

**INVESTIGATION SUPPORT UNITS
FOR POLICE STATIONS
Micro Mission 03
(Communication & Technology)**

1.0 INTRODUCTION/BACKGROUND

Crime investigation is an important task at Police Stations. Staff from the rank of Head Constable to Inspectors are entrusted with the task of crime investigation. These officers at Police Station do not possess specialized knowledge and skills in the use of forensic sciences and its tools as they are imparted only with basic training in use of forensic science. Moreover, there is no way for them to upgrade their skills and hence, the investigation suffers due to lack of expertise. Because of infirmities in the skills of field officers, the evidence is either not collected properly or not packed properly resulting in loss of its evidentiary value. It is, therefore, pertinent that forensic investigations are not left to the field officers but officers with background of forensic sciences are made available in the Police Stations to take up this job exclusively.

Presently, there is no facility with Investigators for sample collection at Police Station level, on the spot analysis and reporting. Samples are being collected and sent to the laboratories for analysis and reporting. Submission of reports takes time and such delayed reports lose the value in guiding the investigation. Deployment of Mobile Forensic Van (MFV) at district level equipped with tools and spot analysis and reporting capabilities will be of great help.

Use of Police Dogs in investigation is receding at fast pace since the dogs are not deployed properly at the scene of crime when the trails are fresh. This is because dogs are either available at few select Ranges or at State Hqrs. In such scenario, trails at scene of crime vanish by the time dogs reach. It, therefore, does not need emphasis that there is a case

for deployment of dogs at the level of Police Sub-Division.

Due to non-availability of quality dogs in the market and lack of sufficient organized training for police dogs, urgent need is felt to cater for Dogs Training School and breeding centres at state level.

If the Investigating Officers wish to seek guidance on forensic evidence collected, they do not have many experts to look upto. A state level toll free Forensic Helpline will provide the IOs the forum to seek this help.

2.0 OVERVIEW

2.1 Project Title

"Investigation Support Units for Police Stations".

2.2 Vision

- To provide expert help as Crime Scene Officer (CSO) at Police Station Level in collecting forensic evidence from crime scenes, analyzing and providing on-the-spot guidance on probable lines of investigation.
- To assure availability of Dog Squads and Mobile Forensic Van in each case which can very well provide valuable assistance in investigation.
- To provide on line and web-interactive assistance of forensic experts in best use of forensic aid in various crime investigations throughout the country.
- To establish Dog Training Schools and Breeding Centres in State Hqrs.
- To improve the quality of investigation.

2.3 Organizational Objective

- To improve the quality of investigation at all levels with the aid of best forensic

practices, tools and manpower.

- Project also envisages availability of dog squads for tracking and sniffing.

3.0 THE BUSINESS CASE

3.1 Purpose of the Business Case

Implementation of this project will improve the performance of Police Investigators at PS level, in terms of quality and also reduce the time taken for investigation as they will be benefited by the support of forensic science. The expert assistance available at the Crime Scene will help them in the collection of evidence and further analysis at laboratories can be more focused. It will reduce the pendency of cases in forensic labs as well as with courts and police. It is expected that a large number of cases presently returned as 'Case true no clue' can be successfully solved by use of these Aids.

3.2 Sponsor

MHA, Govt. of India, New Delhi.

4.0 CRITICAL ASSUMPTIONS AND CONSTRAINTS

- The information regarding number of Police Stations, Circles, Districts and Police Commissionerates have been collected from the Bureau of Police Research & Development publication "Data on Police Organisations in India" as on 1.1.2011.
- Crime figures have been collected from 'Crime in India' publication of National Crime Records Bureau, of MHA.
- It is assumed that the Wireless or wired connectivity is available on mobile vehicles for Data as well as Voice in the area where project will be implemented.

- The Forensic Science Laboratories will extend full help in training the technical manpower needed for the project. All the Central Government Institutes and all the Universities especially those who are already running Forensic Science Degree or Diploma Courses will also co-operate in providing necessary special courses, if necessary.

- On completion of projects the States will be willing to take upon themselves to continue the work and take the project objective down to last investigator, wherever he or she is located.

- State Forensic Labs will undertake training program for resource building with respect to Lab Assistants, CSO, Forensic Assistants, Forensic Scientists etc.

5.0 PROPOSED PLAN & IMPLEMENTATION STRATEGY:

5.1 Deliverables

1. Crime Scene Officer with Crime Investigation Kit at each police station.
2. Dog squad at each Sub-Division, Circle (where no Sub-Div. Exists) Distt.& Commissionerate Hqrs. Police Station.
3. Mobile Police Forensic van at each Sub-Division, Circle (where no Sub-Div. exists), Distt.& Commissionerate Hqrs.
4. State level Dog Breeding & Training Centre.
5. National Forensic Science Information Centre (24X7 Helpline) at State Hqrs..

5.2 Stakeholders

1. MHA

2. Directorate of Forensic Science
3. BPR&D
4. NCRB
5. Public
6. State Police
7. Criminal Courts
8. Universities, Forensic Training Institutes and Forensic Labs.

5.3 Related Projects : Nil

5.4 Work Plan:

A) Crime Scene Officer (CSO) with Crime Investigation Kit at Police Station Level

At each police Station a post of '**Crime Scene Officer**' (CSO) in the rank of Asst. Sub Inspector (ASI) is proposed to be created. Qualification of CSO will be BSc. Each Police Station requires at least one Crime Scene Officer (CSO) equipped with a Crime Investigation Kit consisting of crime scene preservation tools, clue handling tools, clue analysis tools and others (Details of items are enclosed as Annexure-A). With the help of this kit, the crime scene officer will be able to collect the samples promptly and do the spot analysis for promptness in investigation.

Police Stations with crime record of more than 500 cases per year will require two CSOs each.

(a) Task of CSO: The Crime Scene Officer (CSO) shall be mandated to invariably accompany Investigating Officer (IO) on first visit to the scene of crime and assist in collection of scientific evidence for the case. The States may frame their own rules depending on the emphasis they wish

to lay on different types of crimes to decide cases in which CSO visit will be mandatory and where visit could be at discretion of the Officer in charge of the police station. The CSO must be well versed with.

Recognition, documentation and recovery of physical evidence that may be collected from the scene of occurrence.

A general knowledge of framing proper questionnaire and of analysis to be performed in the lab as well as proper procedures in handling, collecting and packaging of articles of evidence recovered from the scene of crime and assured safe arrival at the lab.

(b) Functions of Crime Scene Investigations units :

- a. Search, Location, Enhancement and Identification of clues
- b. Collection of evidences
- c. Preservation
- d. Packaging
- e. Identification of the Lab where evidences have to be sent
- f. Forwarding the evidences to the Laboratory alongwith the proper questionnaire
- g. Documentation of physical evidence through Photography and Videography
- h. Presumptive tests
- i. Reconstruction of Scene of Crime along with notional or scale map

(c) Training of CSO

After being selected for employment,

the CSOs will have a probation period wherein they will go through an on the job training with a field training officer for three months. The experience and confidence to do the job will be gained in this phase of employment.

(d) Specialized Training

- By respective State FSLs
- By CFSLS
- By NICFS
- By Training Institutions of States and Centre
- By Specialised Agencies as NSG for Explosives,
- By various Universities as Gujarat Forensic Sciences University.
- Mandatory Periodic Training linked with incentive for best trainee

- Access to attend national level conferences and to present their views

(B) Dog Squad at Sub-Division/Circle (2617) and Districts/Commissionerate (864) :

It is proposed that one Dog Squad, consisting of two dogs each, shall be established at all Sub-Division and in Circles in the States where Sub-Division system does not exist (UP, Rajasthan & Uttarakhand). Dog squad will also be established at all District Headquarters and Commissionerate cities. At District & Commissionerate level one Dog squad, (consisting of 5 dogs) is proposed to be provided. A total of 3500 (approx.) Dog Squad will be required as shown below.

- It is proposed to have at least a pair of dogs for tracking and for explosive / narcotics detection, with two handlers at each circle. Each dog squad is to be

Sl. No.	Places to be provided with 2 dogs per dog squad	Nos.	No. of dog squad per location	No. of dog squad	Places to be provided with 5 dogs per dog squad	Nos.	No. of dog squad per location	No. of dog squad
1.	Sub-Div.	2022	1	2022	Distt. Hqrs.	692	1	692
	Circles in the States Where Sub-Div. system does not exist (UP, Raj., Uttarakhand)	595	1	595	Metro Commissionerates (Delhi, Bangalore, Chennai, Hyderabad, Kolkata & Mumbai)	6	8	48
					Non-Metro Commissionerates	31	4	124
	Total			2617	Total	37		864

trained in tracking of criminals, tracing of explosives and narcotics as per local requirement. Dog squad shall have communication link to police control room both from Mobile Forensic Van (MFV) and the kennel.

- The Committee on Dogs had recommended Dog squad at all Districts, Commissionerates, Sub-Divisions level Police Stations in the country. Five (5) dogs each at Distt. and Commissionerate level and two (2) dogs each at for Sub-Division level. It also recommended a better scale for Urban agglomerate.
- Details of Explosive/Narcotics Detection Kits both at Sub-Div., District and Commissionerate level PS is attached as Annexure-B

(C) Mobile Forensic Vans (MFV) at Sub-Division/Circle Level

All police Sub Divisions & Circles (where no Sub-Div. exists) shall be equipped with facilities for collection of forensic evidence, on the spot analysis and reporting by providing a MFV. Each van will have one Forensic Analysis Officer, one Lab Attendant besides the driver, 3 dog handlers and 2 dogs and Mobile Police Forensic Van, Forensic Investigation Tools, Cyber Forensic Tools and a Scientific Kit worth approx. Rs.6,83,645/- (Details of equipments attached at Annexure-C).

Van shall be equipped with communication link to parent forensic lab for digital exchange of data as well as voice link. Mobile Forensic Vans shall be at call through a centralized control and logging system for all police investigators in jurisdiction and neighborhood.

(D) Mini Forensic Lab at District and Commissionerate Level

At District and Police Commissionerate level a mini forensic lab has to be established for providing forensic support to District SSPs and these labs will be equipped with one Forensic Analysis Officer (SI rank), one Driver, six Dog Handlers along with 5 Dogs, one Dog Squad van and Cyber Forensics Tool Kit.

(E) State Level Dog Breeding and Training Centre

It is proposed to establish Dog Breeding and Training Centre at the State level for steady breeding, supply and training of the dogs. There are 69 Sub-Div./Circles and 20 Distts. On an average in a State taking the requirement of 2 dogs at each at Sub-Div./Circle and 5 dogs at Distt. level, a total of 300 dogs will be required per State. It is also proposed that 25 Training Centres in major States will be sufficient to serve the requirement of 35 States/UTs. Smaller States may be co-opted with geographically closer with major States.

a) Dogs proposed to be trained per year

It has been proposed to train 50 dogs (Fresh Training) and 200 dogs (Refresher training) per year.

b) Duration of Training

The proposed duration of fresh training and refresher training is shown in Appendix-1.

c) Location of Training Centre

To be selected by State Govt. and land to be made available free of Cost.

d) Policy of acquisition and disposal of Dogs

➤ Many states are not having their own Dog Breeding Centres. Pups of German Shepherd and Labrador Retriever and other breeds may be procured from kennels registered to Kennel Club of India in accordance with the provisions existing in the states. SOP for operational guidelines for dog squads and disposal/seeking out of dogs may be issued by State Govts. based on a Report of MHA Appointed Committee on Augmentation of Police Dogs and Related Issues prepared in 2008 by BPR&D

➤ In view of above, there is an urgent requirement of in-house Dog Breeding and Dog Training School in each State, so that huge requirement of Pups and Dogs training is met in an organized manner and on regular basis.

➤ Financial Implications-Infrastructure for Training Center- refer page 72 of Police Dog Commission Report. The rates are taken excluding charges for land acquisition and accommodation as it is the responsibility of the State. (Annexure-D)

➤ Vehicles for Training Center (page 63 of Police Dog Commission Report. The rates quoted is taken into account of relative price hikes.(Annexure E)

➤ Recurring Cost for Training Centre : Taking into accounts the standard scale of fuel requirement per month for operations (a) 200 litres per month for HMV, (b) 140 litres for MMV/LMV, and 15 litres for Motor Cycle, the total cost of fuel per training the centre per year is about 10.1 lacs. The expenses on 125 to

130 dogs comes around Rs. 62 lacs, which makes a total expenditure of Rs. 73 lacs per annum.

e) Posts recommended for Dog training School and financial implications involved for Dog Training Centre.

- The requirement of manpower and functional justification of Dog Training Centre is enclosed as Annexure-F.

- The financial implication involved for Dog Training Centre is enclosed as Annexure-G.

(F) State Level Forensic Science Information Centre (24x7 Helpline) at State Hqrs.

As of now the investigators have to depend on their own knowledge acquired many years back or take help of another colleague whose knowledge need not be better than his own. There is no established system through which, the investigators could consult an expert either before proceeding to a scene of crime or while at the scene of crime. The investigator needs guidance on what to look for in a particular crime case, where to look it and if found what would be the best way to collect it. For this purpose the project suggests the establishment of a State Level Forensic Science Information Centre at Forensic labs of State HQrs which is proposed to be manned with one Sr. Forensic Scientist, one Forensic Scientist, 3 Sr. F/ Assistants, 7-F/Assistants and 3 Lab Assistants. The qualification of Sr. Forensic Scientist will be Ph.D/MSc, MCA, MSc in Criminology/Forensics with minimum experience 5 years in

policing. For Forensic Scientist it will be MSc, BCA, BSc Forensics with minimum experience 3 years in policing. For Senior Forensic Assistant, Forensic Assistant, it will be BSc and for Lab Assistant it will be 12th with Science. The NFSCI will be entrusted with following :

- The Center shall also undertake the training and refresher courses for the scientists.
- Call center support shall also be provided to the field officers, by the center.
- Facility to have online support from State and Central Forensic Science Laboratories is proposed.
- SFSL and CFSL to have 24 X 7 helpline and an officer of Reporting Level should be dedicated to provide support
- Access to data base of various exhibits, criminals maintained by Central and State Government agencies.
- SFSL and CFSL to have secured website for providing tips (video tutorials)

in the identification, collection, packing and transportation of various physical exhibits

- Mobile personnel should be equipped with Lap Top, Data Card and higher-end Mobile phones for best communication .
- Due to close geographical proximity of various States & UTs, a Total of 25 NFSIC in major states is a feasible solution.

Job profile of Forensic Scientist is given in Annexure-H.

6.0 Manpower Breakup and Financial Implications

(a) Level-1: Crime Scene Officer with each Police Station

There are 13984 Police Stations across the country (Annexure- I). Each Police Station requires one Crime Scene Officer (CSO) who has to be equipped with a Scientific Kit worth Rs. 70,000/- (Details of Equipments attached at Annexure-J).

There will be one CSO in each Police Station where yearly crime rate will be below 500 and two CSOs where yearly crime rate is above 500.

Item	Numbers	Expenditure	Total Expenditure
Manpower	13984	2.52 Lakh / Year (Salary)	352 Crores
Additional	25 %*		88 Crores
Equipment	13984 Kits	70,000/- per kit	97 Crores
Total			537 Crores

* Additional 25 % is estimated manpower with regard to support to the Police Stations where the crime rate is high.

(b) Level-2: Sub-Division and Police Circle level PS (2617) :

Total number of Police Sub-Division 2022+595 Circles* where Sub-Div. System does not exist = 2617 (* UP-378+Rajasthan-182+Uttarakhand-35=595) (Annexure-I)

Items	Scale	Amount (In Crores)
Manpower	Forensic Analysis Officer* @1 (Total 2617 Posts) @2.85 Lakh/Yr	75
	Lab Assistant @1 (Total 2617 Posts) @2.23 Lakh/Yr	58
	Driver@1 (Total 2617 Posts)@1.70 Lakh/Yr	44
	Dog Handler@3 (1Sniffer, 1 Tracker & Support) Total (2617x3=7851 Posts)@2.23 Lakh/Yr	175
	Total Man Power (Total 15702 Posts)	352
Equipments	Medium Vehicle for movement of Dogs @8 Lakhs +Cost of Amendments @5 lakhs= 13 lakhsx2617	340
	Cost of Forensic Eqpts@6.8 Lakhsx2617	178
	Dogs@2 each costing 40,000/- i.e Rs.80,000x2617	21
	Total	539
Recurring Cost	Fuel and Vehicle Maintenance etc.@84,000 PA for each MFV x2617	21
	Ration @1.00 lakh PA / Dog & contingency(telephone / medicines / play equipment) per dog squad Rs. 1 Lakhx2617	26
Infrastructure	20 Lakhs (Kennel & Accomodation for Dog Handler). 20 LakhX2617	523
	Total :	1461

*Educational Qualifications, functional responsibility of posts and details of Infrastructure attached as Annexure- K

(c) Level-3 : District & Police Commissionerate level PS (864):

Police Distts.(692) + Police Commissionerate Cities-37 (Annexure-L) Out of 37 cities, Metro Cities like Delhi, Bangalore, Chennai, Hyderabad, Kolkata & Mumbai @ 8 P.S. i.e. $6 \times 8 = 48$ and rest 31 Commissionerate Cities @ 4 P.S. each i.e. $31 \times 4 = 124$; $48 + 124 = 172$. $692 + 172 = 864$.

Items	Scale	Amount (In Crores)
Manpower	Forensic Analysis Officer@1 i.e. 864×2.85 Lakh/Yr*	25
	Driver@1 i.e. 864×1.70 Lakh/Yr	14
	Dog Handler@6 (2 Sniffer, 3 Tracker & 1 Support) Total ($864 \times 6 = 5184$ Posts)@2.23 Lakh/Yr	116
	Total Man Power (Total 6912 Posts)	155
Equipments	Medium Vehicle for movement of Dogs @13 Lakhs with Amendments i.e. 13×864	112
	Cost of Forensic Kit Eqpts@9.78 Lakhsx864**	84
	Dogs@5 each costing Rs.40,000/-each i.e. $5 \times 40,000 = \text{Rs.}2 \text{ lakh} \times 864$	17
	Total	213
Recurring Cost	Fuel and Vehicle Maintenance etc.@1.20 lakh PA for each MFV x864	10
	Ration @2.50 lakh PA / Dog & contingency(telephone / medicines / play equipment) per dog squad Rs. 2.5 Lakhx864	21
Infrastructure	50 Lakhs (Kennel & Accommodation for Dog Handler. $50 \text{ Lakh} \times 864$	432
	Total :	831

*Educational Qualifications, functional responsibility of posts & details of Infrastructure enclosed as Annexure- M

**Details of Forensic Kit enclosed as Annexure-N

(d) Level-4 : State Level DOG Breeding and Training Centre

Requirement of manpower for Dog Training Centre		For 1 State (136 posts)	For 25 States/UTs
1.	Financial implication for requirement of manpower for Dog Training Centre (Total 136 Posts)	3 Cr	75 Cr
2.	Financial implication of infrastructure for Dog Training Centre **	7.52 Cr	188 Cr
3.	Financial implication of vehicles for Dog Trg Centre	0.70 Cr	17.5 Cr
4.	Recurring Cost for Dog / Vehicle Management/ telephone charges	0.73Cr	18.25 Cr
Total		11.95 Cr.	298.75 Cr

** While taking the cost of infrastructure it has been presumed that the land estimated at Rs.6 Cr.will be provided by State/UT. Hence cost of land not included.

(e) Level-5 : National Forensic Science Information Centre (24x7 Helpline) at State Hqrs.

Requirement of manpower for NFSIC		For 1 State (15 posts)	For 25 States/UTs
1.	Financial implication for requirement of manpower for NFSIC (Total 15 Posts)	0.34 Cr	8.5 Cr
2.	Financial implication of infrastructure for NFSIC	0.96 Cr	24.0 Cr
Total		1.30 Cr.	32.50 Cr

The entire team will be of 15 personnel. Details of salary for manpower given at Appendix- 2 and will be on duty round the clock to man the Help Desk/ Information Cell. They will also man the training division in NFSIC for providing training to investigation officers for resource buildings.

The space requirement and expenditure on infrastructure and equipments required is mentioned at Appendix-3. There shall be a Call Centre, Training Room and other offices which will need the proper space.

7. Duties of Crime Scene Officer / Duty Description for the Crime Scene Investigator / Evidence Recovery Officer

In the Scientific community the crime scene investigator or **Evidence Recovery Officer** should be accepted as a forensic specialist. His/ Her speciality should be considered a professional organized step by step approach to the processing of a crime scene.

STEPS :

- Extensive study, Training, and Experience in crime scene investigations is needed for the investigator to be proficient in the field.

8. SUMMARY OF FINANCIAL IMPLICATIONS:

Total project cost of the whole of India is **Rs. 3160 Crores** as shown below.

<u>Expenditure - Total Project</u>				
Item	Recurring	Non-Recurring	Infrastructure	Total In Crores
PS (level-1)	440	97	0	537
Sub Div./Circle (Level-2)	399	539	523	1461
Districts/Commissionerate (Level-3)	186	213	432	831
State HQrs Dog Breeding & Training Centre (Level 4)	93.25	17.50	188	298.75
State Hqrs. NFSIC (Level-5)	8.50	-	24.0	32.5
Total	1126.75	866.50	1167	3160.25

1. The project has to be implemented in five phases as given below.

Phases	Police Station	Sub Div. /Circles	Districts/ Commis-sionerates	State
Phase I	10 %	10 %	10 %	20 %
Phase II	20 %	20 %	20 %	20 %
Phase III	20 %	20 %	20 %	20 %
Phase IV	25 %	25 %	25 %	20 %
Phase V	25 %	25 %	25 %	20 %

- In Phase-I, 10% of Police Stations, Sub-Div. and Districts have to be provided with required man power and infrastructure for forensic support.
- In Phase-II, 20% of Police Stations, Sub-Div. and Districts have to be provided with requisite infrastructure and facilities.
- In Phase III, 20% of Police Stations, Sub-Div. and Districts have to be covered.
- In the phase IV, 25 % of Police Stations, Sub-Div. and Districts have to be covered.
- In the phase V, 25 % of Police Stations, Sub-Div. and Districts have to be covered.
- In all the five phases 20% of the States have to be provided with DOG Training Institutions and NFSICs.

2. Cost of project in different phases has been given in shown below table.

Phases	Police Station	Sub-Div./Circles	Districts/ Commis-sionerates	State	Total (In Crores)
Phase I	53.7	146.10	83.10	66.20	349.10
Phase II	107.4	292.20	166.20	66.20	632.00
Phase III	107.4	292.20	166.20	66.20	632.00
Phase IV	134.25	365.25	207.75	66.20	773.45
Phase V	134.25	365.25	207.75	66.20	773.45
Total	537.0	1461.0	831.0	331.0	3160

Govt. of India should release the money to states for implementation of this project in five phases as given in above table.

Recurring expenditure on manpower for first five years should be borne by GOI. After 5 years states shall pay salaries etc.

Annexure-A

Crime Scene Investigation Kit

Content of Kit :-	
1.	SPRAY Marking Paint-01
2.	Barrier & Warning Tape -01
3.	Digital Distance Measuring Device -01
4.	Laser Light Pen -01
5.	Compass-01
6.	UV Light-01
7.	Elimination Kit (Pad & Slips)-01
8.	Folding Scale -01
9.	Rigid Photo Scales (white)-01
10.	Rigid Photo Scales (Grey)-01
11.	Large Type Torch (Maglite) with rechargeable batteries & charger-01
12.	Pocket Knife-01
13.	Swiss Knife 6 Blade-01
14.	Magnifier (4"mm dia)-01
15.	Vernier Gauge (Digital) -01
16.	Ratchet Screwdriver set with assorted heads -01
17.	Junior Hacksaw-01
18.	Ridge Counter -01
19.	Scissors -01
20.	Glass Cutter -01
21.	Metal Mirror -01
22.	Magnet (Pen type)-01
23.	Set of Forceps -01
24.	Nail File, -01
25.	Scalpel with Blades -01
26.	Disposable Scalpels -03
27.	Rubber Gloves -02
28.	Disposable Gloves -10
29.	Pack of Assorted Evidence Labels -01
30.	Molded Plastic Evidence Containers (small) -06
31.	Set of Evidence Bags -01
32.	Fire Tins (small)-01
33.	Adhesive Sheets -10
34.	Crayon - blue & Red -01
35.	Set of Permanent markers Pens-01
36.	Soap Towel-01
37.	Dust Mask, Shoe Cover & Head Covers (5 each)-01
38.	Electric Test Master Screwdriver -01
39.	Steel Measuring tape -01
40.	Pliers -01
41.	Wire Cutter -01

ANNEXURE-B**Details of Explosive Detection Kit**

Contents (test ability) of the kit- EXPLOSIVE DETECTIORS (100 TEST Kit)	
1.	TNT / PETN / RDX / NITRATE - 60 Test
2.	TATP/ HMTD - 10 Test
3.	CHLORATE/ BROMATE - 10 Test.
4.	UREA NITRATE - 10 Test.
5.	AMMONIUM NITRATE - 10 Test.

Details of Narcotic Detection Kit

Contents (test ability) of the kit-NARCOTIC DETECTION KIT (100 TEST Kit)	
1.	General Screening /Heroin - 40 test.
2.	Methamphetamine / Amphetamine - 05 Tests
3.	Marijuana/Hashish - 10 tests
4.	Ecstasy (MDMA) - 05 Tests.
5.	Cocaine/Crack - 05 Tests.
6.	LSD - 05 Tests.
7.	GHB - 05 Test.
8.	Ketamine - 05 Tests.
9.	Flunitrazepam /BenzodiaZepines - 05 test.
10.	Ephedrine 05 test.
11.	Barbiturates- 10 tests.

ANNEXURE-C**Forensic Investigation Tools for Mobile Van at Sub-Divisional +
Police Circle Level (Nos. 2617)**

Sl.No.	Kits	Unit	Cost in Rs.
1.	Crime Scene Protection Kit		25,000
2.	Electrostatic Dust Mark Lifting Kit		30,000
3.	Gun Shot Residue Analysis Kit		30,000
4.	Arson Investigation Kit		20,000
5.	Laser distance & Direction Measurement Unit		5,000
6.	Explosive Detection Kit		20,000
7.	Finger Print Developer Kit		30,000
8.	Blood Detection Kit		20,000
9.	Semen Detection Kit		15,000
10.	Narcotic Detection Kit		5,000
11.	DNA Sample Detection Kit		20,000
12.	Evidence Collection & Packing Kit		17,000
13.	Lap Top With Data Card		70,000
14.	Cyber Check Suit of CDAC		36,645
15.	Call Analyser		1,20,000
16.	Hard Disc Cloning Machine		1,00,000
17.	Tele-Forensics (Video Camera & Data Card)		50,000
18.	Search Light Kit with halogen lamp		5,000
19.	Digital Camera		10,000
20.	Crime Scene Sketch Kit		15,000
21.	Under Search Video Display Unit		35,000
	Total (Approx. Cost)		6,83,645

Total expenditure involved nation wide i.e. total Police Sub-Div.+Police circles i.e. (2022+595*=2617)

(* UP-378+ Rajasthan-182+ Uttarakhand-35= 595 Circles)

ANNEXURE -D**Financial Implication of Infrastructure for Training Centres of 250 Dogs for BSF/ CRPF/CISF/ITBP/SSB (125-130 dogs at one point of time)**

S/No.	Name of Building	Requirement	Approx cost
1.	Kennel for adult dogs	130 Nos.	1,30,00,000/-
2.	Quarantine Kennels	30 Nos.	30,00,000/-
3	Isolation Kennels	10 Nos.	10,00,000/-
4	Grooming Shed	02 Nos.	10,00,000/-
5	Lecture Hall	02 Nos.	10,00,000/-
6	Adm Block	1 No.	10,00,000/-
7	Store as per std pattern	04 Nos.	10,00,000/-
8	125 KV Gen with Gen Room for main campus	1 Set	12,00,000/-
9	40 KV Gen set with Gen Room for quarantine Kennels	1 Set	5,00,000/-
10	Trg office with 2 rooms with toilet block	1 No.	4,00,000/-
11	Vet Hospital	1 No.	15,00,000/-
12	Dog Mess for adult dogs	2 Nos.	6,00,000/-
13	Tradesmen Shop	1 Set	4,00,000/-
14	MT Garage for 9 Vehicles	1No.	10,00,000/-
15	120 Men barrack with toilet block, Cook House, Dinning hall	2Nos.	1,30,00,000/-
16	30 Men barrack with toilet block, Cook House, Dinning hall for quarantine Kennels	1No.	20,00,000/-
17	Recreation hall	1 No.	10,00,000/
18	Sos Mess for 10 SOs	1 No.	15,00,000/
19	Family accommodation	Type -v- 02	14,00,000/
		Type-IV-02	12,00,000/
		Type-III-17	10,00,000/
		Type-II-15	85,00,000/
		Type-I-15	75,00,000/
20	Compound wall with guard room for main campus	4000 meters	25,00,000/
21	Land	40 Acres	6,00,00,000/
		G/Total Rs:	13,52,00,000/-

ANNEXURE-E**Financial Implication of Vehicles for Training Centres
of BSF/CRPF/CISF/ITBP/SSB**

S/No	Rank/Pay Scale	No. of Vehs	Cost each Veh	Total cost of Vehs (Nonrecurring)
1	Light Vehicle	03	Rs. 4,50,000/-	13,50,000/-
2	Heavy Vehicle	03	Rs. 9,00,000/-	27,00,000/-
3	Water Tanker	01	Rs. 8,00,000/-	8,00,000/-
4	Medium Vehicle	01	Rs. 8,00,000/-	8,00,000/-
5	Dog Van AC fitted	01	Rs. 7,00,000/-	Rs. 7,00,000/-
6	Motor Cycle	01	Rs. 50,000/-	Rs. 50,000/-
		10		64,00,000/-

(Approx. Rs. 70,00,000/- keeping in view relative price hikes)

ANNEXURE-F**Manpower, Functional Justification of Dog Training Centre.**

Sl. No.	Post	Manpower required	Functional justification
1.	CVO(SG)/Comdt(Vet)	01	Officer In-charge of institution.
2.	CVO/2-I/C(Vet)	01	Second-in-command. In-charge of accounts matters and regimental funds of training institution.
3.	SVO/DC(Vet)	01	Adjutant of training institution and in-charge of training.
4.	VAS/AC(Vet)	01	QM/MTO, training supervisor and in-charge of VeterinaryHospital.
5.	Insp/GD	03	Training instructors and training supervisors.
6.	SI/GD	10	SI (Adjutant), Training instructors and various assignment like regimental institutions/Kote/Mess etc.
7.	SI(Min)	01	Official work (Establishment nature)
8.	ASI(M)	02	Official work (Accounts nature)
9.	ASI(Steno)	01	Steno of CVO (SG)/Comdt (Vet)
10.	Ct/Daftry	01	To assist main office of training institution.
11.	SI (Vet/Compdr)	01	For VeterinaryHospital
12.	HC/Vet	03	For Veterinary Hospital & Quarantine Kennels
13.	HC/Radiographer	01	For receiving/transmitting of radio messages.
14.	HC/Lab Tech	01	For VeterinaryHospital
15.	HC (GD)	35	For performing various duties like BHM, BQMH, CQMH, Training instructors (Platoon Commanders, Squad Commanders and Asstt Squad Commanders, Mess NCOs etc)

16.	Ct/ (GD)	26	For performing various duties like camp security duties, office runners, security-aides, Mess Cts and other various administrative duties.
17.	HC/Dvr	03	I/C MT Section and Drivers
18.	Ct/Dvr	08	Driving of vehicles
19.	KM	16	Maintenance of Kennels
20.	Cook	04	For ORs Messes and Dog Mess
21.	WC	04	For ORs Messes and Dog Mess
22.	SWPR	03	For maintenance of camp area and training area.
23.	B/B	02	For hair cutting of staff & trainees.
24.	W/M	02	For pressing clothes of staff and trainees
25.	Ct/Electrician	01	
26.	Tailor	01	For repairing clothes of staff and trainees
27.	Cobbler	01	For repairing shoes of staff and trainees
28.	Carpenter	01	For Carpentry Work
29.	Painter	01	For painting of vehicle, sign board of training grounds/area etc
	Total	136	

ANNEXURE-H

Job Profile of Forensic Scientist

Five Forensic Scientists in each branch viz.

- Ballistics,
- Handwriting / Document examination / Fingerprint
- Fluid Examination (Blood etc)
- Narcotics
- Computer / Cyber
- Forensic Scientist must be able to supervise and manage the forensic unit and coordinate their work.
- Should get involved or directing the complicated or major crime scene examinations.
- Prepare work schedules; determine work procedures and methods to expedite workflow.
- Test by using laboratory examination of evidence and sophisticated computer system to check whether the forensic unit is performing exact criminal identification.
- Should be able to prepare budget based on the standard guidelines, prepare, research and manage annual budget of the forensic department and analysis and monitor the expenditures and revenues.
- Should ensure consistent interpretational and application of rules, procedures, policies, and laws.
- Should demonstrate and teach about the preparation to others and present the expert testimony.
- Should ensure the proper and professional preparation of presentation and court displays of evidence.
- Should be able to provide expert guidance, information and instruction to system users, staff and many others regarding forensic science.
- Should be able to respond to request for a variety of information which are generated by other agencies.
- Should assure, formulate and develop complete implementation of goals and objectives of forensic unit.
- Should be able to work with some other departmental groups, federal agencies and other agencies.
- Should ensure continual operation and system efficiency by analyzing, developing, determining and recommend improvements.
- Should have good understanding of the forensic science practices to include fingerprint, entomology, photographs, botany, chemistry, handling DNA evidence procedures, processing evidence by using various chemical methods.
- Should have good communication skills

ANNEXURE -H (CONTD.)**Job Profile of Forensic Scientist (Cyber Forensic)**

- Should know how to acquire, analyze, examine, and interpret electronic content so that it's incontestable in court - or at least as resistant as possible to being contested.

Job Profile of Lab Assistant

- Assisting Forensic Assistant in Recording findings and collecting trace evidence from scenes of crime or accident.
- Assisting Forensic Assistant in Primary Analysis of samples such as hair, body fluids, glass, paint and drugs.
- Assisting Forensic Assistant Applying various techniques as appropriate
- Assisting Forensic Assistant in Preservation and then preparation of samples without losing its evidential value for sending to Regional Forensic Lab for further analysis
- Assisting Forensic Assistant Giving evidence in court

Assisting Forensic Assistant in carrying out various preliminary level test

ANNEXURE-I**Number of Police Zones, Ranges, Districts, Sub-Divisions, Circles and Police Stations - as on 1.1.2011**

Sl. No.	States / UTs.	Police Zones	Police Ranges	Police Distts.	Police Sub-Div.	Police Circles	Police Stations
1	Andhra Pradesh	6	10	29	164	446	1679
2	Arunachal Pradesh	1	3	17	9	18	72
3	Assam	0	6	28	28	48	324
4	Bihar	4	11	40	108	209	887
5	Chhattisgarh	0	5	22	82	0	397
6	Goa	0	0	2	8	0	25
7	Gujarat	0	7	33	94	85	555
8	Haryana	0	4	21	47	0	262
9	Himachal Pradesh	0	3	13	26	0	102
10	Jammu & Kashmir	2	7	25	39	26	187
11	Jharkhand	4	7	26	31	123	425
12	Karnataka	0	6	30	130	230	905
13	Kerala	2	4	17	49	192	459
14	Madhya Pradesh	11	15	50	143	0	996
15	Maharashtra	35	8	37	384	0	1054
16	Manipur	3	4	9	25	0	80
17	Meghalaya	1	2	7	8	19	36
18	Mizoram	0	2	8	16	0	38
19	Nagaland	1	3	11	16	9	57
20	Orissa	0	8	34	111	0	580
21	Punjab	4	7	25	90	0	376
22	Rajasthan	0	8	38	0	182	757
23	Sikkim	1	1	4	11	0	28
24	Tamil Nadu	4	12	33	245	461	1296
25	Tripura	1	2	4	22	29	70
26	Uttar Pradesh	0	18	71	0	378	1504
27	Uttarakhand	0	2	13	0	35	125
28	West Bengal	3	8	23	65	87	426
29	A&N Islands	0	0	3	5	1	22
30	Chandigarh	0	0	1	3	0	11
31	D&N Haveli	0	0	2	0	0	2
32	Daman & Diu	0	0	2	2	0	5
33	Delhi	0	3	11	54	0	184
34	Lakshadweep	1	1	1	1	1	16
35	Puducherry	0	0	2	6	15	42
	All India	84	177	692	2,022	2,594	13,984

ANNEXURE-J**Details of Crime Investigation Kit at Police Station Level (Nos. 13984)**

Sl.No.	Kits	Unit	Cost in Rs.
1.	General Crime Scene Investigation Kit	1	55,000
2.	Search Light Kit with halogen lamp	1	5,000
3.	Digital Camera	1	10,000
4.	Total (Approx. Cost)		70,000

ANNEXURE-K

Educational Qualifications of Forensic Analysis Officer & Lab Attendant

- Qualification of Forensic Analysis Officer (SI rank) will be MSc., BCA, BSc Forensic, minimum experience 3 years in policing.
- For Lab Attendant (PC rank), the educational qualification shall be 12th with Science background.

Job Profile of Forensic Analysis Officer

- Recording findings and collecting trace evidence from scenes of crime or accident.
- Primary Analysing samples such as hair, body fluids, glass, paint and drugs.
- Applying various techniques as appropriate.
- Preservation and then preparation of samples without loosing its evidential value for sending to Regional Forensic Lab for further analysis.
- Giving evidence in court.

Job Profile of Lab Assistant

- Assisting Forensic Analysis Officer in recording findings and collecting trace evidence from scenes of crime or accident.
- Assisting in primary analysis of samples such as hair, body fluids, glass, paint and drugs.
- Assisting in applying various techniques as appropriate.
- Assisting in preservation and then preparation of samples without loosing its evidential value for sending to Regional Forensic Lab for further analysis.
- Assisting in giving evidence in court.
- Assisting in carrying out various preliminary level test .

Infrastructure

Infrastructure of 70 Sqm well furnished as kennel and accommodation for Dog Handlers. (As per standard Govt. Norms - 1 Sqm costs Rs. 24,000/-)

Area	Dimension	
Dog Kennel (2 Dogs)		Rs. 4,00,000
Barrack/Mess/Store & Forensic Lab	55 Sq. Mtrs	Rs.16,00,000/-
Total :		Rs. 20,00,000/-

ANNEXURE-L
Table 3.12 - Sanctioned Strength of Civil Police in Metro Cities with Police Commissioner System
(Rank-Wise) - as on 1.1.2011

Sl. No.	Name of the City	No. of P.S.	DGP/SPDG/ADDI DGP	IGP	DIGP	AIGP/SSP/SP/COM	Adtl. SSP/ Dy.COM	ASP/ Dy.SPIA/ COM	INSP.	S.I.	A.S.I.	Head Const.	Const.	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
1	Ahmedabad	38	NA	NA	NA	NA	NA	NA	108	609	1,364	2,315	9,278	13,674
2	Amravati*	9	0	0	1	0	3	7	48	77	167	325	1,233	1,861
3	Aurangabad*	12	0	1	0	0	3	7	59	111	307	617	1,841	2,946
4	Bangalore City	149	1	3	2	15	0	50	203	839	1,107	3,335	8,782	14,337
5	Baroda	17	NA	NA	NA	NA	NA	NA	35	222	449	674	1,870	3,250
6	Bhubaneswar	45	0	1	1	5	8	24	64	219	316	322	2,465	3,425
7	Chennai City	89	1	2	4	0	91	0	320	1,233	0	1,877	10,425	13,953
8	Chennai Suburban	39	0	1	0	0	5	36	130	320	0	910	4,110	5,512
9	Coimbatore City	28	0	1	4	0	2	16	45	111	0	862	692	1,733
10	Cyberabad	58	0	1	0	5	8	19	119	441	221	672	3,006	4,492
11	Delhi	184	11	20	19	46	32	290	1,257	4,958	6,521	18,921	41,483	73,558
12	Kochi City	22	0	0	0	1	0	16	18	112	73	399	2,108	2,727
13	Fairfield	36	2	6	10	0	0	0	58	160	404	704	3,562	4,906
14	Gurgaon	31	2	6	10	0	0	0	71	159	410	704	3,720	5,082
15	Hubli-Dharwad City	20	0	1	0	0	2	0	28	46	109	354	1,128	1,668
16	Hyderabad	88	1	3	3	11	16	45	250	769	500	1,431	6,092	9,121
17	Kolkata	48	2	4	7	20	88	484	3,131	2,685	7	0	12,317	18,745
18	Kozhikod	17	0	0	0	1	0	13	13	96	60	330	1,545	2,058

Sl. No.	Name of the City	No. of P.S.	DGP/SPDG/ADDI DGP	IGP	DIGP	AIG/SSP/SP/COM	Addl. SSP/Dy.COM	ASP/Dy.SPIA-COM	INSP.	S.I.	A.S.I.	Head Const.	Const.	Total
19	Madurai City	33	0	1	3	0	0	0	11	43	0	87	3,206	3,351
20	Mangalor City	17	0	0	1	2	0	4	20	36	64	216	744	1,087
21	Mumbai City*	91	1	4	12	0	38	150	2,023	3,062	4,082	8,717	29,081	47,170
22	Mysore City	20	0	0	0	2	0	6	26	57	118	495	1,053	1,758
23	N.Mumbai*	16	1	0	0	0	6	9	241	157	202	951	2,559	4,126
24	Nagpur City*	26	1	1	4	0	9	19	275	325	603	1,788	4,724	7,749
25	Nasik*	11	0	1	0	0	4	8	96	87	174	463	1,628	2,461
26	Pune*	33	1	1	4	0	10	23	300	400	733	1,743	5,582	8,797
27	R.Mumbai*	17	0	1	0	0	2	8	87	136	352	880	2,442	3,908
28	Rajkot	10	NA	NA	NA	NA	NA	NA	14	85	186	294	1,015	1,594
29	Salem City	15	0	1	2	1	10	0	24	62	0	560	391	1,051
30	Solapur*	7	0	0	1	0	3	7	51	60	141	366	1,077	1,706
31	Surat	24	NA	NA	NA	NA	NA	NA	37	241	600	967	2,952	4,797
32	Thane*	33	1	1	4	0	10	27	364	421	639	1,578	6,146	9,191
33	Thiruvananthapuram	21	0	0	1	1	0	19	26	148	95	531	2,662	3,483
34	Tirunelveli City	10	0	1	1	1	9	0	20	50	0	546	89	717
35	Tiruchirapalli City	14	0	1	2	1	11	0	26	65	0	778	435	1,319
36	Vijayawada	40	0	0	1	2	0	6	39	121	113	272	1,288	1,842
37	Visakhapatnam	42	0	1	0	3	3	7	58	169	128	339	1,587	2,295
	Total	1,410	25	65	97	117	373	1,300	9,695	18,892	20,245	56,323	1,84,316	2,91,450

ANNEXURE-M

Educational Qualifications of Forensic Analysis Officer & Lab Attendant

- Qualification of Forensic Analysis Officer (SI rank) will be MSc., BCA, BSc Forensic, minimum experience 3 years in policing.
- For Lab Attendant (PC rank), the educational qualification shall be 12th with Science background.

Job Profile of Forensic Analysis Officer

- Recording findings and collecting trace evidence from scenes of crime or accident.
- Primary Analysing samples such as hair, body fluids, glass, paint and drugs.
- Applying various techniques as appropriate.
- Preservation and then preparation of samples without loosing its evidential value for sending to Regional Forensic Lab for further analysis.
- Giving evidence in court.

Job Profile of Lab Assistant

- Assisting Forensic Analysis Officer in recording findings and collecting trace evidence from scenes of crime or accident.
- Assisting in primary analysis of samples such as hair, body fluids, glass, paint and drugs.
- Assisting in applying various techniques as appropriate.
- Assisting in preservation and then preparation of samples without loosing its evidential value for sending to Regional Forensic Lab for further analysis.
- Assisting in giving evidence in court.
- Assisting in carrying out various preliminary level test .

Infrastructure

- Infrastructure of 100 Sqm well furnished as kennel and accommodation for Dog Handlers.
- Mini Forensic Lab with 100 Sqm with furnishing and equipments.

Area	Dimension	
Dog Kennel (5 Dogs)		Rs. 10,00,000/-
Barrack/Mess/Store & Forensic Lab	125 Sq. Mtrs.	Rs. 40,00,000/-
Total :		Rs. 50,00,000/-

ANNEXURE-N**Cyber Forensics Tool Kit for Distt. Level Cyber Cell/Police
Commissionerate Level (Nos. 692+172=864)**

Sl.No.	Kits	Unit	Cost in Rs.
1.	Desk Top with Printer	2	1,00,000
2.	Laptop with Data Card	1	70,000
3.	Mobile Phone Call Analyser	1	60,000
4.	Email Examiner	1	85,000
5.	Relationship Analysis software	1	6,00,000
6.	Chat Examiner	1	4,000
7.	Advanced Password Recovery	1	59,000
	Total (Approx. Cost)		9,78,000

Total nation wide Police Distts.(692) +Police CommissionerateCities-37 (Out of 37 cities, Delhi, Bangalore, Chennai, Hyderabad, Kolkata & Mumbai @ 8 Units each i.e. $6 \times 8 = 48$ and + Rest 31 Commissionerate Cities @ 4 units each i.e. $31 \times 4 = 124$; $48 + 124 = 172$). (Refer -Annexure-L.)

APPENDIX-1**Details and Duration of Trainings at Dog Training Centre**

Name of Course	Duration
Explosive Dog Training	24 weeks
Tracker Dog Training	36 Weeks
Search and Rescue Dog Training	24 Weeks
Refresher Course for trained Dogs	06 Weeks
Pool of Dog Handler Course	12 Weeks
Dog Handling and Management Course for Veterinary Officers	12 Weeks
Veterinary Nursing Asstt Course	06 Weeks
Pups Rearing and Management Course	04 Weeks
Narcotic Dog Training	24 Weeks
Dog handlers training	24 Weeks

APPENDIX-2**Details and salary of manpower of NFSIC**

Rank	Pay-Band	Financial Imp. For 1 year	No. of posts	Total Financial Implication (Rs.)
Sr. Forensic Scientist	PB-3 15600-39100 GP-5400/-	3,69,000	1	3,69,000
F/Scientist	PB-2 9300-34800, GP-4600	3,15,660	1	3,15,660
Sr. F/Assistant	PB-2 9300-34800, GP4200	2,52,324	3	7,56,972
F/Assistant	PB-1 5200-20200, GP2800	2,15,088	7	15,05,616
Lab Assistant	PB-1 5200-20200, GP 2000	1,64,628	3	4,93,884
			15	34,41,132
		R/off		0.34 Crores

APPENDIX-3**The Space requirement and details of expenditure for NFSIC infrastructure and equipment****(a) Call Centre:**

Area	Dimension	Total Area in Sq. ft.
Office	44 (Sq. ft)X 15 Persl.	660 Sq. ft
Server Room		100 Sq. ft
Record Room		120 Sq. ft
Toilet		60 Sq. ft
	Total	940 Sq. M
	(Appx.)	90 Sq. ft
Cost involved	90 X24000	21,60,000
	(Appx.)	22 lacs.

(b) Training Room:

Area	Dimension	Total Area in Sq. ft.
Trg Room	37 Sq M	37 sqm
Cost involved	37 X 24,000	8,88,000
	(Appx.)	9 lacs

(c)

PRI Line for Call Centre & other eqpts. (EPABX etc.)	5 Lac
Servers/PCs/Other equipments/Training Aids Including environment development	50 Lacs
Forensic equipments (District Level Scale) for training	10 Lacs
Total Rs.	0.65 Cr. Per Training Centre.

Total : .22 Cr+ .9 Cr + .65 Cr = **.96 Crores**