



National Forensic
Sciences University

Knowledge | Wisdom | Fulfilment
An Institution of National Importance
(Ministry of Home Affairs, Government of India)



गृह मंत्रालय
MINISTRY OF
HOME AFFAIRS

CONCEPTUALIZED & DESIGNED BY NATIONAL FORENSIC SCIENCES UNIVERSITY



MOBILE FORENSIC VAN (MFV)©

AN INITIATIVE TO STRENGTHEN CRIME SCENE MANAGEMENT



Forensic Investigation and collection of evidence is a mammoth & most significant part to be performed by forensic experts at the scene of occurrence. The Mobile Forensic Team assists the Investigating officer in linking the crime with the perpetrator through the forensic evidences collected from the crime scene. It is always a challenge to take kits and tools required for crime scene investigation to the scene of occurrence. For investigative uniformity and standardization an idiosyncratic Van was designed to transport, store the kits and laboratory equipment. It provides a sheltered and secured facility where evidence can be bagged, labeled, examined, and securely stored while investigations and evidence gathering are underway.

As per the directives of Hon'ble Union Home Minister, GoI, Shri. Amit Shah Ji who entrusted National Forensic Sciences University to prepare mobile forensic van which will provide uniformity of investigation across the nation. After the extensive research of 1.5 years, NFSU has come out with a model of MFV which is a state-of-art van equipped with all types of tools and Kits for on spot collection, and preliminary testing of variety of evidences for crimes like rape, murder, dacoity, explosion, narcotics, arson, accidental scenes etc.

Why MFV?



It will lead to effective criminal justice system



Will provide timely scientific investigation on the crime scene itself.



Ergonomic working environment



On Spot Detection



Standardization & Uniformity In Examination



Rapid Detection

CRIME SCENE INVESTIGATION TOOLS & EQUIPMENTS

WEIGHING BALANCE

For precision and accurate weighing of the trace evidences like narcotics and psychotropic substances, soil, etc.

LED SCREEN

Provided with LED screen which is helpful for monitoring the real time movements and events occurring at the crime scene.

LAPTOP

For report writing and documentation purpose on the scene of occurrence.

FLASH LIGHTS

For investigation and illumination at night

1



REFRIGERATOR

For Storage and proper preservation of biodegradable evidences.

3



CCTV CAMERA

For capturing the live events occurring on the crime scene in order to have a record of the situation.

5



STEREO MICROSCOPE

Table-top stereo microscope for physical examination of various trace evidences at the crime scene itself.

7



DIGITAL CAMERA

For documentation and photography of the evidences present on the crime scene

2

4

6

8

MFV comes with facilities to document the scene of occurrence. The 14 basic kits along with tools viz Multi-tunable Light Source which has 8 different wavelengths, thereby enhancing the detection capabilities for Latent Fingerprints, Body Fluids, Hairs & Fibers, Gunshot Residues/ Explosive residues, bite marks, Questioned Documents, Tire Tracks, Shoe Prints, Narcotic Drugs, etc. To make optimum usage of the Crime scene management experts, specially trained in NFSU, for this purpose, will be made available to manage the “MFV”.



Crime Scene Protection Kit : Utilized in securing the crime scene during investigation.

Encompasses all the required tools for the complete protection can barrigation of the scene.



General Investigation Kit: Kit is excellent crime scene search officers as it content all the necessary tools for the complete investigation of the crime scene as well as documentation of the scene.



Evidence Collection & Packaging Kit: Utilized for evidence collection & packaging from crime scene. The content preliminary permits collection bag, forceps, tags, plastic containers, envelops etc.



Finger print taking Kit: it provides standard rollers/ stamps for the collection of prints. It is specially designed to ergonomically maintain maximum comfort and balance while collecting samples.



Latent Finger Print Development Kit: Utilized in fingerprint collection in murder, theft, robbery cases. Latent, patent or visible prints can be collected with the help of kit as it possess multi colored powder, magnetic powder etc.



Foot & Tyre print casting Kit: utilized for the casting of foot or tyre marks present in snow, mud, dirt or sand. Provides easy casting collection methods on the crime scene.



Forensic Light Sources Kit: provides tunable light sources including UV, Fluorescence light for the detection of blood, seminal stains, any biological matrixes on the crime scene.



Blood & Semen Detection Kit: Blood or seminal stains present on the crime scene can be detected in the fields itself if their nature is doubtful. Kit provide sensitive presumptive examination of such stains in case of rape.



Sexual Assault Investigation Kit: Special kit can be utilized by various law enforcement agencies in order to collect evidences in assault cases. It provides forensic medico tool as well as FTA cards.



Explosive Detection Kit: Provides fast on spot detection of explosive materials such as TNT, PETN, RDX, TATP etc. on crime scene. Gives high sensitivity even in trace amount of sample.



Narcotics Testing kit: Kit provides on spot detection test of various substances such as marijuana, Opium, barbiturates, heroin mix etc. during crime scene investigation.



Gunpowder Detection Kit: Can be utilized to perform presumptive test on the crime scene from the suspected shooters hands. Trace elemental detection can be achieved by using the kit.



Bullet Hole Testing Kit: The kit provides reagents for the identification of bullet hole and to detect the presence of Components of gun shot residues viz lead, antimony, barium, etc.



Arson Investigation Kit: Combustible hydrocarbons/ gas detectors detection plays important roles in suspected arson or fire scene. Kit detects acetylene, methy chloride, iso-butane, acetone etc if present at the crime scene.

Hon'ble Union Home Minister, Gol, Shri Amit Shah Visioner

"The conviction rate in crime cases in India was quite less compared to elsewhere in the world. Our aim should be to increase this rate. If we want control crime, it is not possible till we punish the criminals. The work of awarding punishment to the criminals when we have place for scientific evidence in the process of investigation and prosecution and this things are not possible unless adapt modernized forensic capabilities"



Hon'ble Vice Chancellor-NFSU Dr. J. M. Vyas (Padma Shree): Creator

"Shouldered with capacity building in Forensic Science. Rapid examination, uniformity in preservation and standardization in reports was my envisioned aim, which is now sculptured in the form of Mobile Forensic Van. This will strengthen the criminal justice system at large. "



Dr. Pooja Ahuja, Associate Professor, NFSU Creator

"This Would be a new age forensic mobile vehicle for the nation. This will increase countries capabilities for effective, on time detection of crime and evidences. Responding to the crime scene with MFV and rapid soughting of evidences will lead to new directions in investigation of crime scene "

