD (B & S)	06
Dr. Sanjeev Kumar, AD (P & B)	04
Sh. Rajesh Kumar, AD (P & B)	06
Dr. Shivani Vats, SO (DNA)	02
Sh. Sanjeev Singh, SO (P & B)	03
Sh. Sanjeev Kumar, ASI	06

## SCENE OF CRIME

Name	Number
Dr. Vivek Sahajpal, AD (DNA)	04
Dr. S.K. Pal, AD (B & S)	09
Dr. Sanjeev Kumar, AD (P & B)	10
Dr. Shivalika Sharma, AD (Psych.)	01
Sh. Hari Krishan Bhardwaj, SA (B & S)	09
Dr. Shivani Vats, SO (DNA)	08
Sh. Sanjeev Singh, SO (P & B)	12
Sh. Sanjeev Kumar, ASI	29

## RESEARCH PUBLICATIONS

- Bhambara, A.K., Singh, A., **Sahajpal, V.**, Thakur, M., Bhandari, D., Sharma, S. and Thakar, M.K., (2022). Evaluation of Genetic Polymorphisms at 21 Autosomal Str Loci in Ramgharia Sikh Population of Punjab, India. *Annals of Human Biology*, pp.1-16.
- S. Sharma, R. Yadav, **V. Sahajpal**, L. Kumari, A. Sharma (2022). A Comparative Study on the Frequency of Amelogenin Y Deletion in a Brahmin Population of Haryana and Rajasthan State with Other Indian and Global Populations. *Russian Journal of Genetics*, 58(3), pp.359-364.
- Singh, A., **Sahajpal, V.**, Kumar, S. and Thakur, M., 2022, April. Genetic ancestry defies social organization in human populations of western Himalaya, India. In *American Journal Of Biological Anthropology* (Vol. 177, Pp. 169-170). 111 River St, Hoboken 07030-5774, NJ, USA: Wiley.
- Sharma, S., **Sahajpal, V.**, Singh, A., Yadav, R., Thakur, M., Bhandari, D., Ranga, S., Kadian, L. and Yadav, C., 2023. Genetic Diversity Of Autosomal STR Markers In The Brahmin Population Of Rajasthan And Haryana: Significance In Population And Forensic Genetics. *Современныетехнологии в медицине*, 15(1), pp.63-.
- Aparna R., Iyer Shanti R., Das T., Sharma K., Sharma A., Srivastava A. Detection, discrimination and aging of human tears stains using ATR-FTIR spectroscopy for forensic purposes. *Forensic Science International: Reports*, 6 (2022) 100290.
- Singh S, **Pal SK**, Bhardwaj N. **Diatomological mapping of water bodies of Delhi region for forensic consideration.** *Indian Journal of Forensic and Community Medicine* 2022; 9 (4):173-177.

- **Pal SK**, Bhardwaj N, Devi N, Ahluwalia AS. Utilization of siliceous microalgae in solving drowning cases. Abstract accepted for oral presentation at *14<sup>th</sup> Asian Forensic Sciences Network (AFSN) Annual Meeting & Symposium* to be held in Jakarta, Indonesia on Nov.2-5, 2022.
- Singh H, Singla A, Singh H, Gupta M, **Pal SK**. Forensic and pharmacogenetic study of *Asparagus Officinalis* of Bundelkhand region, Uttar Pradesh, India. *GAP Indian Journal of Forensics and Behavioural Sciences* 2023: IV (1): 1-5.
- Bharadwaj N, Ahluwalia S, **Pal SK**, Mandotra SK. Potential of photoautotrophic microbial organisms in deciphering forensic issues. *Legal Medicine* 2023: 62.102223.
- **Pal SK**, Kumari V, Devi N. Impact of biological evidences on DNA profiling of sexual assault cases. *Indian Journal of Forensic and Community Medicine* 2023; 9 (4):173–177.

## **BOOK CHAPTERS**

- **Sahajpal, V**, & Ambers, A. (2023). X-chromosome short tandem repeats (X-STRs): Applications for human remains identification, In *Forensic Genetic Approaches for Identification of Human Skeletal Remains*, Editor: Angie Ambers, ,2023,Pages 231-246,ISBN 9780128157664, Academic Press, USA.
- **Pal SK**, Bhardwaj N, Ahluwalia AS. *Role of Diatoms in Forensics: A Molecular Approach*. In: Srivastava, P., Khan, A.S., Verma, J., Dhyani, S. (eds) *Insights into the World of Diatoms: From Essentials to Applications*. Plant Life and Environment Dynamics. Springer, Singapore, 2023. <https://doi.org/10.1007/978-981-19-5920-29>

## **ACHIEVEMENTS, PROFESSIONAL EXCELLENCE AND MAJOR INITIATIVES**

### **Dr. Vivek Sahajpal, AD (DNA)**

- Creation of DNA database.
- Successfully participated in the International Quality Assurance DNA testing and proficiency program organized by Academia Iberoamericana de Criminalística y Estudios Forensics (AICEF), Spain.
- Associated as a member of the National Committee for creation of DNA database in India, Directorate of Forensic Science Services, MHA Govt. of India.

### **Sh Kapil Sharma, AD (NDPS)**

- Successfully participated in the International Collaborative Exercise (ICE) programme under International Quality Assurance Programme of United Nation Office on Drugs & Crime (UNODC), Vienna, Austria.
- Rendered scientific assistance to bench of Hon'ble Justice B. R. Gavai & C. T. Ravi Kumar, Judge Hon'ble Supreme Court of India in the case related to Poppy Straw and received appreciation from Sh. Abhinav Mukerji, Additional Advocate General, Hon'ble Supreme Court of India.

### **Dr. S. K. Pal, AD (B & S)**

- Received award for best criminologist from Vergara Padilla International Group, Colombia, South America, 2021 (Virtual).
- Best Researcher Award from Applied Forensic Research Sciences (AFRS), Madhya Pradesh on the eve of Teacher's day Celebration & Awards (Virtual).

# **RFSL, NR, DHARAMSHALA**

## **INTRODUCTION:**

In the first meeting of the Himachal Pradesh Forensic Science Development Board, the Government approved setting up of Regional Forensic Science Laboratory, Northern Range to cover the farthest ends and to expedite delivery of forensic reports from the lab. In the beginning (2008), the RFSL, NR Dharamshala was temporarily housed in a rented accommodation, then the RFSL moved to its own complex in 2012. Later-on, to house new specialities viz DNA and Digital Forensics, another block adjacent to the existing complex was constructed with the floor area of about 14,000 square feet. The CCTV and the fiber Network installed in the new DNA & Cyber block. Another advanced instrument lab is also coming up. The RFSL, NR, Dharamshala caters to the needs of the districts viz. Kangra, Chamba, Una for chemistry& Toxicology, Biology& Serology and DNA; and six districts viz. Kangra, Chamba, Una , Hamirpur, Kullu and L&S for Documents & Photography and Digital Forensics. Besides this, the digital forensics cases from Enforcement Directorate, Govt. of India and CBI are also examined from the laboratory. The One District One Police Station: A Pilot Project was firstly launched from the premises of RFSL, Dharamshala in the year 2013 for Police station Dharamshala in district Kangra and thereafter extended to Sadar Chamba in district Chamba in the year 2016.

The RFSL, NR is the First Regional forensic science laboratory in the country to get ISO/IEC17025:2005 NABL Accreditation in the year 2018 and thereafter ISO/IEC17025:2017 NABL Accreditation in 2020. The laboratory is successfully maintaining the accreditation till date and ensuring quality reports from the lab. Also, the laboratory became first to get notification of Examiner of Electronic Evidence u/s 79A of IT Act by Ministry of Electronics and Information Technology, GOI in 2019 for examination of Electronic storage media and cell phone devices. The experts of MeITY annually conduct assessment for maintaining the notification and the lab is successfully getting the same.

The laboratory has established unique facility of examination of damaged cellphone & Flash Drives under Nirbhaya Fund provided by the Govt. of India in the year 2021-22, which is first of its kind in the Northern India.

The forensic experts are rendering services in the field of scene of crime examination and providing regular faculty to the Police Training College, Daroh. The RFSL is on the mailing list of RCMP journal (Canada) and FBI bulletin (USA).

The Forensic experts of document specialty successfully participating in Proficiency Testing Programmes (PT) organized by Asia's best Govt. Forensic Lab in Hong-Kong, AFSN Beijing China, NFS South Korea since 2016-17.

The RFSL, NR became first RFSL in the country to have its own residential complex for the officers and officials to ensure 24x7 availability of its experts for scientific examination of scene of crime.

The laboratory has three divisions and eight specialties:

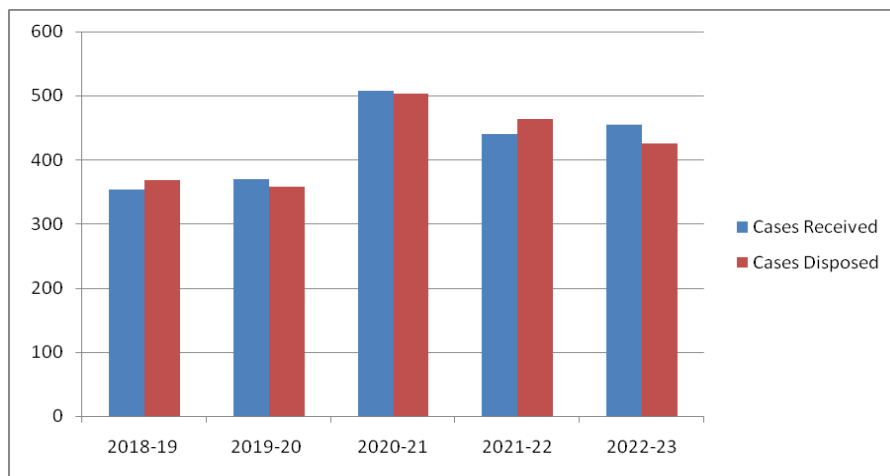
- **Biological Sciences**
  - Biology
  - Serology

- DNA Unit
- **Chemical Sciences**
  - Chemistry
  - Toxicology
- **Physical Sciences**
  - Document
  - Photography
  - Digital Forensics

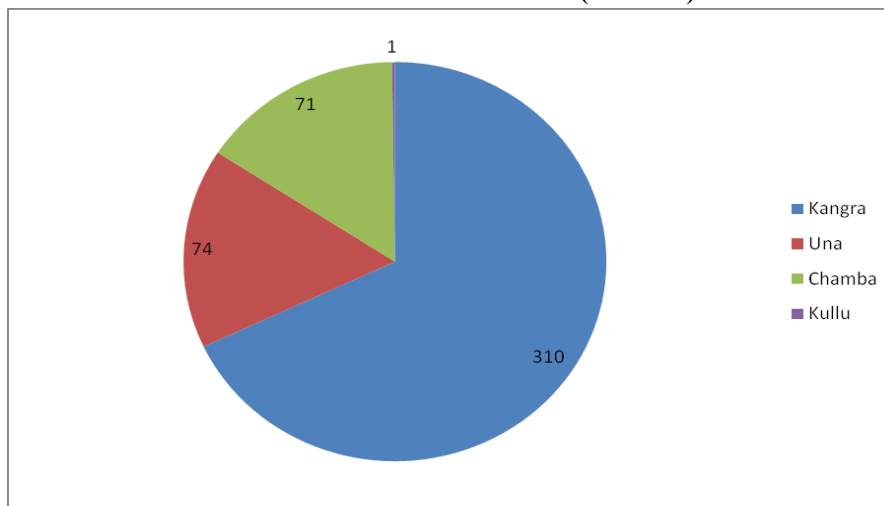
The functioning of the different specialties of the Laboratory is similar to the respective specialties of the State FSL. However, the crime case statistics of different specialties is depicted below:

### Biology & Serology Division

**CASE STATISTICS**

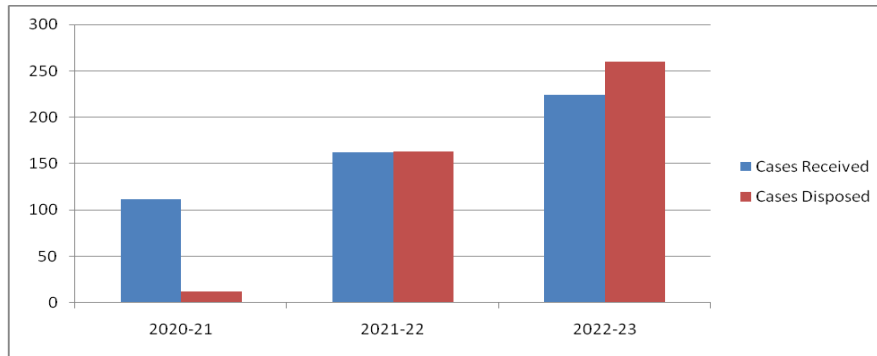


**DISTRICT WISE RECEIPT (2022-23)**

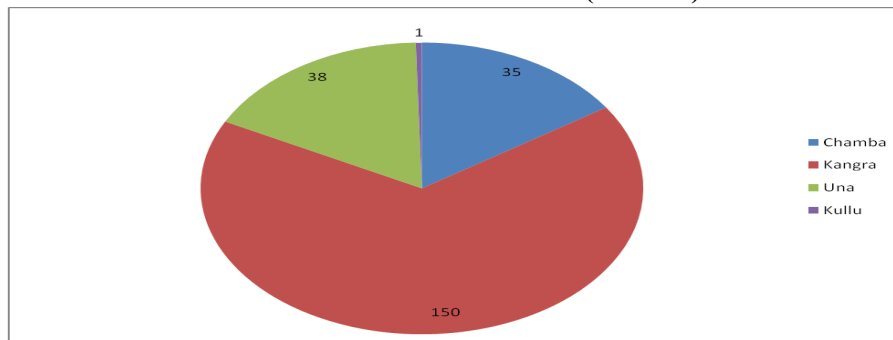


## DNA Profiling

### CASE STATISTICS



### DISTRICT WISE RECEIPT (2022-23)

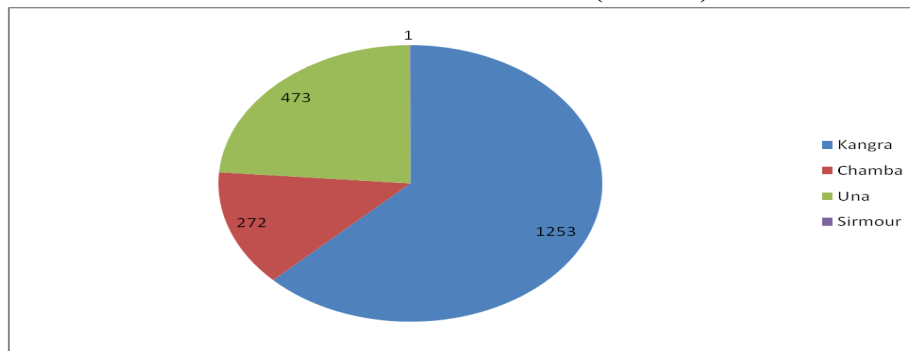


## Chemistry & Toxicology Division

### CASE STATISTICS



### DISTRICT WISE RECEIPT (2022-23)



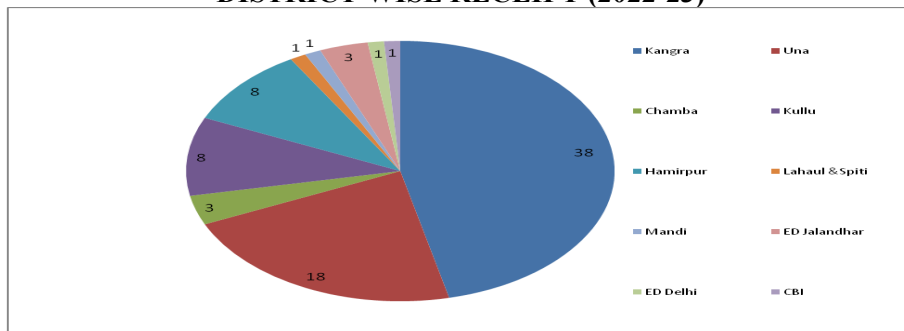


## Document & Photography Division

### CASE STATISTICS

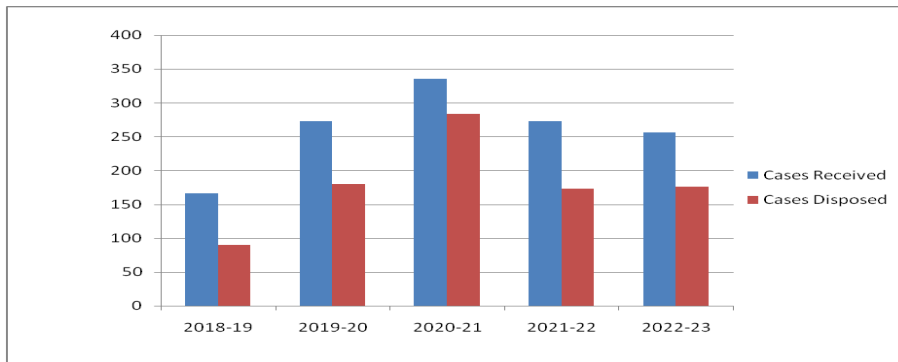


### DISTRICT WISE RECEIPT (2022-23)

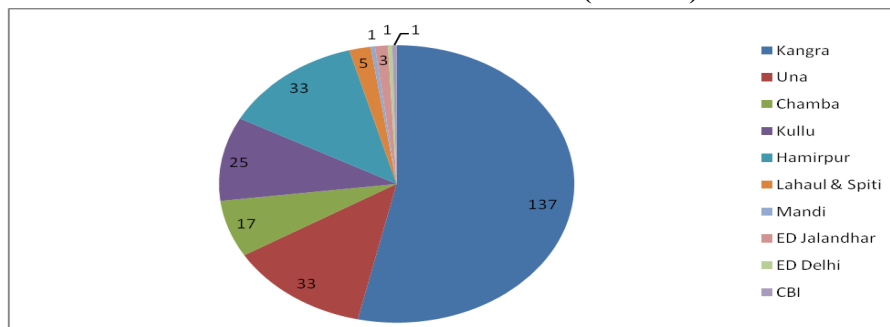


## Digital Forensics

### CASE STATISTICS



### DISTRICT WISE RECEIPT (2022-23)



## TEACHING & TRAINING

Name & Designation	No. of lectures/demonstrations
Dr. Meenakshi Mahajan, Deputy Director, NR	42
Sh. Ajay Kumar Sehgal, AD (B & S)	70
Dr. Rakesh Kumar, AD (C & T)	15
Sh. Mam Raj Sharma, SO (D & P)	27
Dr. Ashwani Bhardwaj, SO (DNA)	14
Sh. Dev Raj Kalia, SO (B & S)	18
Dr. Naresh Sharma, SO (B & S)	01
Smt. Anjali, SA (C & T)	02

## TRAININGS ATTENDED

Name	Course
Dr. Meenakshi Mahajan Deputy Director, NR	<ul style="list-style-type: none"> <li>Interpol Digital Forensic Expert Meeting at National Forensic Science University, Gandhi Nagar, Gujarat w.e.f. 8-10.11.2022.</li> </ul>
Sh. Ajay Sehgal AD (B & S)	<ul style="list-style-type: none"> <li>Seminar on POCSO Act at Sardar Vallabhbhai Patel National Police Academy, Hyderabad, Telangana w.e.f.26-27.05.2022.</li> </ul>
Dr. Rakesh Kumar AD (C & T)	<ul style="list-style-type: none"> <li>Cyber Awareness and on Fingerprints at RFSL, NR, Dharamshala on w.e.f 28-29.10.22.</li> <li>Disciplinary Proceedings at Regional Training Centre (HIPA), Dharamshala w.e.f 25-28.10.22.</li> <li>Scene of Crime Photography at RFSL, NR, Dharamshala on 2.8.2022.</li> <li>Quality Management and Internal Audit as per ISO/IEC17025:2017 at RFSL,NR, Dharamshala on 13 &amp; 25.07.2022.</li> </ul>
Dr. Ashwani Bhardwaj SO (DNA)	<ul style="list-style-type: none"> <li>Office Procedure &amp; Financial Administration at HIPA, Dharamshala w.e.f. 19-23.09.2022</li> <li>Conclave of Quality Manager of different NABL accredited laboratories at New Delhi on 09.06.2022</li> </ul>
Ankush Kumar SA (B & S)	<ul style="list-style-type: none"> <li>Noting &amp; Drafting at HIPA centre, Dharamshala w.e.f. 17-19.10.22.</li> </ul>
Anjali SA (C & T)	<ul style="list-style-type: none"> <li>Cyber Awareness and Fingerprints at RFSL, NR, Dharamshala on 28-29.10.22.</li> <li>Scene of Crime photography at RFSL, NR, Dharamshala on 02.08.2022.</li> <li>Quality Management and Internal Audit as per ISO/IEC17025:2017 at RFSL,NR,Dharamshala on 13 &amp; 25.07.2022.</li> </ul>
Purnima Chauhan SA (DNA)	<ul style="list-style-type: none"> <li>Noting and Drafting at HIPA, Dharamshala w.e.f.19-21.12.2022</li> <li>Crime Scene Photography at RFSL, NR Dharamshala on 02.08.2022</li> <li>Quality Management System at RFSL, NR Dharamshala on 13 &amp; 25.07.2022.</li> </ul>

## CONFERENCE/SEMINAR/WORKSHOP/SYMPOSIUM ATTENDED

Name	Remarks
Dr. Rakesh Kumar AD (C & T)	<ul style="list-style-type: none"> <li>• Webinar on Liquid Chromatography-The Basics at RESTEK Pure Chromatography on 24.03.2022</li> <li>• Workshop on sampling in NDPS and Excise cases at RFSL, NR, Dharamshala on 11.03.2023</li> </ul>
Dr. Ashwani Bhardwaj SO (DNA)	<ul style="list-style-type: none"> <li>• Workshop on DNA Fingerprinting organized by Department of Biotechnology, DAV College, Jalandhar on 10-11.10.2022</li> </ul>
Ms. Anjali SA (C & T)	<ul style="list-style-type: none"> <li>• Workshop on sampling in NDPS and Excise cases at RFSL, NR, Dharamshala on 11.03.2023</li> </ul>

## SEMINAR /WORKSHOP/ COURSES ORGANIZED

<ul style="list-style-type: none"> <li>• Two days National Conference on Emerging Trends in Digital Crime and Forensics in collaboration with Department of Forensic Science, HPU at HP University Shimla on 2-03.12.2022.</li> </ul>
<ul style="list-style-type: none"> <li>• One day training on Forensic Science to 10<sup>th</sup> Batch Sub Inspector (Prob.), PTC Daroh.</li> </ul>
<ul style="list-style-type: none"> <li>• Two week trainings on Forensic Science for IOs of Northern Range w.e.f 16-29.11.2022.</li> </ul>
<ul style="list-style-type: none"> <li>• One day workshop on Sampling of NDPS and Excise cases for Police, Prosecution and FSL staff posted in the northern range on 11.03.2023.</li> </ul>

## SESSION CHAIRED/RADIO TALK/TV TALK

Name & Designation	Activity
Dr. Meenakshi Mahajan Deputy Director, NR	<ul style="list-style-type: none"> <li>• Plenary talk on 16.03.23 in the National Conference on Recent Trends and Advancement in Forensic Science (RTAFS -2023) organized by Department of Forensic Science, Punjabi University Patiala w.e.f. 16-18.03.2023.</li> <li>• Co-chaired scientific session in the above said conference.</li> <li>• Invited lectures to Judicial officers of the State at Himachal Pradesh State Judicial Academy, Ghandal, District Shimla on 17.03.23.</li> <li>• Invited lectures in the Govt. College of Teacher Education at Dharamshala to trainee Associate Professors, B.Ed students, HP Veterinary Officers at Palampur, Govt degree College Matour, HIET Shahpur.</li> <li>• Plenary lectures via online and offline mode in the first International Conference on Advances in Forensic Science and in National Conference on Recent Trends and Advancements in Forensic Sciences. Also chaired scientific sessions in the said conferences.</li> </ul>

Dr. Rakesh Kumar AD (C & T)	<ul style="list-style-type: none"> <li>• Important tips for field veterinarians in handling veterolegal investigations' at CSK HPKV Palampur (H.P.) on 08.12.22, 18.01, 08.02 &amp; 28.03.23</li> <li>• Drug abuse and illicit trafficking at Rajiv Gandhi Govt. Eng. College Nagrota Bagwan, Distt. Kangra, HP on 05.07.2022.</li> </ul>
Dr. Ashwani Bhardwaj SO (DNA)	<ul style="list-style-type: none"> <li>• Invited talk in the workshop on DNA Fingerprinting organized by Department of Biotechnology, DAV College, Jalandhar on 10-11.10.2022</li> </ul>

### COURT EVIDENCES

Name	Number
Dr. Meenakshi Mahajan, Deputy Director, NR	33
Sh. Ajay Sehgal, AD (B &S)	41
Dr. Rakesh Kumar, AD (C &T)	03
Sh. Rajesh Kumar, SO (C &T)	05
Dr. Naresh Sharma, SO (B &S)	02
Sh. Mam Raj Sharma, SO (D & P)	07
Dr. Ashwani Bhardwaj, SO (DNA)	02

### SCENE OF CRIME

Name	Number
Dr. Meenakshi Mahajan, Deputy Director, NR	13
Sh. Ajay Kumar Sehgal, AD (B &S)	27
Dr. Rakesh Kumar, AD (C & T)	08
Dr. Dev Raj Kalia, SO (B & S)	07
Sh. Mam Raj Sharma, SO (D & P)	01
Sh. Rajesh Kumar, SO (C & T)	15
Dr. Ashwani Bhardwaj, SO (DNA)	06

### RESEARCH PUBLICATIONS

- **Rana A.S.**, Verma P., Mahajan M. Diatoms flora from Sach pass glacier of Himachal Pradesh: Species composition and their relationship to environmental variables. AIP Conference Proceedings.
- **Rana A.S.**, Mittal P., Mahajan M. Investigation of Diatom Communities in Highlands of Western Himalayas: Geographical Ecological Patterns. Annals of R.S.C. BISSN:1583-6258, Vol,26 Issue 1, 2022, Pages,1347-1367.
- **Rana A.S.**, Mittal P., Mahajan M. Digestion of Concentrated Water Samples of Diatoms for Environmental Purpose by a Newly Designed Method. Annals of R.S.C.B, ISSN:1583-6258, Vol.26, Issue1, 2022, Pages.1368-1378.
- **Sharma A.**, Bhardwaj A., Mahajan M., Saini S. and Sharma S. Deception in DNA Profiling. Journal of Forensic Sciences Criminal Investigation ISSN: 2476-1311, Vol 15, 2022.

## ACHIEVEMENTS

- Damaged-Device Forensics facility established. The facility is first of its kind in North India.
- The construction works of DNA & Cyber block and type-IV residential quarters got completed and inaugurated.
- The foundation stone of advance instrument lab of RFSL, NR was laid for keeping hi-tech equipments.
- Made liaison with district revenue authorities, land identified for housing Central Forensic Science University and Govt. of H.P. informed accordingly.
- The International Proficiency testing in the field of Questioned Documents consecutively for fourth year was successfully completed on the samples sent by the National Forensic Services, Republic of South Korea, which is a unique distinction.
- To ensure the continuous implementation of quality management system ISO/IEC17025:2017, NABL accreditation in the fourth and fifth year, the process completed and after virtual assessment by the team of auditors appointed by NABL, the laboratory accreditation renewed till 2023 and also newly established DNA facility brought under the scope of NABL accreditation.
- After two days virtual audit conducted by the team of experts from MEITY and STQC, GOI the digital forensic laboratory sustained the notification of Examiner of Electronic Evidence u/s 79 A of IT Act 2000 MEITY, GOI successively for third year i.e. till December, 2022.
- The proposal for establishment of mini forensic science laboratory on the request of DIG, PTC was prepared, and sent to PTC Daroh.
- The technical guidance provided to DIG West Bengal for the start of Cyber Forensic lab in the CID West Bengal Kolkata.
- Raising day celebrated and outstanding performers were awarded.
- Received award from Director, DFS, Himachal Pradesh, Shimla Hills, Junga.
- Received appreciation from Superintendent of Police Kangra at Dharamshala.
- Received Appreciation from Principal Partap Public School.
- Received certificate of appreciation from JAIN (Deemed-to-be University) School of Science, Department of Forensic Science, Bangalore.
- The proposal for creation of staff for Digital Forensic unit was prepared and submitted to DFS H.P.
- The proposal of creation of the posts of Data Entry Operator prepared and submitted to DFS.
- SOP for dealing the complaints of clients, and disposal of reminder prepared and implemented.

## **RFSL, CR, Mandi**

### **INTRODUCTION:**

The RFSL, CR, Mandi was established in the year 2008, consequent upon its creation in the first meeting of HP Forensic Science Development Board held on January 2006. The lab caters to the crime needs of five districts of Himachal Pradesh i.e. Mandi, Kullu, Lahaul-Spiti, Bilaspur, and Hamirpur. There are three specialties viz. Biological Sciences, Physical Sciences and Chemical Sciences. The laboratory examines the crime exhibits referred to the lab in eight different specialties i.e. Biology, Serology, Chemistry, Toxicology, DNA, Physics, Ballistics and Voice. The One District One Police Station Pilot project was extended to Police Station Sadar Mandi Dist. Mandi in the year 2021.

During the COVID-19 pandemic period, the lab provided RT-PCR based COVID testing facility for Kullu and Lahaul-Spiti area. The laboratory started examination of cases pertaining to DNA profiling w.e.f. August 2022.

The construction of new complex for housing DNA and Voice analysis facility is in progress and likely to be completed in the year 2024.

The laboratory has three divisions and eight specialties:

- **Biological Sciences**
  - Biology
  - Serology
  - DNA Unit
- **Chemical Sciences**
  - Chemistry
  - Toxicology
- **Physical Sciences**
  - Physics
  - Ballistics
  - Voice analysis

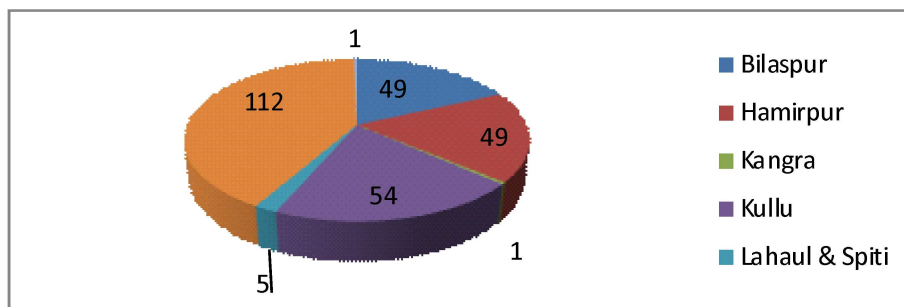
The functioning of the different specialties of the Laboratory is similar to the respective specialties of the State FSL. However, the crime case statistics of different specialties is depicted below:

## Biology & Serology Division

### CASE STATISTICS

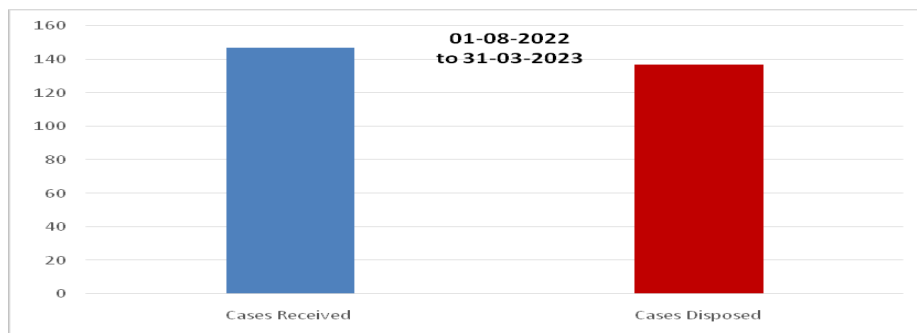


### DISTRICT WISE RECEIPT (2022-23)

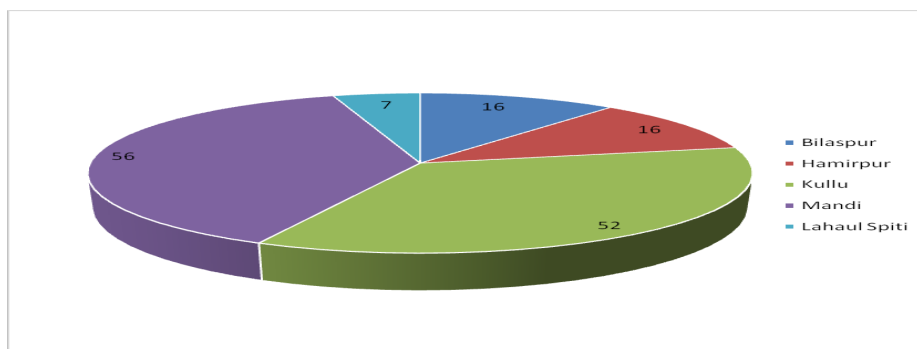


## DNA Profiling

### CASE STATISTICS



### DISTRICT WISE RECEIPT (2022-23)

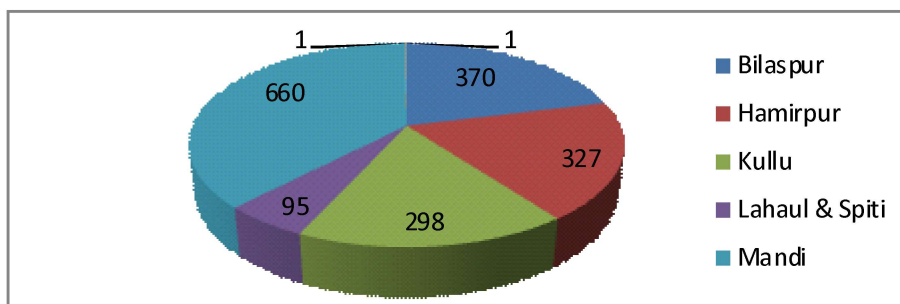


## Chemistry & Toxicology

### CASE STATISTICS



### DISTRICT WISE RECEIPT (2022-23)

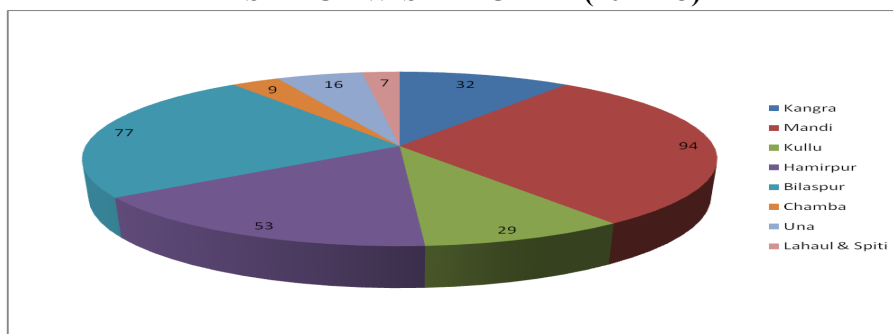


## Physics and Ballistics

### CASE STATISTICS



### DISTRICT WISE RECEIPT (2022-23)





## TEACHING & TRAINING

Name & Designation	No. of lectures/demonstrations
Dr. Rajesh Verma, Deputy Director, CR	28
Sh. Rajesh Kumar, AD (P & B)	02
Dr. NP Dubey, AD (C & T)	08
Sh. Chander Kant, SO (P & B)	02
Dr. Naresh Kumar, SO (DNA)	02
Sh. Naresh Kumar, SA ( P & B)	02

## COURSES ORGANIZED

- Two week training programme for the Investigating Officers w.e.f 11-21.07.2022.

## CONFERENCE/SEMINAR/WORKSHOP/SYMPOSIUM ATTENDED

Name	Remarks
Dr. Rajesh Verma, Deputy Director, CR	<ul style="list-style-type: none"><li>• Workshop on Forensic Voice Comparison from w.e.f. 05-07.01.2023.</li></ul>
Sh. Chander Kant, SO (P & B)	<ul style="list-style-type: none"><li>• Workshop on Forensic Voice Comparison w.e.f. 05-07.01.2023.</li><li>• Workshop on Audio, Image and Video Forensics w.e.f. 24-25.03.2023.</li></ul>
Sh. Naresh Kumar, SA (P & B)	<ul style="list-style-type: none"><li>• Workshop on Forensic Voice Comparison w.e.f. 05-07.01.2023.</li><li>• Workshop on Audio, Image and Video Forensics w.e.f. 24-25.03.2023.</li></ul>

## RESEARCH PUBLICATIONS

- **Verma R.** et al. Rapid and non-destructive analysis of lipstick on different substrates using ATR-FTIR spectroscopy and chemometrics, Journal of Forensic Sciences, <https://doi.org/10.1111/1556-4029.15223>.
- **Verma R.** et al. Discrimination and source correspondence of black gel inks using Raman spectroscopy and chemometric analysis with UMAP and PLS-DA, Chemometrics and intelligent laboratory systems. <https://doi.org/10.1016/j.chemolab.2022.104557>
- Thakur D., Dubey N.P., Singh R. A review on spike and recovery method in analytical method development and validation. Critical Reviews in Analytical Chemistry, 2022: DOI 10.1080/10408347.2022.2152275.

## COURT EVIDENCES

<b>Name &amp; Designation</b>	<b>Number</b>
Dr. Rajesh Verma, Deputy Director, CR	01
Sh. Rajesh Kumar, AD (P & B)	04
Dr. NP Dubey, AD (C & T)	20
Sh. Tek Chand, AD (B & S)	18
Dr. Naresh Kumar, SO (DNA)	01
Sh. Dev Raj, SA (B & S)	01

## SCENE OF CRIME

<b>Name</b>	<b>Number</b>
Sh .Rajesh Kumar, AD (P & B)	10
Dr. NP Dubey, AD (C & T)	07
Sh .Tek Chand, AD (B & S)	15
Sh. Hari Krishan, SO (B & S)	05
Sh. Dev Raj, SO (B & S)	06
Sh. Chander Kant, SO (P & B)	05
Sh. Laxmi Dutt, SO (C & T)	05

## **DISTRICT FORENSIC UNIT**

The Forensic Services network was expanded to District level in Himachal Pradesh in pursuance to the recommendations of NHRC (1999), the State-of-the Art Forensic Sciences: For better Criminal Justice System, and Plan for Modernization of Police Forces, Bureau of Police Research, MHA, Govt. of India (2000) created three district forensic units time to time for ensuring the instant availability of the scientists at the scene of crime to help the field Police Officers. Each District Forensic Unit is headed by the Officer of the rank of Assistant Director in accordance with the HP Police Act, 2007 amendments (2018).

The brief introduction and functioning of each unit is elucidated below:

### **District Forensic Unit (DFU) Bilaspur:**

The District Forensic Unit, Bilaspur started its functioning from State FSL Junga, in the year 2015. Thereafter, the temporary accommodation got transferred from the district administration, and converted to laboratory, subsequently operationalised from the district headquarter after granting promotion to the eligible incumbents. The process of acquiring land to have its own complex of DFU Bilaspur is in progress. DFU Bilaspur undertakes the crime scene analysis works of District Bilaspur & Hamirpur.

### **District Forensic Unit (DFU) Nurpur:**

The District Forensic Unit, Nurpur was created in the year 2018. Thereafter, the land to house DFU was searched, identified and acquired in the name of the Department in 2019-20. The officer was deployed in the year 2021 and was made functional in temporary accommodation provided in the Mini Secretariat, Nurpur. Also, another Govt. building was taken to house the laboratory in 2021. The foundation stone of the building of DFU Nurpur was laid in June, 2022 and the construction work is in progress. The jurisdiction for scientific examination of scene of crime of DFU Nurpur is Police District Nurpur & District Chamba.

### **District Forensic Unit (DFU) Baddi:**

The District Forensic Unit, Baddi was created in the year 2018. Thereafter, the land to house DFU was searched, identified and acquired in the name of the Department in 2020-21. The officer was deployed in the year 2022 and was made functional in temporary accommodation from Police Line, Baddi. The foundation stone of the building of DFU Baddi was laid in June, 2022 and the construction work is in progress. The crime scene of the Police District Baddi, SDPO Parwanoo, District Solan & SDPO Paonta Sahib of District Sirmaur are examined by DFU, Baddi.

## STATISTICS

Sr. No.	Activity	DFU Bilaspur	DFU Baddi	DFU Nurpur
1.	Scene of Crime	53	44	67
2.	Lectures	02	-	04
3.	Court Evidences	13	02	05

## CASE STATISTICS

### STATE FORENSIC SCIENCE LABORATORY (2022-23)

Name of Division	Previous Pending cases (01.4.22) (A)	Received cases (B)	Total (C=A+B)	Examined cases (31.3.23) (D)	Pending cases (31.3.23) (E=C-D)
Biology & Serology	80	423	503	461	42
DNA	147	363	510	386	124
Chem. & Toxicol.	827	2285	3112	2167	945
Physics & Ballistics	22	308	330	311	19
Doc. & Photo.	32	143	175	98	77
NDPS	17	1729	1746	1592	154
Digital Forensics	183	290	473	112	361
Voice Analysis	09	133	142	110	32
Forensic Psychology	05	22	27	22	05
<b>Total</b>	<b>1322</b>	<b>5696</b>	<b>7018</b>	<b>5259</b>	<b>1759</b>

## FINGER PRINT BUREAU

<b>Name of Division</b>	<b>Pending cases (01.04.22) (A)</b>	<b>Received cases (B)</b>	<b>Total (C=A+B)</b>	<b>Examined cases (31.03.23) (D)</b>	<b>Pending cases (01.04.20) (E=C-D)</b>
Record Section	0	156	156	156	0
Search Section	0	490	490	490	0
Document Section	0	22	22	22	0
<b>Total</b>	<b>0</b>	<b>668</b>	<b>668</b>	<b>668</b>	<b>0</b>

## REGIONAL FORENSIC SCIENCE LABORATORY, NR, DHARAMSHALA

<b>Name of Division</b>	<b>Pending cases (01.4.22) (A)</b>	<b>Received cases (B)</b>	<b>Total (C=A+B)</b>	<b>Examined cases (31.3.23) (D)</b>	<b>Pending cases (31.3.23) (E=C-D)</b>
Biology & Serology	20	455	475	425	50
DNA	99	224	323	260	63
Chemistry & Toxicology	296	1999	2295	1933	362
Documents & Photography	28	76	104	66	38
Digital Forensics	100	256	356	176	180
<b>Total</b>	<b>543</b>	<b>3010</b>	<b>3553</b>	<b>2860</b>	<b>693</b>

## REGIONAL FORENSIC SCIENCE LABORATORY, CR, MANDI

<b>Name of Division</b>	<b>Pending cases (01.4.22) (A)</b>	<b>Received cases (B)</b>	<b>Total (C=A+B)</b>	<b>Examined cases (31.3.23) (D)</b>	<b>Pending cases (31.3.23) (E=C-D)</b>
Biology & Serology	64	271	335	285	50
DNA Unit	0	147	147	137	10
Chemistry & Toxicology	279	1752	2031	1403	628
Physics & Ballistics	39	335	374	329	45
<b>Total</b>	<b>382</b>	<b>2505</b>	<b>2887</b>	<b>2154</b>	<b>733</b>



## BUDGET ALLOCATIONS 2022-23

The Government has sanctioned funds under plan and non-plan budget heads. The details are as below:

### 1. 2055-Police-116-Forensic Science-01-State Forensic Science Laboratory-SOON-V-NDP under Demand No. 7

#### Directorate of Forensics Services and its Regional FSLs

Object Code/SOE	Sanctioned Budget	State FSL, HP, Junga	RFSL, CR, Mandi	RFSL, NR, Dharamshala
01-Salary	₹ 8,28,66,000	₹ 4,42,90,000	₹ 2,18,53,000	₹ 1,67,58,000
02-Wages	₹ 7,59,000	₹ 4,95,000	₹ Nil	₹ 2,48,000
03-Travel Expenses	₹ 4,22,000	₹ 2,69,000	₹ 55,000	₹ 69,000
05-Office Expenses	₹ 30,62,000	₹ 17,30,000	₹ 7,32,000	₹ 6,00,000
06-Medical Reimb.	₹ 4,24,000	₹ 1,92,000	₹ 61,000	₹ 1,23,000
09-Advertisement & Publicity	₹ 75,000	₹ 59,000	₹ Nil	₹ Nil
10-Hospitality & Entertainment	₹ 20,000	₹ 12,000	₹ Nil	₹ 1,400
12-Professional & Special Services	₹ Nil	₹ Nil	₹ Nil	₹ Nil
15-Training	₹ 42,000	₹ 31,000	₹ Nil	₹ 10,000
20-Other Charges	₹ 12,53,000	₹ 8,20,000	₹ 2,56,000	₹ 1,77,000
21-Maintenance	₹ 10,00,000	₹ 7,96,000	₹ Nil	₹ 1,50,000
30-Motor Vehicle	₹ 6,33,000	₹ 2,25,000	₹ 67,000	₹ 2,07,000
33-Material & Supply	₹ 1,23,85,000	₹ 1,10,23,000	₹ 10,08,000	₹ 3,50,000
64-Transfer Expenses	₹ 26,000	₹ 11,000	₹ 8,000	₹ Nil
65-ReOutsourcing	₹ 1,23,000	₹ Nil	₹ Nil	₹ 1,23,000
<b>Total</b>	<b>₹ 10,30,90,000</b>	<b>₹ 5,99,53,000</b>	<b>₹ 2,40,40,000</b>	<b>₹ 1,88,16,000</b>

2. **2059-Police Works-01-Office Building-053-Maintenance & Repair-41-Maintenance of Vigilance and Forensic Laboratory Buildings-SOON-V-NDP under Demand No. 7**

Object Code/SOE	Sanctioned Budget	State FSL, HP, Junga	RFSL, CR, Mandi	RFSL, NR Dharamshala
21-Maintenance	₹ 6,14,000	₹ 5,13,000	₹ Nil	₹ 1,00,000
<b>Total</b>	<b>₹ 6,14,000</b>	<b>₹ 5,13,000</b>	<b>₹ Nil</b>	<b>₹ 1,00,000</b>

3. **2216-Housing-06-Police Housing-053-Maintenance & Repair-02-Maintenance of Residential Building of State Forensic Laboratory-SOON-V-NDP under Demand No. 7**

Object Code/SOE	Sanctioned Budget	State FSL, HP, Junga	RFSL, CR, Mandi	RFSL, NR, Dharamshala
21-Maintenance	₹ Nil	Nil	Nil	₹ Nil
<b>Total</b>	<b>₹ Nil</b>	<b>Nil</b>	<b>₹ Nil</b>	<b>₹ Nil</b>

4. **4055-Capital Outlay on Police Housing-00-211-Police Housing-05-Constriction of State Forensic Laboratory-SOON-V-SDP under Demand No. 7**

Object Code/SOE	Sanctioned Budget	State FSL, HP, Junga	RFSL, CR, Mandi	RFSL, NR Dharamshala
31-Machinery & Equipment	₹ 1,25,00,000	₹ 1,23,00,000	₹ Nil	₹ 2,00,000
37-Major Works	₹ 71,82,000	₹ 70,48,000	₹ Nil	₹ Nil
<b>Total</b>	<b>₹ 1,96,82,000</b>	<b>₹ 1,93,48,000</b>	<b>₹ Nil</b>	<b>₹ 2,00,000</b>

5. **4216-Capital Outlay on Police Housing-01-Govt. Residential Building-106-General Pool Accomodation-18-Constriction of Residential Building State Forensic Laboratory-SOON-V-SDP under Demand No. 7**

Object Code/SOE	Sanctioned Budget	State FSL, HP, Junga	RFSL, CR, Mandi	RFSL, NR, Dharamshala
37-Major Works	₹ 5,28,18,000	₹ 5,28,18,000	₹ Nil	₹ Nil
<b>Total</b>	<b>₹ 5,28,18,000</b>	<b>₹ 5,28,18,000</b>	<b>₹ Nil</b>	<b>₹ Nil</b>



6. **4055-Capital Outlay on Police Housing-00-789-Scheduled Caste Development Plan -03-  
Constriction of State Forensic Laboratory-SOON-V-SDP under Demand No. 32**

Object Code/SOE	Sanctioned Budget	State FSL, HP, Junga	RFSL, CR, Mandi	RFSL, NR, Dharamshala
31-Machienry & Equipment	₹ 1,25,00,000	₹ 1,25,00,000	₹ Nil	₹ Nil
37-Major Works	₹ 1,75,00,000	₹ Nil	₹ Nil	₹ Nil
<b>Total</b>	<b>₹ 3,00,00,000</b>	<b>₹ 1,25,00,000</b>	<b>₹ Nil</b>	<b>₹ Nil</b>

7. **2235-Social Security and Welfare-60-Other Social Security and Welfare Programmes-800-  
Other Expenditures-94-Pensioners of Directorate of Forensic Science-SOON-V-NP under  
Demand No. 19**

Object Code/SOE	Sanctioned Budget	State FSL, HP, Junga	RFSL, CR, Mandi	RFSL, NR, Dharamshala
06-Medical Reimb.	₹ 2,25,000	₹ 2,08,000	₹ Nil	₹ Nil
<b>Total</b>	<b>₹ 2,25,000</b>	<b>₹ 2,08,000</b>	<b>₹ Nil</b>	<b>₹ Nil</b>

8. **2055-Police-116-Forensic Science-02-Cyber Crime Prevention against Women and Children  
State Forensic Science Laboratory-COON-V-NDP under Demand No. 7**

Object Code/SOE	Sanctioned Budget	State FSL, HP, Junga	RFSL, CR, Mandi	RFSL, NR, Dharamshala
65-Re.Outsourcing	₹ 12,00,000	₹ 12,00,000	₹ Nil	₹ Nil
<b>Total</b>	<b>₹ 12,00,000</b>	<b>₹ 12,00,000</b>	<b>₹ Nil</b>	<b>₹ Nil</b>

**TOTAL REVENUE EARNED**

Sr. No.	Type of fee	Amount Received		
		SFSL Junga	RFSL NR, Dharamshala	RFSL CR, Mandi
1.	Internship Training Fee	₹ 1,02,600	₹ 4,39,200	-----
2.	Case Examination Fee	₹ 1,27,900	₹ 10,000	-----
	Grand Total	₹ 2,30,500	₹ 4,49,200	

## FUTURE VISION

- ◆ Creation of Digital Data Centers
- ◆ Bar-Coding of Crime Exhibits
- ◆ Digitization of Crime Records
- ◆ Database Forensics
- ◆ Strengthening of District Forensic Units
- ◆ Wild Life Forensics
- ◆ Extension of NDPS Facility to Range Laboratories

*---The blood or semen that (the perpetrator of a crime) deposits or collects – all these and more bear mute witness against him. This is evidence that does not forget... Physical evidence can not be wrong it can not perjure itself; it can not be wholly absent... Only human failure to find, study and understand it can diminish its value.*

*(Paul Kirk: Crime Investigation, 1953)*



**Residential Complex of RFSL, NR, Dharamshala**



**A Complex of RFSL, NR, Dharamshala**



**A Complex of RFSL, CR, Mandi**

