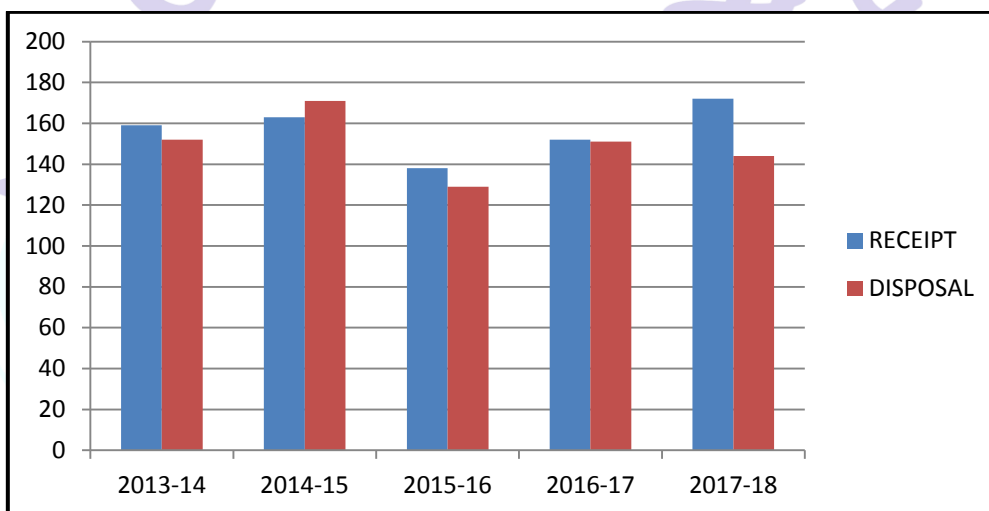


## DOCUMENT & PHOTOGRAPHY DIVISION

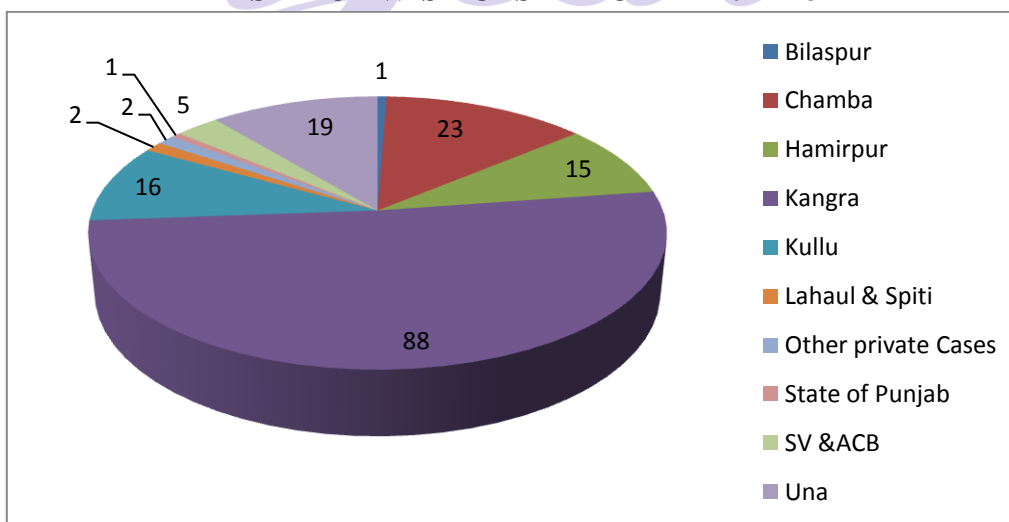
Forensic Document is the systematic and scientific study of holomastic and onomastic documents. The Document and photography Division was established in July, 2008. The crime cases pertaining to Forensic Documents from Districts Kangra, Chamba, Una, Hamirpur, Kullu, Lahaul Spiti, SV&ACB of Northern Range, CID Unit of Northern Range besides cases from Judiciary are examined. With new initiatives, examination of cases pertaining to Cyber Forensics commenced in 2013 to cater the need of investigation agencies. This division provide solutions in:

- Fraud and forgery
- Handwriting, signatures, type writings, computer printouts.
- Stamps/seals, Counterfeit currency,
- Burnt/ soiled documents, Paper and ink analysis
- Genuineness of security documents viz. Passport, stamp paper, credit card, debit card and other financial documents
- Evaluation of erasures, obliterations, alterations, indentations etc.
- Preservation of hard disks, memory cards, pen drives, compact discs, digital video recorder and analysis of mobile phones.
- Scene of crime photography and lab exhibit photography
- Facial comparison

### CASE STATISTICS



### DISTRICT WISE CASE RECIEPT 2017-18



## TEACHING & TRAINING

Name & Designation	No. lectures / demonstrations
Dr. Meenakshi Mahajan, Deputy Director	52
Dr. Vijay Singh Jamwal, Assistant Director	18
Dr. Surinder Kumar Pal, Assistant Director	45
Sh. Ajay Kumar Sehgal, Scientific Officer	26
Sh. Mam Raj Sharma, Scientific Officer	27
Sh. Rajesh Kumar, Scientific Officer	27
Sh. Rajat Choudhary, Scientific Assistant	4
Sh. Upender, Laboratory Assistant	4

### TRAINING ATTENDED

Name	Course
Dr. Meenakshi Mahajan, Deputy Director	<ul style="list-style-type: none"> <li>• Training programme on Cyber Forensic and Admissibility of Digital Evidence on 23-27.10.2017 at CFSL, Hyderabad.</li> </ul>
Dr. Vijay Singh Jamwal, Assistant Director	<ul style="list-style-type: none"> <li>• Training on Measurement of Uncertainty (MOU) and Viscera Analysis on 19-20.2.2018 at FSL, Rohini, Delhi.</li> </ul>
Sh. Mam Raj Sharma, Scientific Officer	<ul style="list-style-type: none"> <li>• Course on Examination of Security Documents &amp; Electronic Printouts on 23-28.07.17 held at NICFS Delhi.</li> <li>• Training on NABL Accreditation at SFSL Junga on 5.9.17 and 14-16.9.17.</li> </ul>
Sh. Rajesh Kumar, Scientific Officer	<ul style="list-style-type: none"> <li>• Training on Measurement of Uncertainty (MOU) and Viscera Analysis on 19-20.02.2018 at FSL, Rohini, Delhi.</li> <li>• Training on Snake bites case analysis on 6-7.11.2017 at SFSL, Jaipur, Rajasthan.</li> </ul>

*“When you have eliminated all which is impossible, then whatever remains, however improbable, must be the truth.”*

*Sir Arthur Conan Doyle*

## COURSE ORGANIZED

In pursuance to Himachal Pradesh Police Act, 2007, to enhance professionalism in crime investigation amongst Investigating Officers of the Northern Range, the Police Head quarters had allotted two training courses of two weeks duration. The trainees were delivered theory lectures and imparted practical trainings. On completion of training, the trainees appeared in written test and the result was communicated to the Police Headquarters.

Course	Number
<ul style="list-style-type: none"><li>Two weeks training on Forensics Science including DNA profiling in Rape cases at RFSL, NR, Dharamshala for the Investigation Officers of Northern Range w.e.f. 16-27.5.17.</li></ul>	19
<ul style="list-style-type: none"><li>Two weeks training on Forensics Science including DNA profiling in Rape cases at RFSL, NR, Dharamshala for the Investigation Officers of Northern Range w.e.f. 12-24.3.18.</li></ul>	23



**Director Forensics Services, HP with Faculty and Trainee Police Officers**

**INTERNSHIP/ VISITS**

<b>Sr. No.</b>	<b>Institute/University</b>	<b>Date</b>	<b>No. of Students</b>
1.	BSc.(H) Forensic Science students from Amity University, Noida, UP	25-31.5.17	2
2.	BSc. (H) Forensic Science students from Amity University, Noida, UP	25.5-19.6.17	2
3.	BSc. (H) Forensic Science students from Amity University, Noida, UP	30.5-20.6.17	4
4.	Trainees of Law Students from DDM Sai Law College, Kallar, P.O. Jalari, Tehsil Nadaun, Distt. Hamirpur	21.6.17	35
5.	BSc.(H) Forensic Science students from Amity University, Gurugram, Haryana	1-30.6.17	8
6.	BSc. (H) Forensic Science students from Amity University, Noida, UP	1-30.6.17	11
7.	M Sc. Forensic Science students from Chandigarh University, Gharuan, Mohali	1-30.6.17	7
8.	M Sc. Forensic Science student from Punjab University, Chandigarh	1-30.6.17	1
9.	M Sc. Forensic Science students from Lovely Professional University, Phagwara, Punjab	1-30.6.17	1
10.	M Sc. Students from Choudhary Devi Lal University, Sirsa, Haryana	5.6.17-5.7.17	2
11.	M Sc. Students from Maharishi Markandeshwar University, Mullana, Ambala, Haryana	5.6.17-5.7.17	4
12.	BSc.(H) Forensic Science students from Amity University, Gurugram, Haryana	5.6.17-5.7.17	1
13.	B Sc. Forensic Science students from Lovely Professional University, Phagwara, Punjab	1-25.7.17	5
14.	M Sc. Students from Shoolni University, Solan H.P.	1-28.7.17	2
15.	B Sc. Forensic Science students from Lovely Professional University, Phagwara, Punjab	5-28.7.17	2
16.	B Sc. Forensic Science students from Lovely Professional University, Phagwara, Punjab	15-31.7.17	2
17.	M Sc. Forensic Science students from Lovely Professional Univeristy, Phagwara, Punjab	11-16.12.17	1
18.	B.Sc students from Govt. Degree College, Dharamshala, H.P.	21.12.17	50
19.	M Sc. Forensic Science students from Chandigarh University, Gharuan, Mohali	11-23.12.17	10
20.	M Sc. Forensic Science students from Chandigarh University, Gharuan, Mohali	11-28.12.17	10
21.	M Sc. Forensic Science students from Chandigarh University, Gharuan, Mohali	11.12.17-10.1.18	1
22.	M Sc. Forensic Science students from Chandigarh University, Gharuan, Mohali	11.12.17-11.1.18	2
23.	M Sc. Forensic Science students from Sam Higginbottom University of Agriculture, Technology and Sciences, Allahabad, U.P.	2-22.01.18	5
24.	M Sc. Forensic Science students from Lovely Professional University, Phagwara, Punjab	8.1.18-31.3.18	1
25.	M Sc. Forensic Science students from Lovely Professional University, Phagwara, Punjab	8.1.18-7.4.18	1

**CONFERENCE/SEMINAR/WORKSHOP/SYMPOSIUM ATTENDED**

Name	Remarks
Dr. Meenakshi Mahajan, Deputy Director	<ul style="list-style-type: none"> <li>• Three Day Workshop on ‘Cyber Security’ in collaboration with CDAC on 5-7.7.17.</li> <li>• Workshop on Audio Forensics at FHQ on 13.12.2017.</li> <li>• Seminar on ‘Quality Management’ at RFSL Dharamshala on 12.1.18.</li> <li>• Seminar on ‘Forensic Documents and Emerging Challenges’ on 30.3.18 organized by RFSL Dharamshala.</li> </ul>
Dr. V.S. Jamwal, Assistant Director	<ul style="list-style-type: none"> <li>• Workshop on ‘Cyber Security’ on 5-7.7.17</li> <li>• Seminar on ‘Quality Management’ at RFSL Dharamshala on 12.01.18.</li> </ul>
Dr. Surender Kumar Pal, Assistant Director, Sh. Ajay Sehgal, Scientific Officer,	<ul style="list-style-type: none"> <li>• Workshop on ‘Cyber Security’ on 5-7.7.17.</li> <li>• Attended ‘International Conference on Forensic Sciences &amp; Cyber Security (INFORSECON, 2017) at Gujarat Forensic Science University (GFSU), Gandhinagar, Gujarat on 5-6.10.2017.</li> <li>• Seminar on ‘Quality Management’ at RFSL Dharamshala on 12.1.18.</li> <li>• One day seminar on “Forensic Documents &amp; Emerging Challenges” at RFSL, NR, Dharamshala on 30.3.2018.</li> </ul>
Dr. Surender Kumar Pal, Assistant Director, Sh. Mam Raj Sharma, Scientific Officer, Sh. Rajesh Kumar, Scientific Officer	<ul style="list-style-type: none"> <li>• Workshop on “NABL Accreditation” on 14-16.9.2017 at DFS, Junga.</li> </ul>
Sh. Mam Raj Sharma, Scientific Officer	<ul style="list-style-type: none"> <li>• Workshop on ‘Cyber Security’ on 5-7.7.17</li> <li>• Seminar on ‘Quality Management’ at RFSL Dharamshala on 12.1.18.</li> <li>• Seminar on ‘Forensic Documents and Emerging Challenges’ on 30.3.18 at RFSL Dharamshala.</li> </ul>
Sh. Rajesh Kumar, Scientific Officer	<ul style="list-style-type: none"> <li>• Workshop on ‘Cyber Security’ on 5-7.7.2017.</li> <li>• Seminar on ‘Quality Management’ at RFSL Dharamshala on 12.1.18.</li> </ul>
Sh. Rajat Choudhary, Scientific Assistant	<ul style="list-style-type: none"> <li>• Workshop on ‘Cyber Security’ w.e.f. 5-7.7.2017.</li> <li>• Attended Forensic Exhibition on ‘Cyber Security’ at Gurugram on 14.12.17.</li> <li>• Seminar on ‘Quality Management’ at RFSL Dharamshala on 12.1.18.</li> </ul>
Sh. Ajay Rana, Scientific Assistant, Sh. Upender, LA	<ul style="list-style-type: none"> <li>• Workshop on ‘Cyber Security’ on 5-7.7.2017.</li> <li>• Seminar on ‘Quality Management’ at RFSL Dharamshala on 12.1.18.</li> <li>• One day seminar on “Forensic Documents &amp; Emerging Challenges” at RFSL, NR, Dharamshala on 30.3.2018.</li> </ul>

## SESSION CHAIRED/RADIO TALK/TV TALK

Name & Designation	Activity
Dr. Meenakshi Mahajan, Deputy Director	• Delivered talk in the Seminar on Forensic Document and Emerging Challenges, at RFSL, NR, Dharamshala on 30.3.18.

## SEMINAR/WORKSHOP/SYMPOSIUM ORGANIZED

- Seminar on Forensic Documents & Emerging Challenges was organized for Judicial, Police, Prosecution and Forensic Officers on 30.3.18. Fifty officers participated in the seminar. The eminent forensic expert and the Founder Director State FSL, Himachal Pradesh, Dr B. R. Sharma was chief guest on occasion.
- One day seminar on Quality Management System was organized for the staff of RFSL, NR on 12.1.18. Dr. R.K. Sarin Director (Retd) CFSL, Hyderabad was a resource person.
- Three days workshop on Cyber Security in collaboration with CDAC, MEITY, GOI, was organized for Police, Forensic Experts and under trainee students w.e.f. 5-7.7.17. Sh. Sohan Lal Sharma, District & Sessions Judge, was the Chief Guest on the occasion.
- One day seminar of Scanning Electron Microscopy was organized for the Forensic Experts of RFSL, NR, Dharamshala. Sh C.K. Chanderkant, Scientist from the National Institute of Science and Technology, a unit of CSIR discussed in detail applications of SEM in the field of Forensic Science on dated 8.5.17.
- Workshop on Youth Empowerment and Skill Development was organized for the undergoing trainee students at RFSL, NR, Dharamshala on dated 23.6.2017.



**Seminar on Forensic Documents & Emerging Challenges for Judicial, Police, Prosecution and Forensic Officers on 30.03.18 at RFSL, NR**

**DIGNITARY**

Visitor(s)	Date
Dr. M.L. Prajapati, Sr. Lecturer, Ayurvedic College, Paprola, Kangra, H.P.	18.4.17
Dr. Chandrakanth. CK., Pr. Scientist, CSIR, Trivanthpuram, Kerala	8.5.17
Prof. A.K. Gupta, Head, Deptt. of Forensic Science, Sam Higginbottom University of Agr., Tech & Science, Allahabad.	29.5.17
Dr. O.P. Sharma, DDM, Sai College, Kallor , Jalari, Hamirpur H.P.	21.6.17
Dr. Daisy Verma, HOD English, HPU, Regional Centre, Dharamshala, H.P.	27.6.17
Dr. S.C. Gupta, Prof. & Head, Deptt. of Community Medicine and Director Research ICMR, project, Ludhiana, Punjab.	1.7.17
Sh. Sohan Lal Sharma, Distt. & Session Judge, Kangra at Dharamshala, H.P.	5.7.17
Maj. Vikas Saklani, Commandant Home Guards, Dharamshala	26.7.17
Ms. Shailbala A. Martin, IAS, Bhopal, M.P.	19.12.17
Dr. Sanjay Gupta, Dept. of Chemistry, GDC, Dharamshala, H.P.	21.12.17
Dr. R.K. Sarin, Director Retd., CFSL, Hyderabad & Ex. Director, FSL, Rohini Delhi	12.1.18
Ms. Soumya Sambasivam, IPS, Principal, Police Training College, Daroh, Palampur Kangra H.P.	19.3.18
Dr. Vishal Sharma, Asstt. Professor, IFSC, Panjab University, Chandigarh	30.3.18
Sh. Samir Dutt, Director, Foundation Futuristic Technoloioes, New Delhi	30.3.18
Dr. B.R.Sharma, Director (Retd.) Central FSL and State FSL HP	30.3.18
Dr. Arun Sharma, Director Forensics Services, H.P.	30.3.18



Ms. Shail Bala A Martin, IAS, Bhopal, MP at RFSL, NR.



Sh. S.L. Sharma, Distt. & Session Judge, Kangra, at RFSL, NR during the inaugural ceremony of workshop on Cyber Security.

## RFSL, CR, MANDI

### INTRODUCTION:

Mandi formerly known as Mandav Nagar which remained capital of erstwhile princely state of Mandi is situated on the bank of river Beas. Mandi town is the head-quarter of Mandi district and Zonal Head Quarter of Central Zone. There are more than 300 old and new temples at Mandi also known as “Chotti Kashi”.



In the 1<sup>st</sup> meeting of the Himachal Pradesh Forensic Science Development Board, the

Government created Regional Forensic Science Laboratory, Central Range, Mandi to cover central range districts for quick and timely availability of the scientific reports in crime investigations. Initially in the year 2008 the RFSL, CR Mandi was temporarily housed in a rented accommodation at Gutkar at NH-21. The RFSL moved to its own new complex in March, 2013. The complex has an area of about 10,000 square feet and constructed as per passive solar principles. The RFSL Mandi is catering to the needs of five districts viz. Mandi, Kullu, Lahaul & Spiti, Bilaspur, Hamirpur. There are three specialties viz. Biological Sciences, Physical Sciences and Chemical Sciences. 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. A Pilot Project “One District One Police Station” (OPDS) has been expanded to include PS Sadar, Mandi during International Shivratri Fair on 26.2.2017. The institution got modernized with the acquisition of new advanced instruments and with up-gradation of existing equipment (Comparison Microscope) from manufacturer’s site in Switzerland.

New specialty has been planned in pursuance to guidance from the Directorate of Forensic Science Services, MHA/GOI, New Delhi. Accordingly, infrastructure’s for Voice analysis facility has been created and this facility would soon be operationlized. The RFSL, CR is working for NABL accreditation based on International Organization of Standardization (ISO/IEC 17025: 2005).

### WORKING:

There are three scientific divisions:

Biological Sciences (Biology & Serology division)

Chemical Sciences (Chemistry & Toxicology Division)

Physical Sciences (Physics & Ballistics Division)

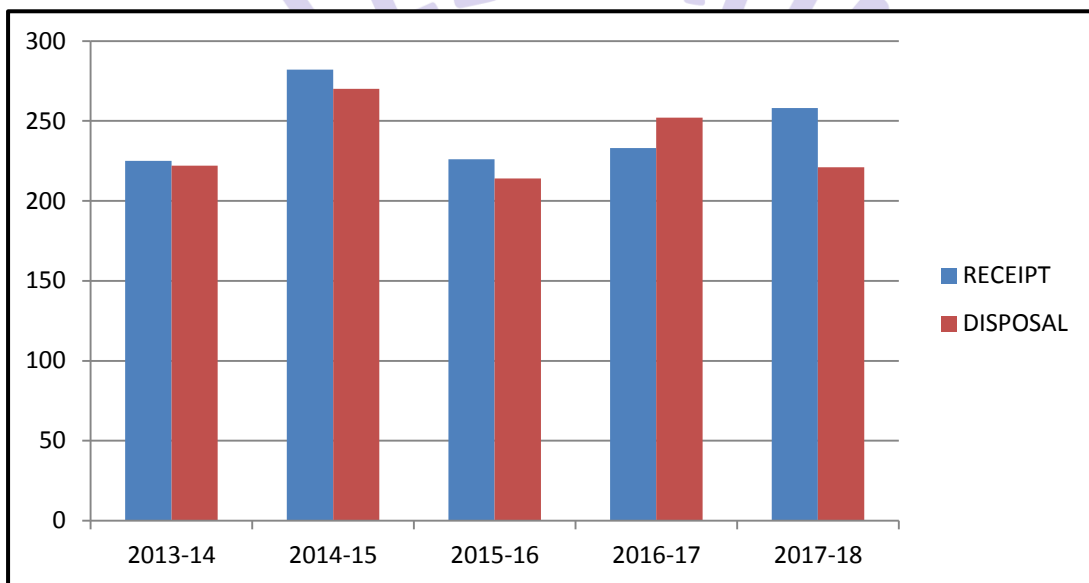


## BIOLOGY & SEROLOGY DIVISION

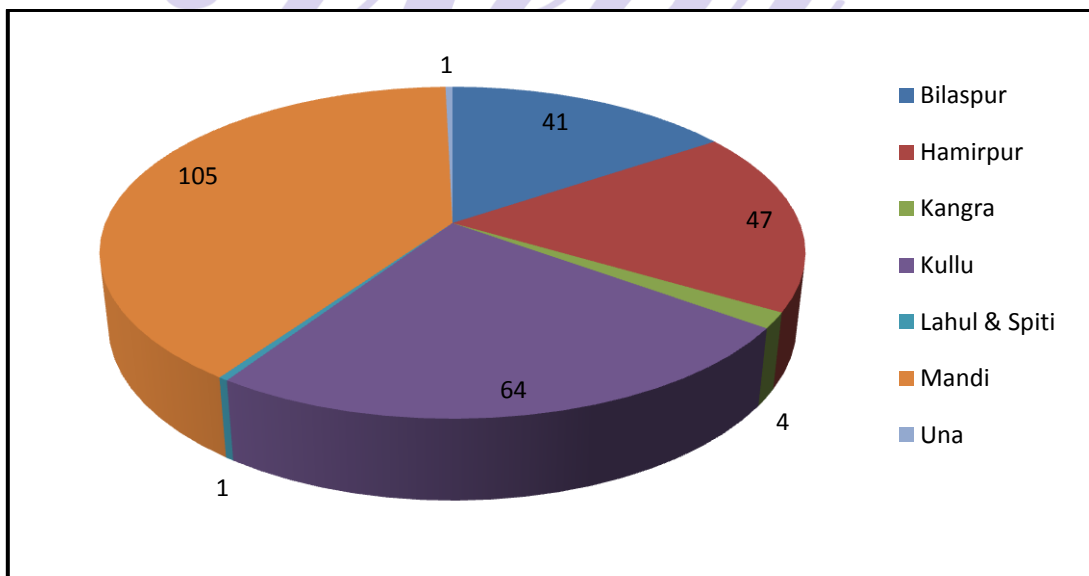
This division is functioning since 2009 and undertakes examination of the following types of evidentiary clues in different crime cases for identification and comparison:

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

### CASE STATISTICS



### DISTRICT WISE CASE RECEIPT 2017-18

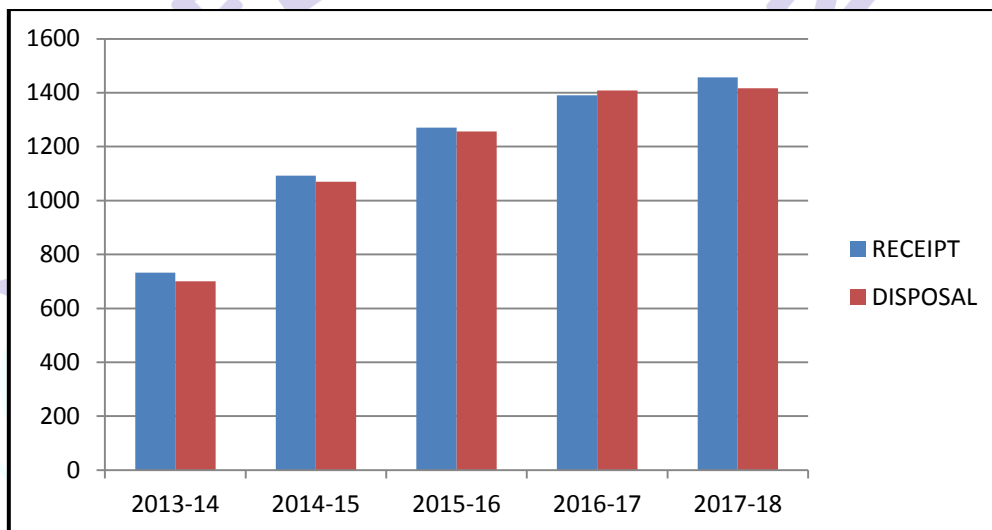


## CHEMISTRY & TOXICOLOGY DIVISION

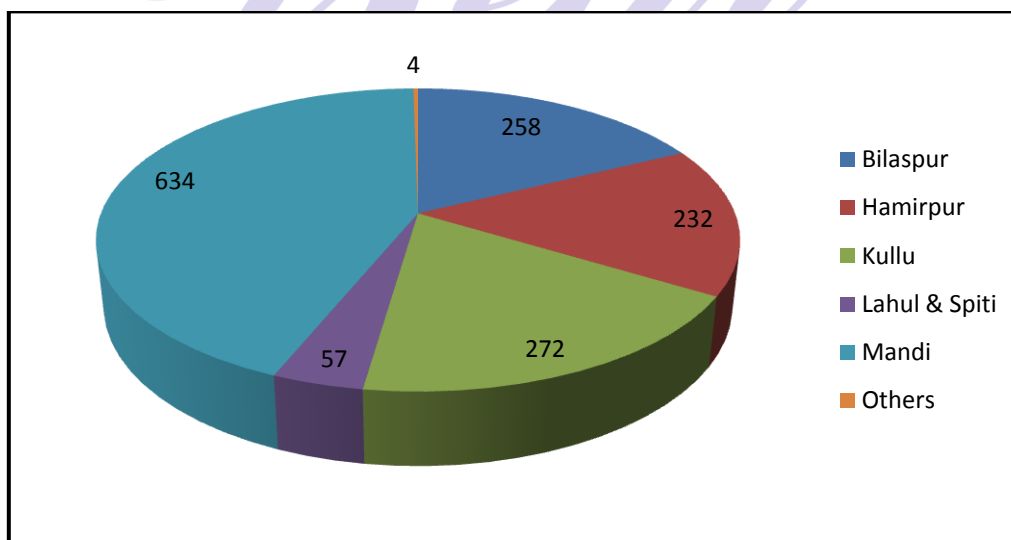
The division undertakes examination of clue materials such as:

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

### CASE STATISTICS



### DISTRICT WISE CASE RECEIPT 2017-18

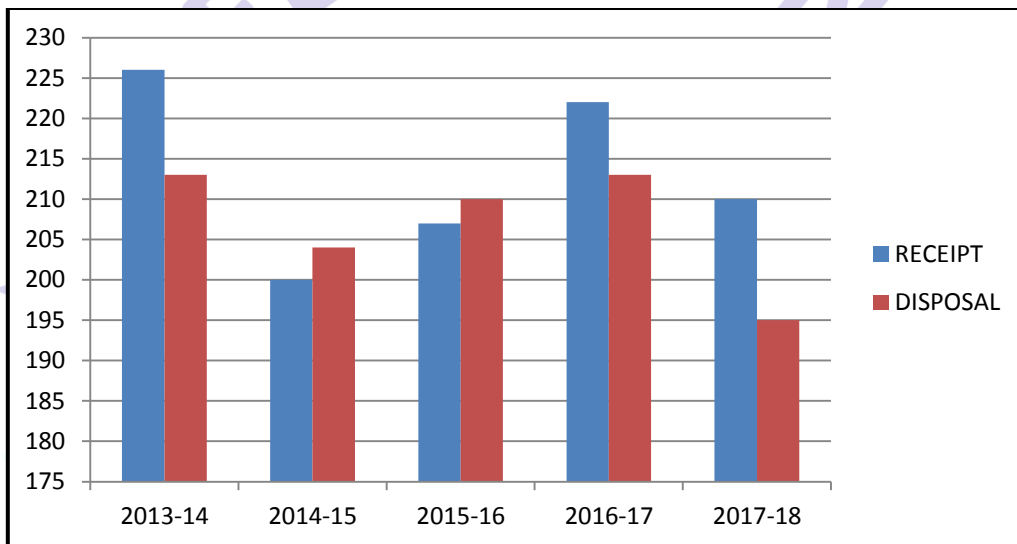


## PHYSICS & BALLISTICS DIVISION

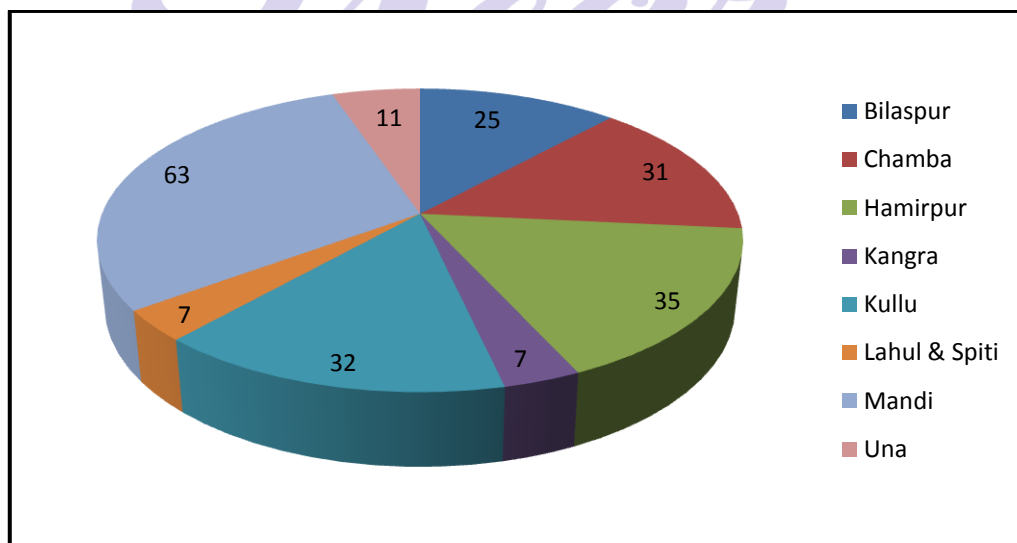
The division undertakes examination of clue materials such as:

- Tool marks & telephone cables
- Footprints, shoe prints & tyre marks
- Paint and glass
- Building materials & road materials
- Paper & fiber
- Soil examination
- Shining globule formation in electric short circuiting
- Resuscitation of number of stolen vehicle chassis and firearms
- Firearms, ammunition & gunshot residues etc

### CASE STATISTICS



### DISTRICT WISE CASE RECEIPT 2017-18



## TEACHING & TRAINING

Name	No. of lectures / demonstrations
Sh. Rajesh Kumar, Assistant Director	5
Sh. Tek Chand, Assistant Director	4
Dr. Neeti Prakash, Assistant Director	7
Dr. Naresh Kumar, Scientific Officer	3
Dr. Vijay Kumar, Scientific Officer	4
Sh. Sanjeev Singh, Scientific Officer	5
Sh. Dev Raj, Scientific Assistant	8
Sh. Chanderkant, Scientific Assistant	3
Sh. Hitesh Singh, Laboratory Assistant	1
Sh. Pradeep Kumar, Laboratory Assistant	1

## TRAINING ATTENDED

Name	Course
Sh. Rajesh Kumar	<ul style="list-style-type: none"> <li>• Course on Speaker Identification at NICFS on 29.1-2.2.2018 at New Delhi</li> <li>• Course on Voice Analysis on 19.2-3.3.2018 at TFSL Hyderabad.</li> </ul>
Dr. N.P. Dubey	<ul style="list-style-type: none"> <li>• Training on “Impact of Forensic Report on Judicial Decision in Criminal Trial” at on 25-27.9.2017 at LNJNI, NICFS, MHA, New Delhi.</li> <li>• Training on “Fire and Explosion Investigation” on 18-22.12.2017 at LNJNI, NICFS, MHA, New Delhi.</li> </ul>
Dr. Naresh Kumar	<ul style="list-style-type: none"> <li>• Expert Testimony in Criminal Trial on 15-19.5.2017 at NICFS, New Delhi</li> <li>• Wild Life Crime &amp; Forensic Science on 23-27.10.2017 at LNJNI, NICFS, New Delhi</li> </ul>
Dr. Vijay Kumar	<ul style="list-style-type: none"> <li>• “Training on Snake bite cases examination” on 6-7.4.2017 at SFSL, Jaipur, Rajasthan.</li> </ul>
Sh. Sanjeev Singh	<ul style="list-style-type: none"> <li>• Course on Expert Testimony in Criminal Trial on 15-19.5.2017 at LNJNI, NICFS, New Delhi</li> </ul>

### CONFERENCE/SEMINAR/WORKSHOP/SYMPOSIUM ATTENDED

Name	Remarks
Dr. Rajesh Kumar, Dy. Director	National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics from 16.12.2017 to 19.12.2017 at IIT, Mandi.
Sh. Rajesh Kumar, Dr. N.P. Dubey, Sh. Tek Chand, Dr. Naresh Kumar, Dr. Vijay Kumar, Sh. Chander Kant, Sh. Dev Raj, Smt. Poonam Sharma, Sh. Pradeep	Workshop on NABL Accreditation, ISO/IEC: 17025 on 17-21.03.2018 at RFSL, Mandi.

### COURSES ORGANIZED

Course	Number
• Training in Forensic Science for Investigating Officers of Central Range on 12-24.06.2017.	23



Workshop on Quality Assurance, NABL Accreditation at RFSL, CR

### INTERNSHIP

Sr. No.	Institute/University	Date	No. of Students
1.	Student from Shoolini University, Solan	15.6-16.7.17	1
2.	Students from Shoolini University, Solan	28.6-28.7.17	2

## RESEARCH PUBLICATIONS

A communiqué from the editor of journals (national/international) and organizers of conference/seminar conveying acceptance of the research work for publication are the fuels that keep us moving forward. An endeavor has been made by creating congenial environment, encouraging officers/officials to write articles, research papers.

Author(s) Name	Title	Reference
Sharma S, Kumar K, Bhargava S, Jamwal VS, Sharma A, Singh R	Data in support of poisoning related mortalities from southern Himachal Pradesh	Data in Brief, 12: 493 (2017)
Kaushik N, Pal K S , Sharma A, Thakur G	Role of Diatoms in Diagnosis of Death Due to Drowning: Case Studies	International Journal of Medical Toxicology and Forensic Medicine. 7(1): 59 (2017).
Kumar V, Sharma N and Sharma A	DNA barcoding of the Indian blackbuck ( <i>Antelope cervicapra</i> ) and their correlation with other closely related species	Egyptian Journal of Forensic Sciences 7:31 (2017)
<u>Kumar V , Neel kamal</u> and Sharma A.	Dna barcoding as a wildlife forensic tool (wft) for species identification: a case study on blackbuck ( <i>antelope cervicapra</i> ) in india.	Int. J. Adv. Res. 5(6): 1283 (2017)
Srivastava A, Mahajan M., Kirti N.	Decipherment of Latent Handwritten Impressions- A case Study	Journal of Forensic Research 8: 5 (2017)
Meenakshi M	Forensic Fiber Analysis Unraveled Mystery of Homicide	Abstract published in the proceeding of National Seminar on Current Scenario in Forensic Investigative Techniques, MDU, Rohtak, 2017.
Mahajan M., Choudhary R, Sharma A	Digital Video Recorder CCTV Footage backup using Window 7. Pea Seeds: Genuine or Spurious- A Case Study.	Abstract Published in the proceeding of International Conference on Forensic Science & Cyber Security held at Gandhi Nagar, Gujarat (2017)
Pal SK, Sharma A, Sehgal A., Rana A.	Diagnosing death with diatoms: A retrospective study of forensic cases in Himachal Pradesh.	International Journal of Medical Toxicology and Forensic Medicine, 7 (2): 124 (2017).

Sahu P, Pal SK, Rana A	Determination of age and development of Barr body in root sheath cells of Human females.	Journal of Forensic Science & Criminal Investigation 5 (3): 1 (2017)
Verma K, Sharma S, Sharma A, Dalal J and T Bhardwaj T	Data on Haplotype diversity in the hypervariable region I, II and III of mtDNA amongst the Brahmin population of Haryana	Data in Brief 17: 305 (2018)
Kumar V, Sharma N, Sharma A, Verma K, Singal K, Kumar M	A data-based study in support of Blackbuck related cases from Haryana	Data in Brief 17 1196 (2018)
Verma K, Sharma S, Sharma A, Dalal J, Bhardwaj T	Sequence polymorphism data of the hypervariable regions of mitochondrial DNA in the Yadav population of Haryana, Data in Brief 2018	Data in Brief 18:164 (2018),
Mahajan M., Choudhary R, Sharma M R, Sharma A	Forensic Analysis of Disputed official order: A Case Study	Abstract published in proceedings of All India Forensic Science Conference 51 (2018).
Pal S.K, Rana A, Sharma A, Sehgal A.	Forensic study of child sexual abuse in northern range of Himachal Pradesh.	Peer Rev J Foren & Gen Sci, 1 (3): 1 (2018).

## PROFESSIONAL EXCELLENCE

### Dr. Arun Sharma:

- Application for NABL accreditation of State FSL filed, Pre-assessment completed on 3.3.18 for State FSL and final Assessment is due in April, 2018. Quality Manual of RFSL, NR approved after giving essential inputs, Pre-assessment for RFSL, NR is due on 16.4.2018. NABL accreditation process initiated for RFSL, CR, Mandi.
- Prepared Unit Writing on Body Fluids for IGNOU, New Delhi.
- Examined Scene of Crime and introduced a new concept of 3-D Crime Scene Scanning for reconstruction in a case of controversial firing by Police on a speeding vehicle.
- Examined Ph.D. thesis and guided three Ph. D students as a co-supervisor.
- External member of Deptt. Research Committee for appraisal of Research Proposals leading to award of Ph.D. degree.
- Member in the committees constituted by Ministry of Home Affairs (GOI) for uniform manual, Standard Operating Procedure (SOP) & reporting pattern in the subject of Biology & DNA and Crime Scene Management.
- Key note speaker in National Seminar on Current Scenario in Forensic Investigation Techniques at Deptt. of Genetics, MDU, Rohtak on 7.9.2017.
- Key note speaker in Seminar on Forensic Documents and Emerging Challenges at RFSL, Dharamshala on 30.3.2018.
- A National Award for Leadership in Forensic Science was conferred at International Conference on Advancement in Forensic DNA Technology on 22-24.2.2018 at Bundelkhand University, Jhansi by the Forensic Science Society of UP.
- Expert Testimony deposited in a case of gang rape examined for DNA profiling, Distt. Kangra which ended in conviction of 20 year imprisonment to each perpetrator of the crime.
- First time Bio-Medical Waste Management Scheme for disposal of viscera after analysis was designed, pursued and got approved from the Govt. for the State and got operationalized in Southern Range and Central Range. Pursuing for Northern Range.
- H.P. Forensic Document Examiners Finger Print Examiners Regulatory Authority for (Private Practitioners), 2017 got approved and notified for H.P. State.
- Chaired scientific session in 'International Conference on 'Forensic Science and Cyber Security', Gandhinagar and International Conference on "Advances in Forensic DNA Technology, BU, Jhansi.
- Two new specialties viz. Forensic Psychology and Finger Print Bureau were got approved in the Directorate of Forensic Services.
- Cyber forensic lab-cum-training centre got approved from the Govt. and funds Rs. 1.48 Crore allotted under CCPCWC scheme of GOI.

### Dr. Meenakshi Mahajan

- Participated in the Proficiency testing programme initiated by Asia's best Govt. Forensic lab at Hong Kong in the field of Forensic Documents (especially in foreign script) for the second year consecutively.
- Technical Guidance was provided to Dy. Excise & Taxation Commissioner, Flying Squad, South Zone, Parwanoo in verification of 'C' Form where fraud of crore of rupees could be unearthed.



- Member of the Committee constituted by MHA/GOI for uniform manual and SOP in the field of computer forensics.
- Examiner for M. Sc Forensic Science MDU, Rohtak and guided two students for M. Sc. dissertation in the field of forensic document.

**Sh. Visheshwar Sharma**

- Examined and reported cases referred by the Defense Research and Development Organization and Excise & Taxation department.

**Dr. Vivek Sahajpal**

- DNA profile could be generated from bite marks in the infamous case of rape and murder case which helped in reaching the real perpetrator of crime.
- Prepared Quality Manual for NABL accreditation and worked as Quality Manager.
- Participated in eighth Asian AICEF DNA Proficiency test – 2017, conducted by Academia Iberoamericana de Criminalística y Estudios Forenses (AICEF), Spain.

**Sh. Kapil Sharma**

- Hon'ble High Court of Himachal Pradesh was assisted in a case related to Manufactured Narcotic Drugs on 17.7.2017.

**Sh. Rajesh Kumar**

- Infrastructure created for examination of road materials and analysis commenced.
- Infrastructure created for analysis of Audio samples after undergoing training.

**Dr. N.P. Dubey**

- A new testing area is established for snake venom detection in blood-target tissue in snake bite cases.

**Sh. Nasib Singh Patial**

- A letter of appreciation was given by DGP/HP for rendering excellent services at the Scene of Crime at odd hours to give lead in the investigation.
- In recognition of services rendered the officer, he was given award of “Forensic Excellence in Crime Scene Management” during 2<sup>nd</sup> Raising Day Celebrations.

**Sh. Mam Raj**

- Participated in Proficiency Testing Programme conducted by Govt. Laboratory, Hong Kong.

**Sh. Chaman Lal**

- In recognition of services rendered the officer, he was given award of “Forensic Excellence in Lab Work” during 2<sup>nd</sup> Raising Day Celebrations.

## MAJOR INITIATIVES

- Initiatives undertaken for the NABL accreditation of State FSL, RFSLs (NR & CR).
- Proposal for the Bio-Medical Waste Management Scheme for disposal of viscera after analysis from State FSL & RFSLs was submitted to Govt.
- Proposal for constitution of H.P. Document Examiners Finger Print Examiners Regulatory Authority for (Private Practitioners), 2017 was submitted to Govt.
- Quality manual of State FSL for NABL accreditation process was sent to Govt. for approval
- Proposal for Cyber Forensic Lab and Training Centre was submitted to the Govt. under Cyber Crime Prevention against Women & Children (CCPWC) scheme of Govt. of India.
- The Govt.'s target for 100 days: Establishment of Lie Detection facility was undertaken as a challenge.
- Establishment of Forensic Auditing/Accounting facility, first of its kind in the country, at RFSL, NR was undertaken.
- Proposal for signing MOU joint exercise with US Forensic lab initiated. Likewise, initiated for membership with Asia Forensic Science Network (AFSN).
- Proposal for purchase of equipment and Infrastructure for New specialty-Voice Analysis at State FSL and RFSL, CR was submitted to Govt.
- Proposal for signing MOU between DFS/HP and IIT, Mandi for collaborative research and use of instruments was submitted.
- Proposal for Automated Finger Print Identification System submitted to the PHQ.
- To meet shortage of man power in Chemistry and Toxicology Division, proposal for re-employment of Scientific Officer was submitted to the Govt.
- Proposal for SO (Audit) service for State FSL & RFSLs and Law officer service for Directorate of Forensic Science was submitted to the Govt.
- 2<sup>nd</sup> Raising Day celebration of State FSL was undertaken.
- Award Scheme on the occasion of 2<sup>nd</sup> Raising Day of State FSL at the Directorate level was submitted to the Govt.
- Proposal was submitted for integration of Finger Print Bureau with the Directorate of Forensic Science, Himachal Pradesh.
- Amendment in H.P. Police Act, 2007 was proposed to the Govt. and amendment bill prepared.
- Proposal for repair of equipment Comparison Microscope (cost Rs. 38 lacs) of RFSL, CR, Mandi, free of cost at manufacturing site in Switzerland, was submitted to the Govt.
- Essay writing competition on impact of social media and a quiz competition on International Day against drug abuse and illicit drug trafficking was organized by RFSL, NR.
- Collaboration with CDAC, MEITY, GOI for organizing workshop/training programme on Cyber Security.

## ACHIEVEMENTS

- Quality manual of State FSL for NABL accreditation process was got approved from the Govt. Quality Manual of RFSL was approved.
- Funds to the tune of Rs.1.48 Crore for establishment of Cyber Forensic Lab and Training Centre got approved from the Govt. under Cyber Crime Prevention against Women & Children (CCPWC) scheme of Govt. of India.
- New specialty: Lie Detection was established at State FSL after acquiring infrastructure, equipment and manpower which was in the targets for 100 days.
- Forensic Auditing/Accounting facility, first of its kind in the country, at RFSL, NR created after acquisition of equipments.
- Manpower trained, equipment purchased and infrastructure created for new specialty-Voice Analysis at State FSL and RFSL, CR.
- MOU signed with IIT, Mandi for collaborative research and use of instruments. MOU with US Forensic lab is in progress.
- Post of Supdt. grade- I filled up from the Govt. first time after 1997. Post of Sr. Assistant and two posts of constable drivers also filled up from the PHQ.
- Scientific Officer (Chem. & Toxi.) was re-employed to run Chemistry & Toxicology Division closed for want of reporting officer at State FSL. A post of SO (DNA) was got filled up.
- Proposal for SO (Audit) service for State FSL & RFSLs and Law officer service for Directorate of Forensic Science was got approved from the Govt.
- Proposed Budget enhancement 3 times in various heads as compared to the budget of 2017-18. Rs. 2 Crore was sanctioned for the purchase of AFIS for Finger Print Bureau announced in the Budget Speech for 2018-19.
- 2<sup>nd</sup> Raising Day celebrated and workshop was organized on Forensic Acoustics. Talk on Code of Ethics in Forensic Science was organized under Continuous Forensic Education programme.
- Award Scheme initiated and two officers were awarded during the celebration of 2<sup>nd</sup> Raising Day.
- Organized Workshop for officers of State FSL & RFSLs and training programmes for the stake-holders.
- Equipments worth Rs. one crore from Plan Fund & Rs. 69.50 Lacs from MPFS funds were purchased.
- Annual Administrative Report 2016-17 was completed, got approved from the Govt. and laid in the Vidhan Sabha.
- 44 cases of RTI were disposed.
- Integration of Finger Print Bureau with the Directorate of Forensic Science, Himachal Pradesh got approved from the Govt. and notification was issued by the Govt. in April, 2017.
- Amendment in H.P. Police Act, 2007 was proposed and got approved from the Govt. Also, got authorities approved at Directorate Level, State Level, Regional Level & Distt. Level offices, for the first time, in the H.P. Police (Amendment) Bill, 2018.
- Got fully utilized sanctioned State Innovation Fund for Video Conferencing facility for Expert Testimony from RFSL, NR, Dharamshala.
- Equipment worth Rs.38 Lacs was got repaired free of cost at manufacturing site in Switzerland after preparing a proposal, pursuing with the Govt., got approved and monitored its transportation and document preparation in New Delhi.

## PUBLIC AWARENESS

Public is the first to get the information, whenever there is an occurrence, followed by the police, and then comes the turn and role of the forensic experts. Accordingly, education about role of public in preserving the crime scene treasured with clues is vital. With that in mind, first of its kind in the country, important fairs in different parts of state visited by all folks have been planned and covered to disseminate forensic knowledge. From the year 2015 for the mass awareness about forensics, forensic tableau displayed during the State Level Republic Day Celebrations. Following exhibitions were organized:

Sr. No	Event	Period
1.	International Minjar Mela at Chamba	23-30.7.17
2.	International Dushehra Fair at Kullu	30.9.17 - 6.10.2017
3.	District Red Cross fair at Dharamshala	15.10.2017
4.	International Lavi Fair at Rampur Bushehar	11-14.11.16
5.	Displayed Forensic Tableau third time on State level Republic Day Celebration at the Mall, Shimla.	26.1.2018
6.	International Shivratri Fair at Mandi	15 – 21.2.2018



Forensics Exhibition at Distt. Red Cross Fair, Dharamshala, 2017



Forensics Exhibition at International Shivratri Fair, Mandi, 2018





**State Level Republic Day Celebrations: A View of Forensic Tableau**



**Memorandum of Understanding between DFS/HP and IIT Mandi**



**One District One Police Station (ODPS) - A Pilot Project launched for PS Sadar Shimla**



**Workshop on Audio Forensics at DFS/HP**



**Distribution of Awards to Forensic Experts**



**Seminar on Cyber Security at RFSL, NR**



**Workshop on ISO 17025: 2005 at DFS/HP**



**Workshop on Quality Management System at RFSL, NR**

EVENTS AT A GLANCE

## Who Wrote What....

Date	Name & Address	Phone	Date of Birth	Comments
17/6/2017	Prabuddh Saxena As Secy (Health)			The state FSL is an institution of repute and pride for the state. It has earned very high credibility both among the judicial courts and the common man. The scientists are qualified and well equipped. It has grown over years and is on march for a glorious future. (2) (2)
4.8.2017	A.K. Ganjoo, Director/Chief Forensic Scientist, District State of Forensic Sci & Services, MHA, New Delhi	9815754105		I am highly impressed by this growing institution under the leadership of Dr. Arun Sharma. My best wishes to all the officers and staff of this lab & aldy. Keep it up.
15-09-17	K.P.S. KARTHA DIRECTOR, CFSL, HYDERABAD	9440729998		I had the opportunity to visit the laboratory, interact with officers and staff of S F Himachal Pradesh Jang during 13-16 Sept 2017. The laboratory has highly competent personnel, good infrastructure with they deliver services, exceeding the facility. laboratory has attained under the guidance of Dr Arun Sharma, Dir. Wish the lab. best of
Dec.13, 2017.	Justice V.K Sharma Chairman H.A. Administrative Tribunal, Shimla		8.8.1952	Discordance of Forensic Science Himachal Pradesh is rendering very important and significant contribution to the administration of justice of in the State under the able and inspiring leadership of its Director, Mr. Arun Sharma.
13/12/17	Ivan S. Sipareov Chief forensic officer ACUSTEK, Ireland	35314370135	30.06.1979	Dr Arun Sharma Director FSL arranged a superb meeting of forensic profession. It is my pleasure

## BUDGET ALLOCATIONS 2017-18

Funds in the department are received from the State Government and in the form of grants from the GOI. The Government has sanctioned plan and non-plan budget under different budget heads. However, there was shortfall in some budget heads. Accordingly, the matter regarding additional budget requirements was pursued at different levels and got sanctioned additional budget in non-plan budget head to the tune of Rs. 41. 83 Lacs . In the financial year 2017-18, new budget head had been opened raising the number of budget head 6 to 8. First time, Rs. one crore was received in the newly opened plan budget head of machinery and equipment.

### “2055-Police-116-Forensic Science-01-State Forensic Science Laboratory” (SOON) (Non-Plan)

**(Demand No. 7)**

**(Figures in Rupees)**

#### DIRECTORATE OF FORENSIC SCIENCE AND IT'S REGIONAL FSLs

Object Code/SOE	Sanctioned Budget + Additionality	State FSL H.P. Junga	RFSL Dharamshala	RFSL Mandi
01-Salary	5,67,95,000	3,24,95,000	1,18,00,000	1,25,00,000
02-Wages	3,59,000	1,61,250	97,750	1,00,000
03-Travel Exp.	5,80,000	3,29,000	1,51,000	1,00,000
05-Office Exp.	25,41,000	9,96,000	6,50,000	8,95,000
06-Medical Re-imb.	9,76,000	8,36,000	50,000	90,000
07-RentRate	1,000	-	-	-
09-Adv.& Publicity	2,19,000	1,94,000	25,000	-
10-Hosptl.& Ent.	40,000	18,200	5,600	16,200
12-PrfSer	60,000	-	-	60,000
15-Training	40,000	32,000	8,000	-
20-Other charges	6,33,000	4,86,500	1,46,500	-
21-Maintenance	20,12,000	17,83,000	2,04,000	25,000
27-Motor Purchase	1,000	-	-	-
30-Motor Vehicle	7,08,000	4,18,000	2,10,000	80,000
31-Mech. & Equipment	2,34,000	1,34,000	1,00,000	-
33-Material & Supply	43,00,000	39,82,000	1,38,000	1,80,000
64-Transfer Exp.	6,000	-	1,000	-
65-ReOsEmp	77,000	-	77,000	-
<b>Total</b>	<b>6,95,82,000</b>	<b>4,18,64,950</b>	<b>1,36,63,850</b>	<b>1,40,46,200</b>

### “MAJOR HEAD-2059-POLICE WORKS-01-OFFICE BUILDING-053-MAINTENANCE & REPAIR -41- MAINTENANCE OF VIGILANCE AND FORENSIC LABORATORY BUILDINGS”

**(Demand No. 7)**

Object Code/S.O.E.	Sanctioned Budget	Allotted to State FSL Junga	Allotted to RFSL Dharamshala	Allotted to RFSL Mandi
21-Maintenance	4,97,000	3,02,000	50,000	1,45,000
<b>Total</b>	<b>4,97,000</b>	<b>3,02,000</b>	<b>50,000</b>	<b>1,45,000</b>



**“UNDER HEAD-2216-HOUSING-06POLICE HOUSING-053-MAINTENANCE & REPAIR-02-MAINTENANCE OF RESIDENTIAL BUILDING OF STATE FORENSIC LABORATORY”**

**(Demand No. 7)**

Object Code/S.O.E.	Sanctioned Budget	Allotted to State FSL Junga	Allotted to RFSL Dharamshala	Allotted to RFSL Mandi
21-Maintenance	1,000	1,000	-	-
<b>Total</b>	<b>1,000</b>	<b>1,000</b>	<b>-</b>	<b>-</b>

**“UNDER HEAD-4055-CAPITAL OUTLAY ON POLICE HOUSING-00-211-POLICE HOUSING-05-CONSTRUCTION OF STATE FORENSIC LABORATORY”**

**(Demand No. 7)**

Object Code/S.O.E.	Sanctioned Budget	Allotted to State FSL Junga	Allotted to RFSL Dharamshala	Allotted to RFSL Mandi
21-Maintenance	1,12,50,000	1,12,50,000	-	-
<b>Total</b>	<b>1,12,50,000</b>	<b>1,12,50,000</b>	<b>-</b>	<b>-</b>

**07-2055-00-116-01-SOON-V –PLAN (MACHIENRY & EQUIPMENT)**

**(Demand No. 7)**

Object Code/S.O.E.	Sanctioned Budget	Allotted to State FSL Junga	Allotted to RFSL Dharamshala	Allotted to RFSL Mandi
31-M. & E.	75,00,000	63,15,000	2,35,000	9,50,000
<b>Total</b>	<b>75,00,000</b>	<b>63,15,000</b>	<b>2,35,000</b>	<b>9,50,000</b>

**HEAD “4216-CAPITAL OUTLAY ON POLICE HOUSING-01- GOVT. RESIDENTIAL BUILDING-106-GENERAL POOL ACCOMMODATION-18- CONSTRUCTION OF RESIDENTAIL BUILDING STATE FORENSIC LABORATORY”**

**(Demand No. 7)**

Object Code/S.O.E.	Sanctioned Budget	Allotted to State FSL Junga	Allotted to RFSL Dharamshala	Allotted to RFSL Mandi
37-Major-Work	37,50,000	37,50,000	-	-

**32-“MAJOR HEAD-4055”(MAJOR WORK- FORENSIC COMPLEX BUILDING)**

**(Demand No.32)**

Object Code/S.O.E.	Sanctioned Budget	Allotted to State FSL Junga	Allotted to RFSL Dharamshala	Allotted to RFSL Mandi
37-Major-Work	50,00,000	50,00,000	-	-
<b>Total</b>	<b>50,00,000</b>	<b>50,00,000</b>	<b>-</b>	<b>-</b>

**32-2055-00-789-01-SOON-V –PLAN (MACHIENRY & EQUIPMENT)**

**(Demand No. 32)**

Object Code/S.O.E.	Sanctioned Budget	Allotted to State FSL Junga	Allotted to RFSL Dharamshala	Allotted to RFSL Mandi
31-M. & E.	25,00,000	25,00,000	-	-
<b>Total</b>	<b>25,00,000</b>	<b>25,00,000</b>	<b>-</b>	<b>-</b>

**“2235-SOCIAL SECURITY AND WELFARE-60-OTHER SOCIAL SECURITY AND WERFARE PROGRAMMES-800-OTHER EXPENDITURES-94-PENSIONERS OF DIRECTORATE OF FORENSIC SCIENCE-SOON-V-NON PLAN (OBJECT CODE -06 MEDICAL REIMBURSEMENT)**

**(Demand No. 19)**

Object Code/S.O.E.	Sanctioned Budget	Allotted to State FSL Junga	Allotted to RFSL Dharamshala	Allotted to RFSL Mandi
31-M. & E.	50,000	4,000	-	-
<b>Total</b>	<b>50,000</b>	<b>4,000</b>	<b>-</b>	<b>-</b>

## DEPARTMENT REVENUE RECEIPTS

The Government has prescribed rates for examination of cases referred by the courts and other departments. Likewise, training fee structure has been prescribed by the Government for students of different Universities for internship training. The cases have been examined from other States as well. Also, students from Banaras Hindi University, Varanasi. (UP), M.D.U.,Rohtak (Haryana) Chandigarh University (Mohali), Panjab University, Chandigarh, M.D.U., Lakshmangarh Sikar, (Rajasthan), Lovely Professional University, Phagwara (Punjab), Deptt. of Forensic Science Govt. of Holkar Science College Indore (M.P.), Shoolini University, Solan , Amity University Noida (UP)

LNJN, NICFS, Delhi, Sh. Vaishanav Vidyapith Vishwavidyalaya Institute of Forensic Science Indore (MP), Dr. APJ Abdul Kalam, Institute of Forensic Science & Criminology, Bundelkhand University, Jhansi (UP), Sam Higginbottom University of Agriculture, Technology and Sciences, Allahabad, U.P. and MMU, Ambala were imparted trainings. The detail of revenue earned is given as under:

### DFS, HP

Case fee =Rs.2,68,000/-  
Training fee =Rs.1,71,700/-

### RFSL, NR, Dharamshala

Case fee = Rs. 10,000/-  
Training fee =Rs. 2,19,600/-

### RFSL, CR, Mandi

Case fee = NIL  
Training fee =Rs. 54, 300/-



Students from DDM college Hamirpur at RFSL, NR

**CASE STATISTICS****STATE FORENSIC SCIENCE LABORATORY  
(2017-18)**

<b>Name (Division)</b>	<b>Pending cases (1.4.17) (A)</b>	<b>Received cases (B)</b>	<b>Total (C=A+B)</b>	<b>Examined cases (31.3.18) (D)</b>	<b>Pending cases (1.4.18) (E=C-D)</b>
Biology and Serology	19	282	301	267	34
Chemistry and Toxicology	788	1960	2748	1817	931
Physics and Ballistics	33	259	292	249	43
Documents and Photography	122	359	481	273	208
NDPS	101	1005	1106	984	122
DNA	631	383	1014	209	805
<b>Total</b>	<b>1694</b>	<b>4248</b>	<b>5942</b>	<b>3799</b>	<b>2143</b>

**CASE STATISTICS****REGIONAL FORENSIC SCIENCE LABORATORY, NR  
(2017-18)**

<b>Name (Division)</b>	<b>Pending cases (01.04.17) (A)</b>	<b>Received cases (B)</b>	<b>Total (C=A+B)</b>	<b>Examined cases (31.03.18) (D)</b>	<b>Pending cases (01.04.18) (E=C-D)</b>
Biology and Serology	14	365	379	338	41
Chemistry and Toxicology	202	2235	2437	2226	211
Documents and Photography	17	172	189	144	45
<b>Total</b>	<b>233</b>	<b>2772</b>	<b>3005</b>	<b>2708</b>	<b>297</b>

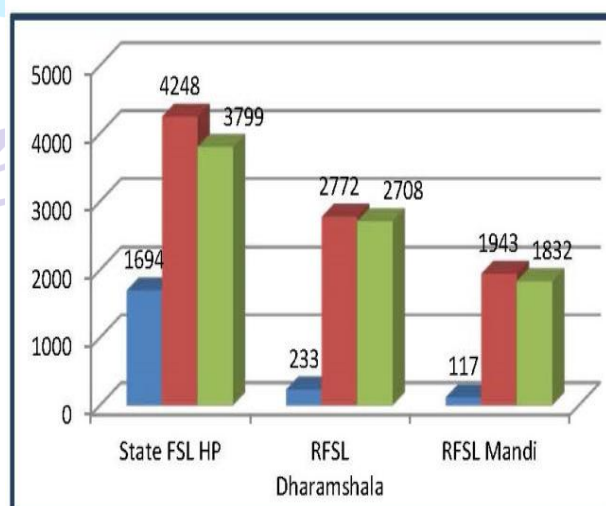
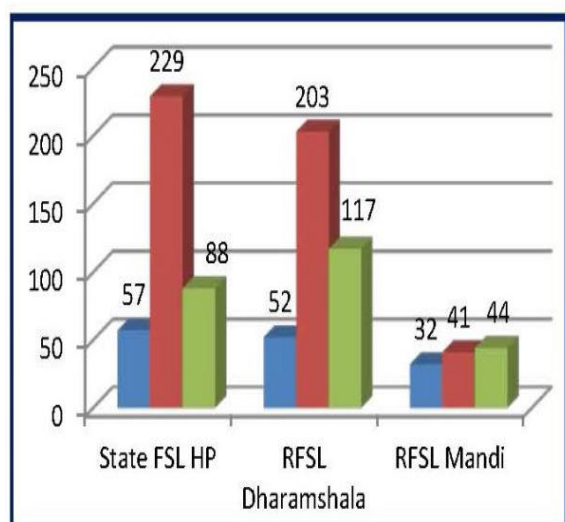
### CASE STATISTICS

#### REGIONAL FORENSIC SCIENCE LABORATORY, CR (2017-18)

Name (Division)	Pending cases (01.04.17) (A)	Received cases (B)	Total (C=A+B)	Examined cases (31.03.18) (D)	Pending cases (01.04.18) (E=C-D)
Biology and Serology	05	258	263	221	42
Chemistry and Toxicology	87	1475	1562	1416	146
Physics & Ballistics	25	210	235	195	40
<b>Total</b>	<b>117</b>	<b>1943</b>	<b>2060</b>	<b>1832</b>	<b>228</b>

#### COMPARATIVE STATISTICS OF STATE FSL & RFSLs

■ Court Evidences   
 ■ Lectures   
 ■ Scene of Crimes   
 ■ Previous Pending   
 ■ Receipt   
 ■ Disposal



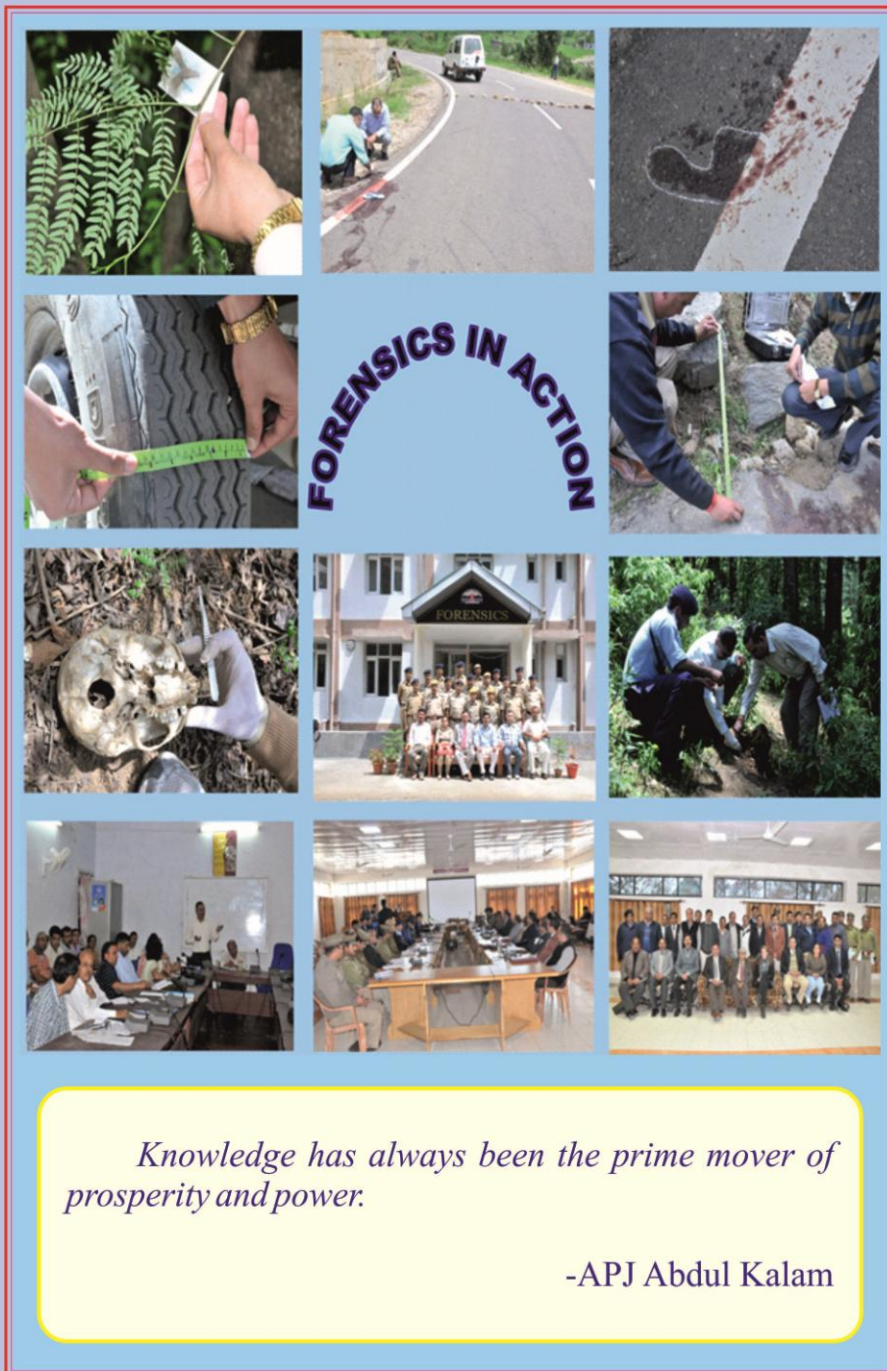
## FUTURE VISION

- ◆ National Forensics Academy
- ◆ NABL Accreditation
- ◆ District Mobile Forensic Units
- ◆ Restructuring the organization

\*\*\*\*\*

*---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)





A Complex of RFSL, NR, Dharamshala, (Front view)



A Complex of RFSL, CR, Mandi, (Front view)