



Annual Administrative Report



DIRECTORATE OF FORENSICS SERVICES Himachal Pradesh (2017-18)

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Sh. Jai Ram Thakur, Hon'ble Chief Minister, Himachal Pradesh inaugurating the 'Forensics Exhibition' during International Shivratri Fair at Mandi on 16.2.2018.

MOTTO

‘Vigyanane Satya Anveshnnam’

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 reports and timely reports in criminal, civil cases and in matters of public interest; create 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 commission with forensics knowledge for proper investigation, and for better understanding, evaluation and appreciation of reports. HPFSL has to emerge as temple of knowledge sharing with other institutions in the development of the state-of-art forensics and 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 to emerge it as a premier institution.
- ◆ Achieve excellence in human resource development through training, by creating congenial, scientific ambiance that encourages team spirit and better 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 a professional service, enjoying public faith, exhibiting accountability, transparency and to meet modern challenges of crime. Evolve mechanism whereby forensic service is available in investigation of all heinous crime, 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.
- ◆ Public awareness by disseminating knowledge through media (print, electronic and exhibitions) 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.

“-----The Directorate of Forensic Science Himachal Pradesh is playing pivotal role in Criminal Justice Delivery System-----”

**Jai Ram Thakur
Chief Minister
Himachal Pradesh**

PREFACE

Forensics has become greatly relevant to the fast evolving crime pattern in the society and forensic interventions in crime investigation are required to be placed in police reforms at the centre of its overall policy agenda. There is a need to work in close co-ordination and in tandem to deal with emerging problems of new and newer types of crimes presented by tech-savvy criminals. From the investigation perspective, how to minimize response time, how to preserve evidence in-situ in a prescribed scientific manners from the scene of occurrence and how to ensure timely and quality reports from the forensic labs are the key issues that urgently call for strategic policy for effective furtherance of the cause of justice. The stake-holders in the criminal justice delivery system need further deepening in their understanding with the forensics in an endeavour to benefit the society at large. Also, forensics need widening its ambit, forensics has to raise its standards to meet challenges and expectations of an ever demanding society and the end users.

In accordance with the government policy of targets of each department for 100 days, the Directorate of Forensics Services has worked with success. Accordingly, Lie-Detection facility at State FSL was created and the target could be achieved. Also, 1st Five Year Perspective Plan (2014-19) envisages induction of new specialty every year. The Cell Phone analysis facility and Forensic Auditing facility, the latter being the first of its kind in the country, to detect frauds through digital evidences was created at RFSL, NR, Dharamshala by acquiring equipments and infrastructure. Work is on to have Voice analysis facility at State FSL and RFSL, CR, Mandi in near future.

Quality of the report is of paramount importance in forensics as lives and liberties of individuals are always at stake. All forensic labs in the state are in NABL (National Accreditation Board for Testing and Calibration Laboratories) accreditation mode to conform to International Standards. The RFSL, CR, Mandi was geared up and is close to file application for NABL accreditation. Also, RFSL, NR, Dharamshala has successfully participated in Hong-Kong Govt. Forensics' Lab for Proficiency Testing programme for the last two consecutive years which speak volumes of competence, expertise and knowledge the professionals have. For quality reports from private practitioners, H.P. Forensic Document and Finger Print Examiners Regulatory Authority, 2017 was notified and the Director, Forensics Services, H.P. is the Chairman of the said Regulatory Authority.

A report titled "Plan for Modernization of Forensic Set-up in Himachal Pradesh" prepared by the Bureau of Police Research & Development (MHA/GOI) is being implemented in a phased manner and the Govt. has ordered integration of Finger Print Bureau with Directorate of Forensics Services for bringing scientific acumen to the task and also to run it more efficiently and professionally. Necessary amendments required in this regard were proposed in the form of H.P. Police (Amendment) Bill, 2018. Also, for the first time, authorities to head the offices

at different levels viz. State, Range and District in the organization were described and got approved from the Govt. in the aforesaid Bill. Further, Rs. Two crore for the purchase of Automatic Finger Print Identification System (AFIS) in the Budget Speech for 2018-19 has been announced to modernize Finger Print Bureau.

The department is committed to provide quality service from the forensic labs to the end users by using advanced tools. Therefore, equipments worth Rs. One crore from Plan fund and Rs. 69.50 lacs from Modernization of Police Forces Scheme were purchased to introduce latest tools and techniques in crime investigation. Three new vehicles were sanctioned to improve mobility of forensic teams to the scenes of crime.

Workshops and Seminars were organized in all the forensic set-ups in the State for inculcating values of quality system with special emphasis on NABL quality system applicable to the forensic labs besides code of ethics in the profession. Also, training and seminars were organized for the stake-holders to keep them abreast with recent developments in the field of forensics. The Govt. has approved strengthening of Cyber Forensic Lab- cum- Training Centre under Cyber Crime Prevention against Woman and Children Scheme of MHA/GOI and allotted funds to the tune of Rs.1.48 crore.

The Directorate of Forensics Services has signed a Memorandum of Understanding (MOU) with the Indian Institute of Technology, Mandi for collaborative research. The work for a Memorandum of Understanding (MOU) with US Forensic Lab for professional joint exercises is in progress. This Directorate is also striving for membership with Asia Forensic Science Network (AFSN).

Excellence in the profession and keeping forensic personnel motivated is the core issue and a Directorate level award scheme: (a) Forensic Excellence in Lab Work, (b) Forensic Excellence in Crime Scene Management, and(c) Innovation in Crime Scene Management/Lab Work/Lab Governance was proposed to the government. The Govt. has in principle agreed to the proposal.

Awareness of forensics amongst different stake-holders and public at large is one of the pre-requisites for a successful outcome of forensic services. Accordingly, awareness through exhibitions in different International fairs of the State, Red Cross fairs and through tableau participation in State level Republic Day celebrations was organized. The theme for the exhibition was 'Forensics-in-Action' while theme for this year's tableau was 'Building Forensics: Transforming Investigation'. These were well received by the public.



(Dr. Arun Sharma)
Director Forensics Services

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DIRECTORATE OF FORENSICS SERVICES

INTRODUCTION:

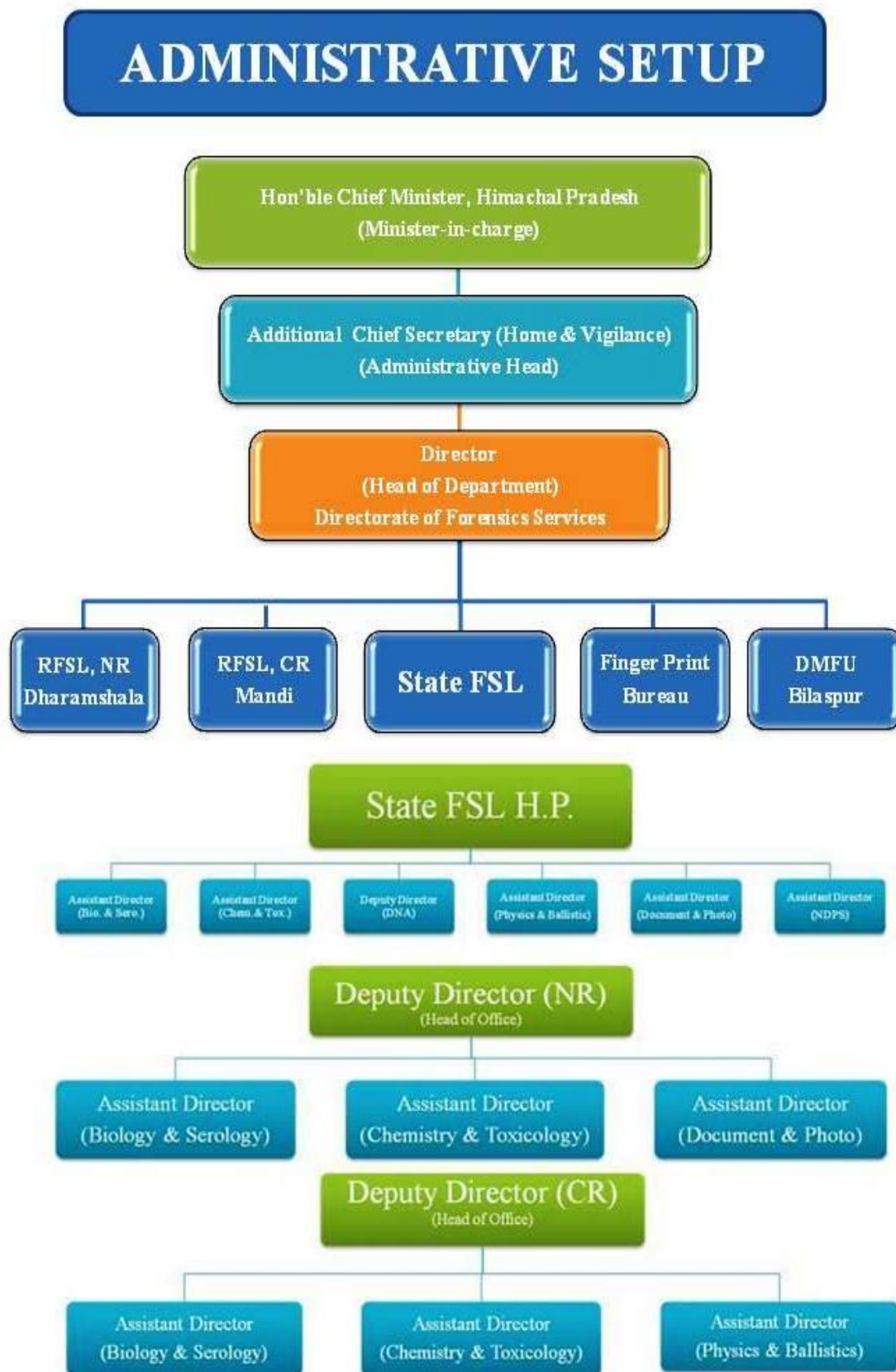
State Forensic Science Laboratory, Himachal Pradesh was created on 13-12-1988 at Police Headquarters, Shimla. State FSL primarily caters to the needs of investigating agencies viz. Police, Vigilance, CID. Also, rendering service to the judiciary, universities, boards, banks, enquiry commissions and other Government Departments. Before State FSL 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, Kolkatta. State FSL started functioning from barracks of Police complex Bharari, Shimla with two divisions encompassing four specialities namely Biology & Serology and Chemistry & Toxicology. State FSL moved



to Junga in 1996 and started functioning from the premises of Police Training School. Two more divisions encompassing four specialities viz. Documents & Photography and Physics & Ballistics were created in 1997 and became functional in the year 2000. In the year 2006, two more divisions viz. DNA and NDPS were created in State FSL, Junga. In order to ensure independent functioning of an investigating agency working on scientific principles, the State FSL was placed directly under Home & Vigilance department in the year 2005. To give a fillip to the investigation, two Regional FSLs were created at Dharamshala & Mandi in 2006 and have been housed in newly constructed complexes in 2012 and 2013. Further, for more administrative and financial autonomy, the Director, State FSL was declared Head of the Department in the year 2009 and included in the government Civil List in 2014.

A First: Disaster Victim Identification (DVI) cells were established in State FSL & RFSLs in 2014-15 as per Interpol guidelines. The new nomenclature Directorate of Forensic Science (DFS) has been 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. DNA facility at RFSL, NR Dharamshala, RFSL, CR, Mandi and First District Mobile Forensic Unit (DMFU) at Bilaspur were sanctioned in 2015-16.

A scheme was designed, approved and operationalized in 2017 for disposal of Bio-Medical Waste from the labs. Lie-Detection facility and integration of Finger Print Bureau with Directorate of Forensic Science was done in 2017. The H.P. Forensic Document Examiner and Finger Print Examiner Authority (2017) for private practitioners were approved by the government. A First: The Govt. has approved strengthening of Cyber forensic lab and training centre at State FSL & RFSL, NR, Dharamshala under Cyber Crime Prevention against Women & Children Scheme of MHA/GOI and allotted Rs. 1.48 crore. The Cell phone analysis facility and Forensic Auditing facility, the latter being first of its kind in the country, to detect frauds through digital evidences was created at RFSL, NR, Dharamshala by acquiring equipments and infrastructure in 2017-18. The Directorate of Forensic Science has signed MOU with IIT, Mandi and is striving for membership with Asia Forensic Sciences Network (AFSN) and MOU with US forensic lab for joint exercises is in progress. Also, the State FSL and RFSLs are the approved centres for crime case analysis of Central Investigation Agencies viz. National Investigation Agency (NIA) and Central Bureau of Investigation (CBI).



MANDATE

- ◆ ANALYSIS OF CRIME EXHIBITS/CLUES IN THE LAB
- ◆ SCENE OF CRIME EXAMINATION & RECONSTRUCTION
- ◆ FORENSIC INTELLIGENCE/LEAD
(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



Seminar on "Forensic Documents & Emerging Challenges" at RFSL, NR, Dharamshala

DUTIES AND RESPONSIBILITIES

Director

- Examination, evaluation, comparison of clue materials and to submit scientific reports.
- To testify or give evidence before Judicial/Semi-judicial/Inquiry authority as and when required.
- Examination of scene of crime and submission of reports.
- Research in Forensic Science and related fields.
- Teaching and training of IOs/NGOs of Police Prosecution and Judiciary in Forensic Science.
- Any other scientific and Administrative work assigned by the, senior officers /Government.
- Besides above duties, he is the head of the department as well as Controlling Officer and has to perform duties related to it. He has to manage all the scientific matters for the overall scientific development of the Institution for the incorporation of new technology.

Deputy Director

- Examination, evaluation, comparison of clue materials and to submit scientific reports.
- To testify or give evidence before Judicial/Semi-judicial/Inquiry authority as and when required.
- Examination of scene of crime and submission of reports.
- Research in Forensic Science and related fields.
- Teaching and training of personnel's in Forensic Science and related fields.
- He/she will be responsible for efficient working of the division(s) and expeditious disposal of work/cases pertaining to the division(s) by giving quality reports.
- He/she will render all assistance to the D/FSL in updating and introducing new technologies in the division(s).
- Any other work related to scientific or administrative nature assigned to him by the Director FSL/Government.
- Besides above duties, he is required to assist the Director, FSL in the matters of scientific and administrative nature. He is the supervisory officer and Divisional in-charge of at least two Divisions and has to guide the Scientists working under him. Management of Scientific and Administrative work has also to be looked after by him under the guidance of Director, State FSL, HP.

Assistant Director

- Examination, evaluation, comparison of clue materials and to submit scientific reports.
- To testify or give evidence before Judicial/Semi-judicial/Inquiry authority as and when required.
- Examination of scene of crime and submission of reports.
- Research in Forensic Science and related fields.
- Teaching and training of personals in Forensic Science and related fields.
- He/she will be responsible for efficient working of the division(s) and expeditious disposal of work/cases pertaining to the division(s) by giving quality reports.
- He/she will render all assistance to the D/FSL in updating and introducing new technologies in the division.
- Any other work assigned by senior officers/Govt.
- He/she is Divisional in-charge of his/her division. He also supervises and guide the

scientific and technical staff of his division concerned in Administrative and scientific matters.

Scientific Officer

- Examination, evaluation, comparison of clue materials and to submit scientific reports.
- To testify or give evidence before Judicial/Semi-judicial/Inquiry authority as and when required.
- Examination of scene of crime and submission of reports.
- Research in Forensic Science and related fields.
- Teaching and training of personals in Forensic Science and related fields.
- He/she will be responsible for efficient working of the division(s) and expeditious disposal of work/cases pertaining to the division(s) by giving quality reports.
- He/she will render all assistance to the D/FSL in updating and introducing new technologies in the division.
- Any other work assigned by senior officers/Govt.
- He/she is also in-charge scientific unit of staff working under him /her and also has to guide and supervisor the Unit.

Scientific Assistant

- Examination, evaluation, comparison of clue materials and to submit scientific reports.
- To assist the officers/Experts in examination of scene of crime and the exhibits in the laboratory.
- Assistance in research in Forensic Science and related fields under the supervision of experts.
- Assistance in practical demonstration during teaching and training.
- Any other work assigned by the senior officers.
- He/she will also be assist in keeping the laboratory and equipments in order for scientific examination and shall help in expeditious disposal of work/cases pertaining to the division and also to help in the preparation of quality reports.
- He/she will also render all assistance to the senior officers in the division in updating and introducing new technology in the division.

Laboratory Assistant

- He/she is required to assist SA/SO/AD/DD and Director in examination evaluation and comparison of clue material especially for systematic arranging of exhibits and reagents.
- To maintain register of the division concerned for making entries of the exhibits/cases received in the division. He/she also has to maintain all the records of chemical, glassware and equipments and to prepare date whenever required.
- To perform another duties assigned by senior officers.

Laboratory Attendant

- To clean the laboratory tables / apparatus sinks, shelves, furniture and other items in the division.
- To hold and carry exhibits, glass-apparatus, reagents from where required.
- To cut open /seal the exhibits of the Division in the presence of experts and to carry them from one Division to another or to Crime branch.
- To perform any other duties assigned by senior officers for the cleanliness of the laboratory as a whole and for carrying materials and other items for the functioning of the laboratory.

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.	Chairman
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 the 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 the 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

First time, Five Years Perspective Plan 2014-2019 was approved in 8th meeting of HP Forensic Science Development Board held on 22.7.14. The major targets of the years: 2014-2015, 2015-2016, 2016-2017 and 2017-2018 of the approved perspective plan have been achieved and have even exceeded the planned targets e.g. first time the department was included in business of the Govt. of Himachal Pradesh (Allocation) Rule 1971 and the HP Forensic Document and Finger Print Examiner Regulatory Authority, 2017 for private practitioner and integration of finger print bureau was approved



Sh. Prabodh Sexena, IAS, Pr. Secy. (Home & Vigilance) at DFS/HP

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 delegates 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 | Chairman |
| 2. | Commandant/Asstt. Commandant
Police Battalion at Junga. | Member |
| 3. | Assistant Director/Scientific Officer
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

STATE FORENSIC SCIENCE LABORATORY

INTRODUCTION:

Headquarters of Himachal Pradesh Forensics Services and State FSL are located at Junga. 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. 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 received cases for examination from the districts of southern range viz. Shimla, Kinnaur, Solan and Sirmour. For DNA analysis and NDPS cases, the State FSL caters to the needs of all thirteen police 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 mailing list of Royal Canadian Mount Police Journal (RCMP) and FBI bulletin (U.S.A) since 2013.

The State FSL is in international standards mode and is striving for NABL accreditation from NABL (National Accreditation Board for Testing and Calibration Laboratories) accreditation based on International Organization of Standardization (ISO/IEC 17025: 2005) which is third party recognition about competence of the experts and testing facilities in the lab. A Pilot Project "One District one Police Station" (OPDS), first of its kind in the country, has been launched by the Hon'ble Chief Minister, Himachal Pradesh, for PS Sadar Shimla. With a new initiative, on the eve of 2nd Raising Day celebrations, two officers were felicitated in the field of (a) Forensic Excellence in Lab Work, (b) Forensic Excellence in Crime Scene Management. Awareness through exhibitions in different International fairs of the State and through Tableau participation in State level Republic Day celebrations was organized by State FSL every year.

The construction work of Forensics Headquarters complex-cum-Super-Speciality block with an estimated cost of Rs.11 crores has been started and is in full swing. There will be multi-storey complex with lift facility and car parking and will house new specialities, conference hall etc. A First: Expert testimony through Video Conferencing facility was established at Forensics Headquarters and inaugurated by Hon'ble Chief Minister, HP which is being utilized to save man hours in transit as well as state exchequer on TA/DA. The State FSL is being modernised with advanced instrumentation.

WORKING:

There are eight scientific Divisions. One new division* was sanctioned and Finger Print Bureau was integrated with the DFS/HP. Acquisition of manpower and equipment is in progress for new specialities.

- ◆ Biology & Serology Division.
- ◆ Chemistry & Toxicology Division.
- ◆ Physics & Ballistics Division.
- ◆ Documents and Photo Division.
- ◆ NDPS Division
- ◆ DNA Division
- ◆ Forensic Psychology*
- ◆ Finger Print Bureau
- ◆ Voice Analysis Division
- ◆ Digital Forensics Division



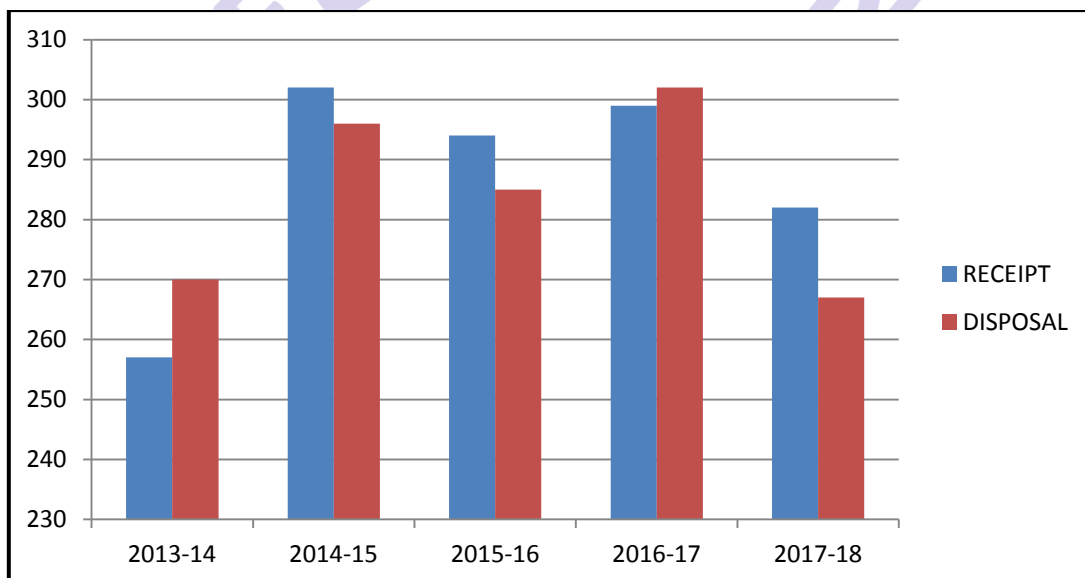
Dr. A. K. Ganjoo, CFS, DFSS, MHA/GOI and Dr. S.K. Jain, Director, CFSL, Chandigarh at Directorate of Forensics Services Himachal Pradesh.

BIOLOGY & SEROLOGY DIVISION

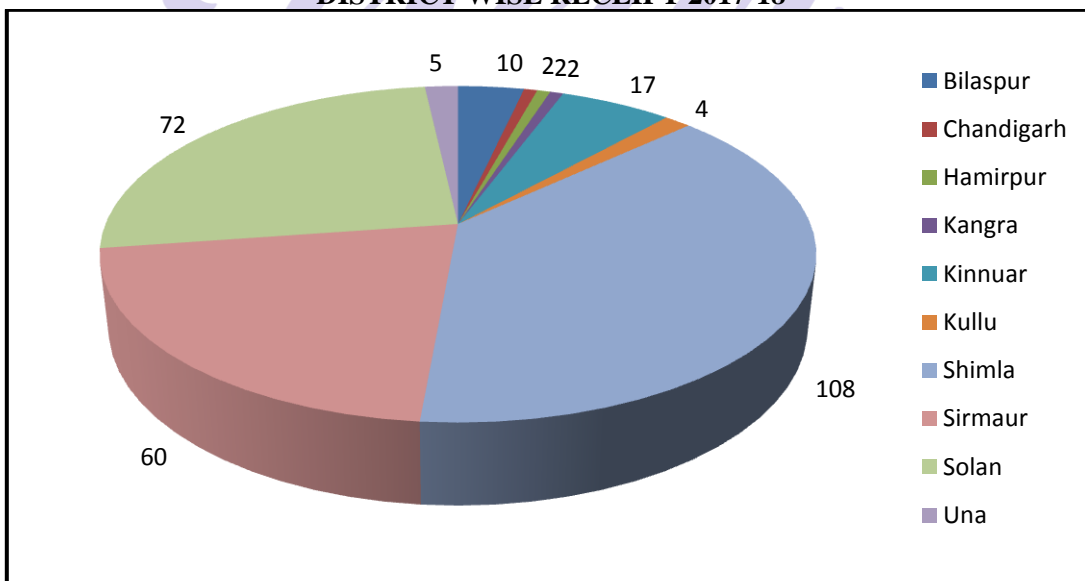
Evidences of biological origin play a vital role in cases of homicide, suicide or accidental death, sexual assaults and in cases of wildlife (flora and fauna) besides ante-mortem or postmortem drowning. The clues are examined for the purpose of identification and comparison with control samples. Types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

- ◆ Blood, semen and saliva
- ◆ Vomit, faecal matter
- ◆ Tissues and skin in partially burnt bodies/dowry deaths/hanging cases
- ◆ Bone (animal and human) age, sex in respect of human bones
- ◆ Hair (animal & human), fibre, feather
- ◆ Maggots (Forensic Indicators)
- ◆ Wood and plant identification
- ◆ Wildlife Cases (examination of animal skin, blood, flesh)
- ◆ Diatom from bones

CASE STATISTICS



DISTRICT WISE RECEIPT 2017-18

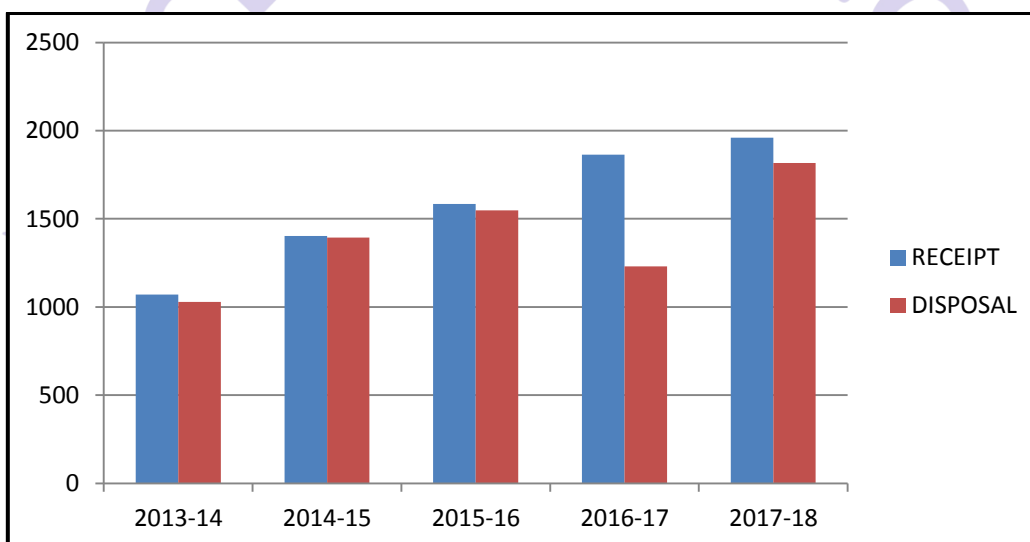


CHEMISTRY & TOXICOLOGY DIVISION

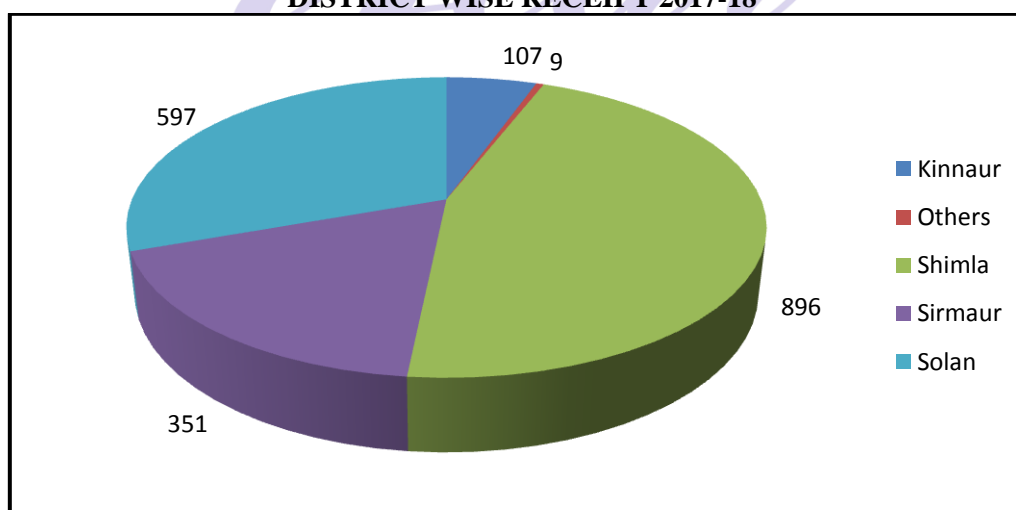
Himachal Pradesh is known as fruit bowl and insecticides and pesticides are widely used. That makes the poisons' accessibility easy to the common man and cases of deaths due to poisons are more. In addition more than one thousand and two hundred deaths are reported on the roads per annum due to road accidents in Himachal Pradesh thereby contributing towards more cases of viscera analysis workload. The division undertakes examination of clue materials such as:

- 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 2017-18

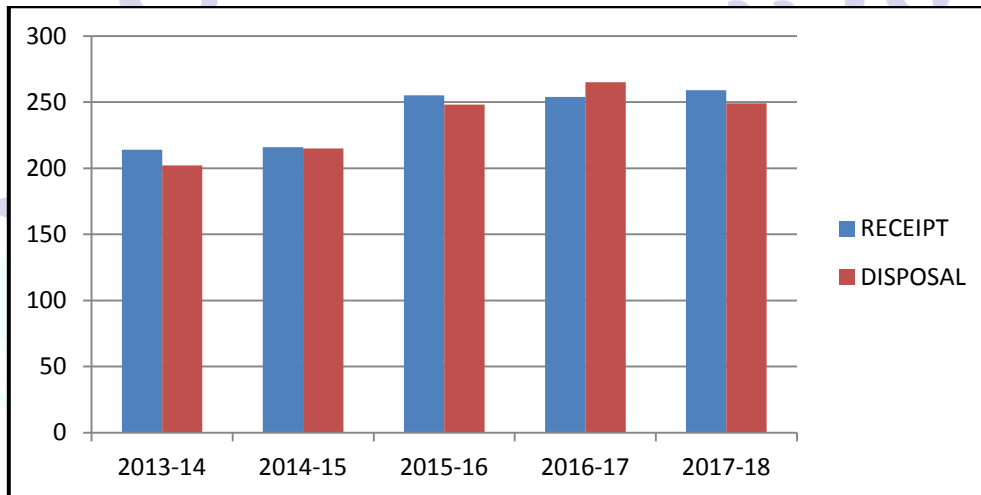


PHYSICS & BALLISTICS DIVISION

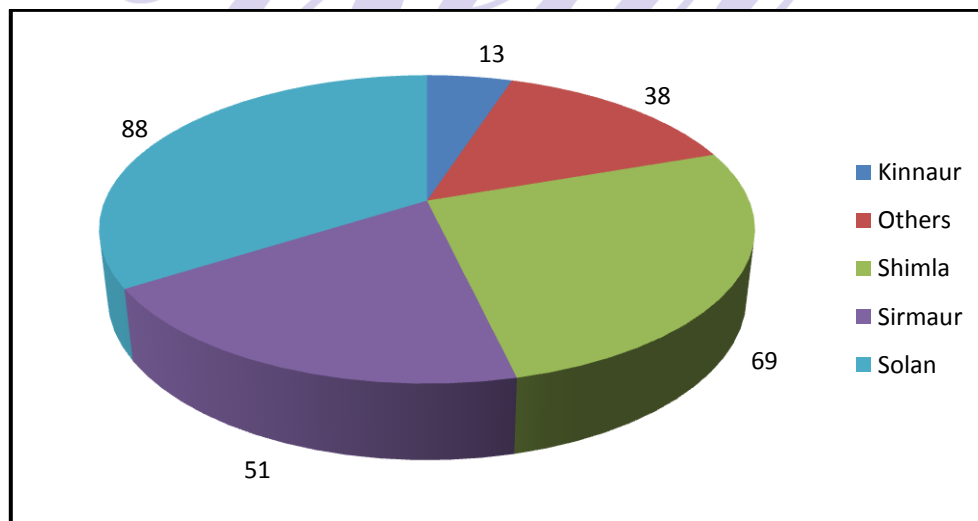
The founder Director examined and reported physics & ballistics cases till September 1993 when he demitted the office. Examination work stopped and commenced again when new staff was posted in 1999. The physics & ballistics division undertakes examination of clue materials such as:

- Tool marks & telephone cables
- Footprints, shoe prints & tyre marks, skid marks
- Paint and glass
- Building materials & Bitumen
- Paper & fiber
- Metal adulteration in jewellery
- Soil, sand & grit
- Shining globule formation in electric short circuiting
- Resuscitation of number of stolen vehicle chassis and firearms
- Firearms, ammunition & gunshot residues etc
- Facial comparison
- Voice Analysis

CASE STATISTICS



DISTRICT WISE RECEIPT 2017-18



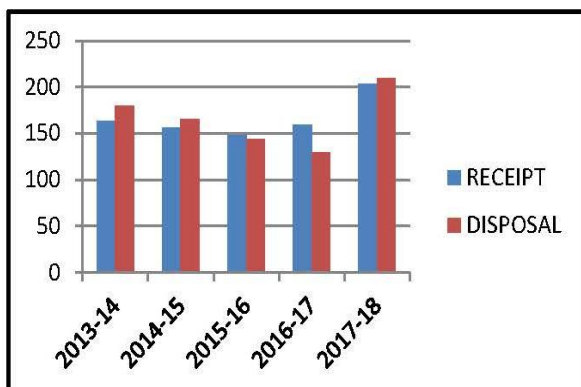
DOCUMENT & PHOTOGRAPHY DIVISION

The founder Director examined and reported cases of handwritings, frauds & forgery, alteration, obliteration, additions, substitutions etc., till September 1993. Examination work stopped and commenced again when new staff was posted in the year 2000. In 2010, with new initiative, cases pertaining to computer forensics which include analysis of hard disks, pen drives, memory cards, floppies, compact disks, digital video recorder, etc. commenced. In 2013, cell phone forensics became operational. The division undertakes examination of:

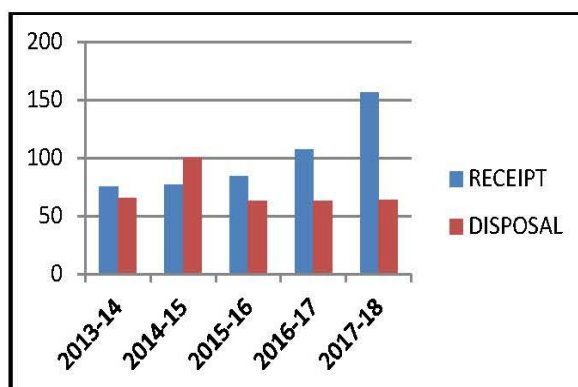
- Handwritings, signatures, type writings, computer print outs & printed materials
- Additions, Alteration, obliteration, substitutions, erasures
- Stamps & seals, counterfeit currency
- Security documents, currency, passports, credit & debit cards
- Burnt & soiled documents, paper and ink analysis
- Scene of crime photography
- Inter and intra division photography

CASE STATISTICS

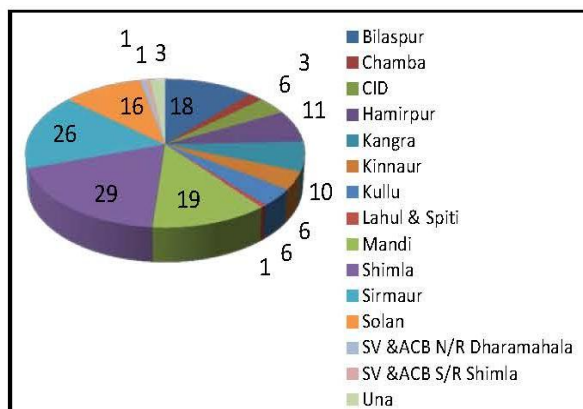
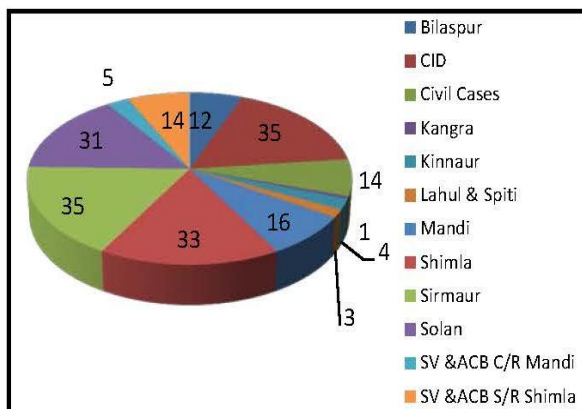
Document cases



Cyber cases



DISTRICT WISE RECEIPT 2017-18

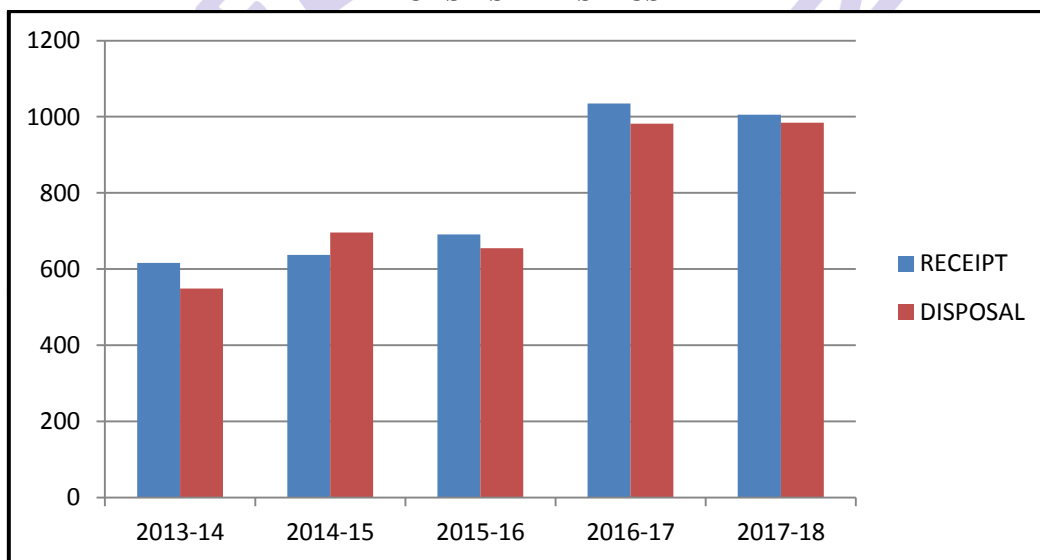


NDPS DIVISION

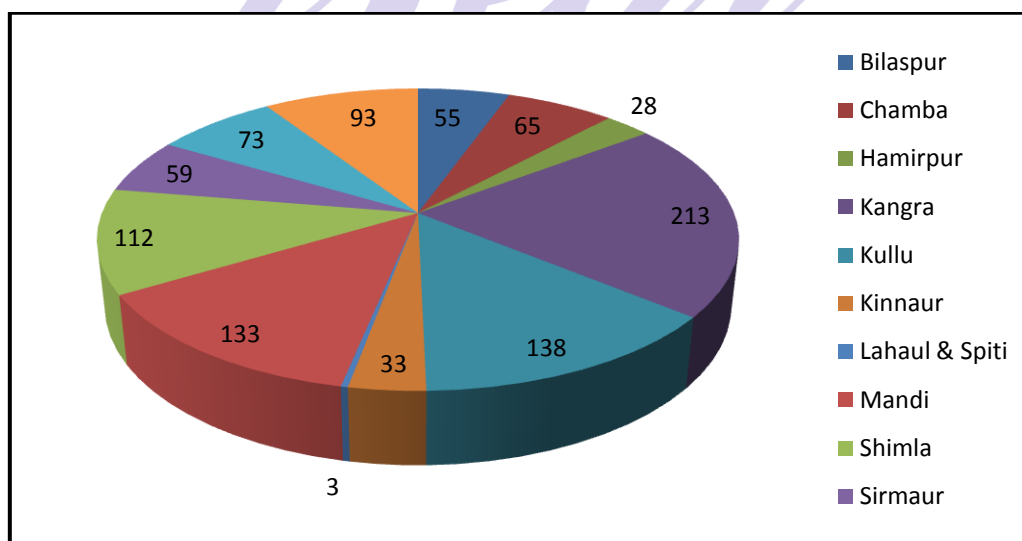
With the rise in the number of Narcotic drugs and psychotropic substances cases in Himachal Pradesh due to influx of foreign nationals for world famous MALANA cream (hashish derived from the flower of female cannabis ‘Bhang’ plant), the Government of Himachal Pradesh established dedicated NDPS division in 2006. There was substantial increase in the receipt of cases due to special drive launched against drug abuse by the investigation agencies. This division noted an increase in the amount of high potency drugs such as LSD, amphetamine (MDA) & methamphetamine (MDMA) submitted during the period. The division undertakes examination of the followings:

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

CASE STATISTICS



DISTRICT WISE RECEIPT 2017-18



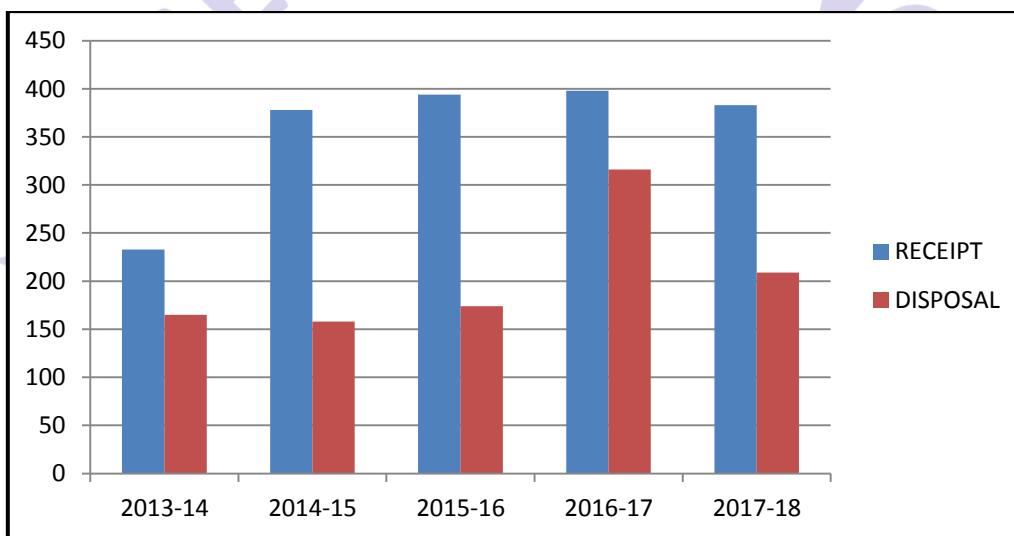
DNA DIVISION

With the rise in offences against body like sexual assaults, homicides etc, there was a need to provide better linking evidence. The government of Himachal Pradesh created dedicated DNA division in the year 2006. With the new initiative, the technique was introduced in Biology & Serology division by developing infrastructure and made functional in 2008. DNA profiling is done in cases of disputed parentage, homicide, sexual assaults, burglary & in identity problems. The division undertakes DNA profiling of biological clues such as:

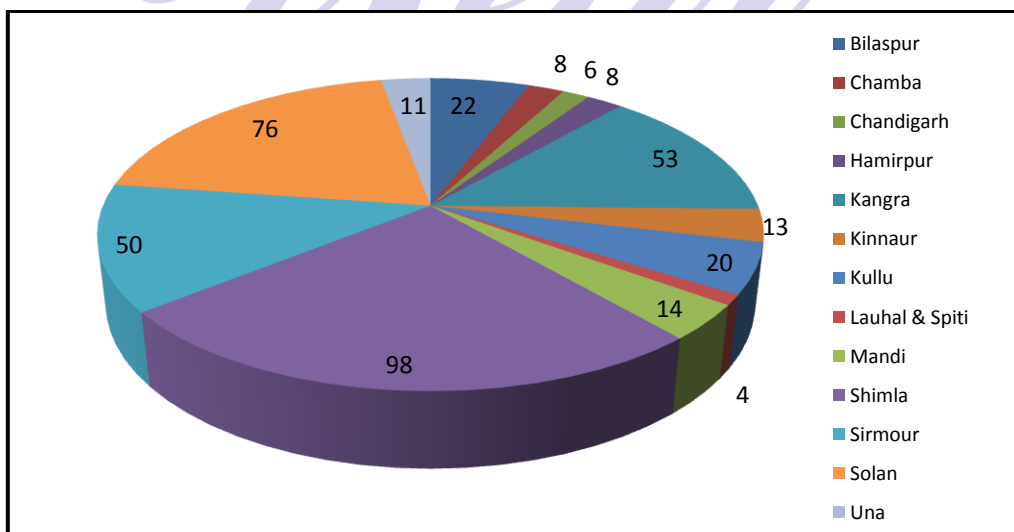
- Human body fluids (blood, semen, saliva, urine etc.)
- Human body tissues (hair, skin, flesh & bone)
- Nail bed materials
- Teeth
- Vomit
- Foetal remains & retained product of conception
- Cigarette butts



CASE STATISTICS



DISTRICT WISE RECEIPT 2017-18



TEACHING & TRAINING

Name & Designation	No. of lectures / demonstrations
Dr. Arun Sharma, Director	60
Dr. G. C. Thakur, Assistant Director	16
Sh. Visheshwar Sharma, Assistant Director	21
Dr. Vivek Sahajpal, Assistant Director	12
Sh. Kapil Shrama, Assistant Director	11
Dr. Sanjeev Kumar, Assistant Director	10
Sh. Chaman Sharma, Scientific Officer	12
Sh. Nasib Singh, Scientific Officer	30
Dr. Neelam Kaushik, Scientific Officer	13
Sh. H.K. Bhardwaj, Scientific Assistant	4
Sh. Jaswant Singh, Scientific Assistant	13
Sh. Madan Gopal, Laboratory Assistant	1
Sh. Satya Prakash, Laboratory Assistant	13
Sh. Naresh Kumar, Laboratory Assistant	13

TRAINING ATTENDED

Training is a key feature rather essential aspect of Human Resource Management. Training interventions often aim to affect the attitude as a way of honing up the skill and behavior. Accordingly, officers and officials are deputed from time to time to undergo training in different institutions

Name	Course
Dr. G.C. Thakur	<ul style="list-style-type: none"> • Course on RTI Act, 2005 & HP Service Guarantee Act, 2011 from 5.4.2017 to 7.4.2017 at HIPA, Fair Lawns, Shimla. • Training on Working Procedure of NABL Accreditation and Internal Audit etc. on 16-17.8.2017 at CFSL Chandigarh. • Course on Individual Identification Techniques from 27.11.2017 to 30.11.2017 at NICFS, Delhi.
Sh. Visheshwar Sharma	<ul style="list-style-type: none"> • Training on Working Procedure of NABL Accreditation and Internal Audit etc. on 16-17.8.2017 at CFSL Chandigarh. • Course on Cyber Forensic & Admissibility of Digital Evidence from 23.10.2017 to 27.10.2017 at CFSL, DFFS, Hyderabad.
Dr. Vivek Sahajpal	<ul style="list-style-type: none"> • HID Casework workflow training on Bone Samples from 24.4.2017 to 27.4.2017 at Thermo Fisher Scientific, Gurgaon.
Sh. Kapil Sharma	<ul style="list-style-type: none"> • Training on Working Procedure of NABL Accreditation and Internal Audit etc. on 16-17-8.2018 at CFSL Chandigarh.
Dr. Sanjeev Kumar	<ul style="list-style-type: none"> • Course on Fire Explosive and Investigation from 18.12.2017 to 22.12.2017 at NICFS, Delhi.
Dr. Neelam Kaushik	<ul style="list-style-type: none"> • Course on “Disciplinary Proceeding/ Conduct Rules/ Departmental Enquiry” from 20.7.2017 to 22.7.2017 at HIPA, Fair Lawns, Shimla.
Dr. Shivani Vats	<ul style="list-style-type: none"> • Course on “DNA Technology” from 03.10.2017 to 1.11.2017 at SFSL, Madhuban, Haryana.

CONFERENCE/SEMINAR/WORKSHOP/SYMPOSIUM ATTENDED

Name	Remarks
Dr. Arun Sharma	<ul style="list-style-type: none"> • Workshop on DNA from Bone Sample on 24-27.4.2017 at Thermo Fisher Scientific, Gurgaon. • Workshop on Accreditation of Forensic Laboratory on 30-31.5.2017 at New Delhi • Seminar on Emerging Trends in Crime-Challenges for Forensic Science on 17-18.8.2017 at New Delhi. • International Conference on Forensic Science & Cyber Security on 5-6.10.2017 at IFS, Gujarat, Gandhinagar. • Workshop on Innovation in Forensic Workflow on 26-27.10.2017 at Thermo Fisher Scientific, Gurgaon. • International Conference on Advance in Forensic DNA Technology on 22-24.2.2018 at Dr. APJ, Abdul Kalam, IFSC, Bundelkhand University, Jhansi (UP) • All India Directors Conference and All India Forensic Science Conference at Ahmadabad, Gujrat in 10-12.2.2018. • 46th All India Police Science Congress, 2018 on 22-23.3.2018 at Shimla, Himachal Pradesh.
Sh. Visheshwar Sharma	<ul style="list-style-type: none"> • Workshop on NABL Accreditation on 12-16.9.2018 at SFSL, HP. • Seminar on Forensic Documents & Emerging Challenges on 30.3.2018 at RFSL, NR, Dharamshala.
Dr. Vivek Sahajpal	<ul style="list-style-type: none"> • Workshop on HID Casework Workflow Training of Bone Samples, 24-27th April to 2017 at Thermo Fisher Scientific, Gurugram. • Workshop on Human Identification solutions (HIDS-2017), 26-27.10.2017 at Thermo Fisher Scientific, Gurugram.
Sh. Kapil Sharma	<ul style="list-style-type: none"> • International Conference on Forensic Science & Cyber Security on 5-6.10.2017 at IFS, Gujarat, Gandhinagar.
Dr. Sanjeev Kumar	<ul style="list-style-type: none"> • International Conference on Forensic Science & Cyber Security on 5-6.10.2017 at IFS, Gujarat, Gandhinagar. • Workshop on “Documentation for NABL accreditation” from. 13-16.9. 2017 at DFS, Junga (Chief Guest: Dr. KPS Kartha, Director, CFSL, Hydrabad). • State level sensitization and orientation workshop on Government e-Market Place (GeM)” organized by Dept. of Industries, Govt. of HP on 1.12. 2017 at HIPA, Shimla. • One day workshop and demonstration on “First-aid in Fire Fighting” organized by Department of fire Services, HP Govt. at DFS Junga on 8.12.2017 • One day workshop on “TCS/TDS provisions” at Shimla on 14.12.2017 • Two day workshop on “National Conclave on SDGs” organized by NFI and NITI at Indian Habitat Center, New Delhi on 19-20.12 2017.
Sh. Jaswant Singh	<ul style="list-style-type: none"> • Seminar on Forensic Documents & Emerging Challenges on 30.3.2018 at RFSL, NR, Dharamshala.

WORKSHOP/ SEMINAR/ MEETING ORGANIZED

Sr. No.	Name of the Event
1.	Workshop/Training on Quality Assurance for NABL Accreditation by Dr. K.P.S. Kartha, Director, CFSL, Hyderabad w.e.f 13- 16.9.2017.
2.	Workshop on Audio Forensics on the occasion of 2 nd raising Day Celebrations of Directorate of Forensics Services, Himachal Pradesh on 13.12.2017
3.	Workshop/Training on Fire Fighting Equipments by Department of Fire Services, Shimla on 7.12.2017.
4.	Workshop/Training on First Aid by Medical Officer, Civil Hospital, Junga on 21.2.2018

COURSES ORGANIZED

With the aim to enhance use of forensics in police investigation, also mandated 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 has become imperative to impart training to the officers of Judiciary and the prosecution department for better understanding, evaluation and appreciation of forensic reports in dispensation of justice.

Course	Number
• Five days induction training programme for Newly Appointed Civil Judge (Jr. Division) on 17- 21.7.2017	1
• Five days induction training programme for Newly Appointed Civil Judge (Addl. Distt. Session Judge) on 9-13.10.2017	1
• Course on Forensic Science for (IOs) w.e.f. 15-27.1.2018	14
• Training on Forensic Science for HPS, Probationer on 30.6- 6.7.2017	4



Hon'ble Mr. Justice VK Sharma, Chairman HP State Administrative Tribunal, during 2nd Raising Day Celebrations of DFS/HP on 13.12.17.



Director Forensic Services with faculty and trainees investigating officers during the course on "Orientation to Forensic Science" at DFS/HP on 15-27.1.2018.

SESSION CHAIRED/RADIO TALK/TV TALK/ INVITED TALK

Name & Designation	Activity
<p>Dr. Arun Sharma Director</p>	<ul style="list-style-type: none"> Delivered a keynote address in the National Seminar on “Current Scenario in Investigative Techniques” at MDU Rohtak on 7.9.2017. Chaired a session during the International Conference on Forensic Science and Cyber Security at GFSU, Gujrat w.e.f 5-6.10.2017. Chaired a session during the International Conference on Advances in Forensic DNA Technology at Bundelkhand University, Jhansi w.e.f 22-24.2.2018. Key note speaker in the Seminar on “Forensic Document & Emerging Challenges” at RFSL, NR, Dharamshala on 30.3.2018.
<p>Dr. Vivek Sahajpal Assistant Director (DNA)</p>	<ul style="list-style-type: none"> Delivered lecture on “Dealing Wildlife Crime Case in India: The Forensic Perspective”, MDU, Rohtak on 21.11.2017. Delivered invited lecture on DNA barcoding in the workshop on “DNA Barcoding” at ZSI, Kolkata on 5-8.3. 2018.



Dr. Arun Sharma, Director Forensics Services Himachal Pradesh with Dr. B.K. Punia, Vice Chancellor, MDU, Rohtak and esteemed faculty. Key note speaker during the inaugural ceremony of National Seminar on “Current Scenario in Investigative Techniques” at MDU Rohtak on 7-9-2017

INTERNSHIP

Analysis of clues in the forensic lab has direct bearing on lives and liberties of people. Accordingly, technically qualified manpower is essential to undertake the task. With this motive, students from different universities in different disciplines were imparted training to generate professionals.

Sr. No	Institute/University	Date	No. of Students
1.	Banaras Hindi University, Varanasi. (UP)	17.4.17 to 15.5.17	2
2.	MDU, Rohtak (Haryana)	22.5.17 to 25.5.17	1
3.	Chandigarh, University, Mohali	1.6.17 to 30.6.17	7
4.	Chandigarh, University Mohali	5.6.17 to 30.6.17	2
5.	Panjab University, Chandigarh	1.6.17 to 30.6.17	2
6.	M.D.U., Lakshmangarh Sikar, (Rajasthan)	3.7.17 to 6.7.17	3
7.	Lovely Professional University, Phagwara (Punjab)	20.6.17 to 12.7.17	1
8.	Deptt. of Forensic Science, Govt. of Holkar Science College Indore (M.P.)	1.7.17 to 31.7.17	5
9.	Shoolini University, Solan (H.P.)	10.7.17 to 29.7.17	2
10.	Amity University Noida (UP)	6.6.17 to 6.9.17	1
11.	Chandigarh University, Mohali	13.12.17 to 27.12.17	16
12.	LNJN, NICFS, Delhi.	20.12.17 to 3.1.18	1
13.	LPU, Phagwara (Panjab)	26.12.17 to 1.1.18	2
14.	Sh. Vaishanav Vidyapith Vishwavidyalaya Institute of Forensic Science Indore (MP)	14.12.17 to 12.1.18	11
15.	Shoolini University, Solan (H.P.)	1.1.18 to 24.1.18	1
16.	Dr. APJ Abdul Kalam, Institute of Forensic Science & Criminology, Bundelkhand University, Jhansi (UP)	14.3.18 to 17.3.18 & 20.3.18 to 23.3.18	31



Faculty and M. Sc. Forensic Science students of Chandigarh University, Mohali at DFS/HP.

VISITS

Title	Number
One day visit of Students from Lovely Professional University Phagwara Punjab on 7.4.2017	37
One day visit of students from Department of Forensic Science, SHIATS, Allahabad, U.P. on 23.5.2017	22
One day visit of Medical Officers form Pari Mahal, Shimla, H.P. on 19.6.2017	21
One day visit of Medical Officer form Pari Mahal, Shimla, H.P. on 19.9.2017	17
One day visit of students from Department of Basic and Applied Sciences, School of Engineering, G.D. Goenka University, Gugaon, Haryana on 26.10.2017	13
One day visit of Students from Punjab University, SSG Regional Centre, Bajwara, Hoshiarpur , Punjab on 3.11.2017	16
One day visit of Students from Bahra Univeristy, Waknaghat, Solan, H.P. on 27.11.2017	47
One day visit of Shimla Nursing College, Annadale, Shimla, H.P. on 15.12.2017	34
One day visit of Medical Officers form Pari Mahal, Shimla, H.P. on 16.12.2017	17
One day visit of Students from Department of Forensic Science Jain University, Banglore, Karnataka on 08.02.2018	32
One day visit of Medical Officers form Pari Mahal, Shimla, H.P. on 22.2.2018	19
One day visit of Students from G.S.S.S. Sangarah, Distt. Sirmour, H.P. on 23.2.2018	43
One day visit of Students from Forensic Science & Criminology, Punjab University, Chandigarh on 16.3.2018	41
One day visit of Shivalik Institute of Nurising, Bhattakufar, Shimla, H.P. on 26.3.2018	58



Faculty and Trainee Medical Officers from State Health & Family Welfare Training Centre, Shimla at DFS/HP.

DIGNITARY

Visitor(s)	Date
Prof. Dr. A.K. Gupta, Head, Department of Forensic Science, SHUATS, Allahabad, U.P	23.5.2017
Sh. Prabodh Saxena, Pr. Secy. (Home and Vigilance) to Govt. of Himachal Pradesh	17.6.2017
Dr. Baldev Kumar, Director, Health Services, Himachal Pradesh	17.6.2017
Smt. Pushp Lata (Civil Judge Jr. Division), District Kangra, Himachal Pradesh	21.7.2017
Dr. A.K Ganjoo, Director-Cum-Chief Forensic Scientist, MHA/GOI, New Delhi and Dr. S.K. Jain, Director (I/C), Central Forensic Science Laboratory, Chandigarh.	4.8.2017
Dr. K.P.S. Kartha, Director, Central Forensic Science Laboratory, Hyderabad	16.9.2017
Dr. Shefali Gola & Dr. Nawab John Dar, Assistant Professor, GD Goenka University, Gurgaon, Haryana	26 & 27.11.2017
Justice V.K. Sharma, Chairman, Himachal Pradesh Administrative Tribunal, Shimla	13.12.2017
Sh. J.R. Sharma, IIT, Mandi, Himachal Pradesh	13.12.2017
Dr. R.K. Sarin, Former Director, Central Forensic Science Laboratory, Hyderabad and Former Director, Forensic Science Laboratory, Govt. of NCT of Delhi	13.12.2017
Sh. Ivan S, Siparov, Chief Forensic Officer, ACUSTEK, Ireland	13.12.2017
Dr. A.K Singh, Senior Scientific Officer, CFSL/CBI, New Delhi	19.12.2017
Miss Vatsala Gupta, IPS, Himachal Pradesh Cadre	20.1.2018
Dr. Vishal Sharma & Dr. Shweta Sharma, Assistant Professor, Institute of Forensic Science, Punjab University, Chandigarh	16.3.2018
Dr. S.R. Singh, Sr. Faculty (Physics), LNJN/MHA, New Delhi and Former Director, Central Forensic Science Laboratory, CFSL/CBI, New Delhi	23.3.2018
Dr, S.K. Mandal, Director, State Forensic Science Laboratory, Kolkata	24.3.2018



Dr. S. K. Mandal, Director, State FSL, Kolkata at DFS/HP



Dr. R. K. Sarin Former Director, CFSL, Hyderabad and FSL NCT Delhi at DFS/HP.

RFSL, NR, DHARAMSHALA

Dharamshala became headquarters of District Kangra in 1855 and is located in the shadow of Dhauladar mountains. The area known as Dharamshala was annexed by the British in the year 1848 and was notified as the second capital of the state in 2017. The area was ruled by the Katoch dynasty of Kangra said to be the oldest serving royal family in the world. Kangra is famous for the Kangra tea. There are many temples in Kangra including Masroor Rock Cut temple dating back to 8th century and have carvings similar to Kailash temple at Ellora.



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. Now the RFSL has moved to its own new complex in 2012 and has covered floor area of about 10,000 square feet. The RFSL Dharamshala is catering to the needs of three districts viz. Kangra, Chamba and Una. 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 institution has been in forefront in introducing novelty and has taken lead on many fronts. On 3.3.13, a Pilot Project “ One District one Police Station” (OPDS), first of its kind in the country, has been launched by the Hon’ble Chief Minister, Himachal Pradesh during Silver Jubilee Year of the State FSL. Then the pilot project was expanded to include PS Sadar Chamba on 31.7.2016 during International Minjar Fair. Sometimes, the available techniques are not delivering good results that necessitate the use of new technology. Forensic XP-4010 D, second in the country, was acquired under Modernization of Police Forces Scheme, GOI. Further, Forensic experts of document specialty had successfully participated in Proficiency Testing Programme (PT) with Asia’s best Govt. Forensic Lab in Hong-Kong in 2016-17 and 2017-18.

On 16.4.15, Hon’ble Chief Minister Himachal Pradesh has laid foundation stone of residential complex for the staff of Regional Forensic Science Laboratory, NR, Dharamshala and thus will become first RFSL in the country to have its own residential complex for the officers and officials. A traction elevator facility for hassle free entry to the specially abled persons was inaugurated on 17.11.16 by the Hon’ble Chief Minister HP.

The Cell phone analysis facility with Universal Forensic Extraction Device (UFED) and Forensic Auditing facility, the latter being first of its kind in the country, to detect frauds through digital evidences was created at RFSL, NR, Dharamshala by acquiring equipments and infrastructure. The RFSL, Dharamshala is in International Standards mode and is working for NABL accreditation. Also, state- of- the- art for expert testimony through Video Conferencing was created and CCTV cameras for e-surveillance were installed during the year. Knowledge dissemination to benefit the public/masses was done through electronic and print media. Awareness through exhibition in the International fair of the state was organized every year.

WORKING:

There are three divisions:

Biological Sciences (Biology & Serology Division)

Chemical Sciences (Chemistry & Toxicology Division)

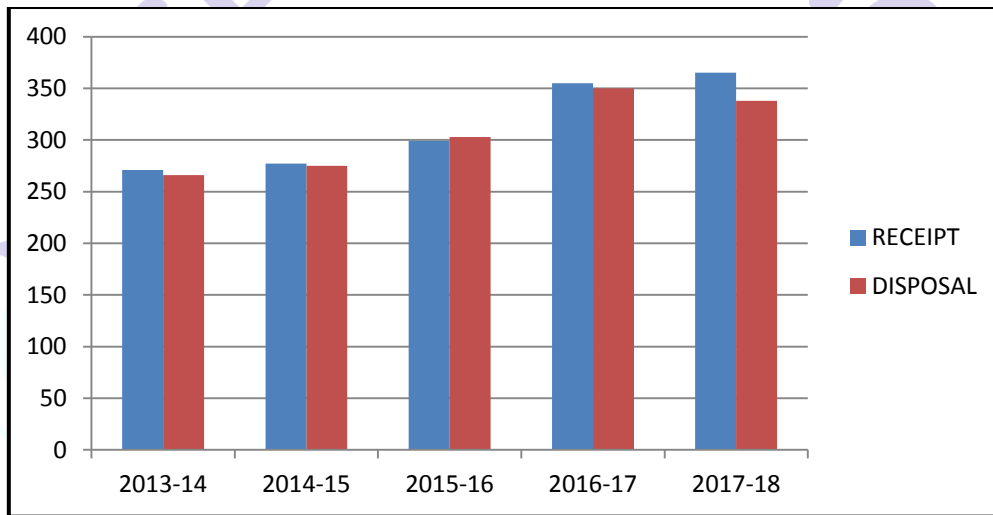
Physical Sciences (Document & Photography Division)

BIOLOGY & SEROLOGY DIVISION

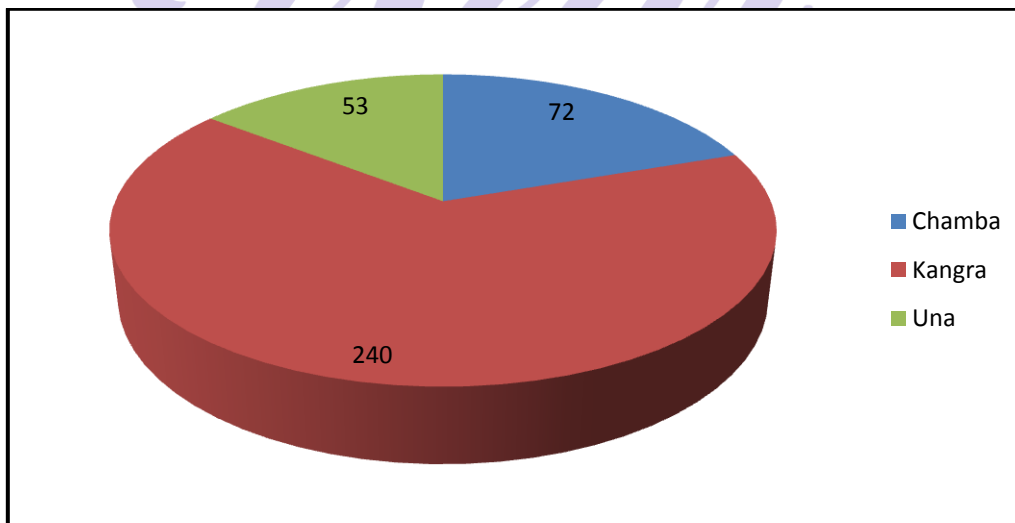
This division is functioning since 2008. The scientific posts were filled up in 2010. The division plays a vital role in cases of homicide, suicide or accidental death and sexual assault etc. The types of evidentiary clues examined in different crime cases for identification and comparison are as under:

- Blood, semen and saliva
- Diatom from bone
- Vomit and faecal matter
- Charred bones, tissues and skin
- Bone (animal and human)
- Hair (animal & human), fibre, feather
- Wildlife cases (flora and fauna)
- Wood and plant products
- Maggots

CASE STATISTICS



DISTRICT WISE CASE RECEIPT 2017-18

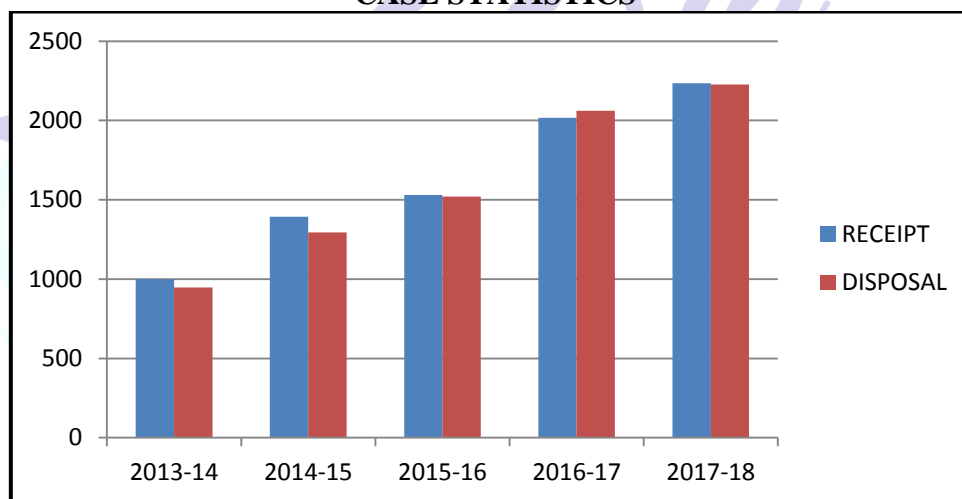


CHEMISTRY & TOXICOLOGY DIVISION

The division started examination of cases in the year, 2008. The examination of excise cases (liquor cases) has also been started since 2010. There is a regular updation of technology in the division to be at par with the other Forensic Science Laboratories in the country. This year one Gas Chromatograph has been added in the division and more instruments are proposed to be added in the coming year. This year division has made preparations to get NABL accreditation so that its reports are at par with the International Standard. Presently, the division undertakes from examination of clue materials such as:

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

CASE STATISTICS



DISTRICT WISE CASE RECEIPT 2017-18

