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## PREFACE

Counterfeiting of currency is one of the oldest crimes. With the recent spurt in international terrorism counterfeiting of currency/ banknotes has gained momentum and the targeted countries are flooded with counterfeit bank/ currency notes to destabilize the administrative, social and economic balance of the country. India is also facing problems in respect of counterfeit currency.

Forensic Laboratories of the country are already carrying out examination of counterfeit bank/ currency notes and giving their reports based on the examination of currency notes as a “document” since their experts are not covered under section 292 Cr. P. C. Action has been taken up by the Government of India to include FSL experts under section 292 Cr. P. C. at par with experts of bank note and security presses. Though these cases are examined by laboratories using their laboratory data bank and know-how, it is observed that there is lack of uniformity in examination procedures among the different laboratories, which may some times lead to inconclusive, erroneous or contradicting results.

Keeping in view of the complexity of counterfeiting wherein hi-tech instruments and technology are being used in printing of counterfeit notes, thus, undertaking the examination more difficult, it was decided that all these laboratories should have uniform and meaningful laboratory procedure manual for the examination of counterfeit/ bank currency notes. Therefore exercise was undertaken by a committee of experts derived from Forensic Laboratories, Currency/ Bank note presses and Reserve Bank of India to draft a uniform and effective laboratory procedure manual for the purpose. It is expected that with the introduction of this manual laboratories will be in a position to examine such exhibits of counterfeiting of currency/ bank notes and other related materials in an efficient and effective way.

(Dr. M. S. Rao)

## 1.0 Instructions to IOs for Forwarding of Cases

The important points to be taken care of at the time of submission of case from various investigating agencies, courts of law etc. pertaining to the suspected counterfeit currency note cases are as below:-1. Letter meant for forwarding the Questioned/suspected Currency Note and other seized material for examination (hereinafter will be called as exhibits) in the prescribed format as given in Appendix I and should be signed not below the rank of Dy. Superintendent of Police/ a gazetted officer or any judicial authority.

2. Exhibits should always be sent in a properly sealed cover and duly attested sample seal should be provided with sealing wax on a cloth piece.
3. No marking should be done by the IOs on currency notes as it may spoil the important features useful for study and may affect the evidential value of the currency note. Instead, they should be placed in an envelope, which should be marked and exhibit details should be given on the envelope. For exhibits other than currency notes, sufficient care should be taken while marking to avoid damaging evidential value of the exhibits.
4. Details of all the exhibits along with the details of the persons from whom the exhibits have been seized should be clearly mentioned in the Forwarding Letter to the Directors/GEsQD/ General Managers' of Printing Press CNP, BNP, BRB, MNL/Division Head for the laboratory examination.
5. Specific/clear questionnaire for examination of seized exhibits and other seized material must be mentioned in the forwarding letter.
6. Details of the registered Case No., u/s, & Police Station, ----- should be mentioned in the forwarding letter clearly.
7. While submitting suspected currency notes to the laboratory for the examination, they should not be packed in folded, stapled or pasted condition, rather they should be kept flat in a polythene cover placed between two cardboards to avoid damage due to handling during transit.

*Note: Proforma for forwarding note, certificate of authorization and checklist for IOs before dispatch of exhibits are appended as Appendix 1-3.*

## **2.0 Receipt and Disposal of Cases in the Laboratory**

1. The Laboratory should receive the case if forwarded by an officer not below the rank of Deputy Superintendent of police or judicial authority. On receipt of exhibits from forwarding authority, the designated officer has to ensure that the exhibits are properly forwarded by competent authority and are properly sealed. A distinct number will be allotted to the case, when received in the laboratory. (eg. Lab. ID/place/year/No. )
2. At the time of receipt, the exhibits are to be verified with reference to the forwarding note. If any discrepancy is found, it is to be brought to the notice of the forwarding authority and the same is to be returned along with the exhibits.
3. Director of Forensic Laboratories / General Managers of Printing Press CNP, BNP, BRBNML or Division in-charge on behalf of the Director/General Manager (herein after will be called as designated officer) should ensure that whether the examination can be undertaken and whether adequate facility and trained manpower is available with the Laboratory/Press to undertake such testing as required in the forwarding letter. It should be ensured that the seals, affixed on the parcel, tallied with the specimen seals and the seals are intact. If the seals do not tally or are not intact, the exhibits along with covering letter are to be returned to the forwarding authority. If the case is acceptable, the Director allots the case to the Division/ reporting officer.
4. The Division in-charge shall register the case in Exhibit Receipt Register of the Division giving all the details of the case such as a) Date of Receipt, b) Distinctive case number allotted by Designated Officer, c) Forwarding authority, d) Forwarding letter No. and date, e) Under Section and Act, f) Name of the persons from whom the exhibits are seized g) No. of exhibits, h) Brief details of examination required etc.
5. The designated officer will either examine the exhibits himself or allot the case to a reporting officer.

6. The exhibits and case file are to be preserved in safe custody under proper environmental conditions –ambient temperature 23<sup>0</sup> C - 25<sup>0</sup> C and relative humidity 55% - 60% - as per requirement of the particular exhibits by the Reporting Officer.
7. On opening the exhibit packet (s) the reporting officer should note the following details on Case Opening Sheet (Annexure-1).
  - a) Distinctive number allotted by the designated officer
  - b) Forwarding authority
  - c) FIR No. and Police Station
  - d) Under Section of Law
  - e) Number of parcels and their conditions
  - f) Description of parcels
  - g) Number of seal impressions and condition of seals
8. On opening the parcel, the condition of exhibits, whether any separate seal is affixed on the exhibits, label, and quantity/dimension of the exhibit are to be noted by the reporting officer.
  - a. Exhibits should be identified only by distinctive number allotted by Designated Officer suffixed by Exhibit-1, 2, 3 and so on eg. XXXX/1 (Case FSL No. /Exhibit No.).
  - b. The exhibits can be sub-divided and distinctive sub-numbers can be given to exhibits such as Exhibit-1 can be sub-divided as Exhibit-1(A), Exhibit-1(B) and so on.
9. The tests should be conducted either by the reporting officer himself or under his/her strict supervision and the examination/ observations should be recorded in the Worksheet/ Observation sheet (Annexure-2).
10. The exhibits, during examination, are to be kept in an isolated but secured place to avoid cross contamination and inadvertent mixing with each other. Reporting Officers are to ensure that proper environmental conditions mentioned for each type of exhibits are maintained to avoid deterioration or destruction due to environmental conditions.

11. The examination report should be written in an objective way so that the forwarding authority and judiciary could easily understand it. Examination report should be submitted in the prescribed format (Annexure-3).
12. After the examination, examined exhibits/remnants are to be separately packed, sealed, labeled, stamped with 'Examined Seal' of the respective Division and signed by the reporting officer. These examined exhibits/remnants are to be kept in separate secured isolated place till the collection of the same by forwarding authority. A message should be sent to forwarding authority to collect the case property and examination report, immediately after completing all formalities for sending the report and examined exhibits or they should be sent to the forwarding authority by Registered post, if required.
13. When the authorized representative of forwarding authority comes with proper authority and after ensuring the authenticity of such personnel from his identity card etc., the designated officer or person authorized will collect remnants from respective Divisions along with case files. Remnants are properly labeled, so as to link it with the case, police station etc., sealed and handed over to authorized representative or sent back to the forwarding authority by Registered post, if required.
14. While sending the examined remnants to the office the division in-charge will ensure that proper records are maintained to ensure chain of custody of exhibits. The authorized person will ensure that number of parcels received from the forwarding authority have been delivered back to him. The designated officer will take signature, identification number, name and designation, police station to which the messenger is attached etc., in the forwarding letter. The designated officer will keep proper acknowledgement of the dispatch of exhibits in case of dispatch of exhibits as to be done;
15. **In case of forged notes seized by the Investigating Offices**, denomination-wise details on the forged notes examined by the designating authority along with the details such as name and address of the forwarding authority and the quality of the report in the format prescribed in Annexure-4 may be sent to the Chief General Manager, Reserve Bank of India, Department of Currency Management, Central Office, Fort, Mumbai.

### **3.0 Laboratory Examination**

1. The first step is to write the description of the case exhibits. The case exhibits should be opened by the examiner and the description contained in the forwarding note must be tallied with the exhibits..
2. The description of case exhibits, seals etc. should be recorded in the prescribed format (Annexure-1).
3. The document examiner should carry out labeling/markings on the case exhibits and put specific laboratory marking on each exhibit in a way that should not affect the evidential value or disfigure the exhibit (particularly currency note). The exhibit can be placed in an appropriate envelope/container upon which the laboratory seal and marking could be given for identification..
4. During the preliminary examination of the exhibits the following information should be recorded in the observation sheet:
  - a. Currency note number and series with Q marking.
  - b. Currency note inset letter if any or 'Nil'
  - c. General appearance and physical condition of each exhibit(s)
5. Photography of the exhibits (both sides) for record purpose may be done, if required, and negatives/soft copy should be kept under sealed condition. Prints in routine case should not be made as the examination is based on the original currency notes / exhibits.
6. If need be, the Examiner may take prints of the photograph of the specific features embodied in the exhibits and keep the same in the file for demonstrative purpose in the court.

#### **3 (a). Examination of Security Features of currency Notes.**

1. The examination of the various security features in a suspected exhibit (counterfeit currency) can be grouped in to the following categories: -
  - A. Physical Dimensions
  - B. Security Features in Currency Note Paper
  - C. Security Features in Currency Note Printing
  - D. Security Features in Currency Note Design elements
  - E. Other features, if any

The comparison of above-mentioned features has to be done with sample notes of same design and denomination available in data bank of laboratory.

**A. Physical Dimension:**

The cut size of the note is studied in the form of length, width and grammage of paper and thickness of the paper/substrate and compared with that of authentic currency/ bank note.

**B. Security Features in Currency Note Paper:**

The currency notes are printed on high quality paper made of 100% cotton. The cotton is used because of its unique features like natural whiteness and length of fibre and folding strength due to which the currency notes have surface finish and crackle. The following features of the currency note, in the order listed below are to be examined and observed values are to be recorded.

**Substrate**

Unique feel, crackling sound and finish  
Raw material – cotton pulp or wood pulp  
Colour of paper  
Opacity (If required refer to paper Lab.)  
Transparency

**Watermarks**

Multi-tonal Mahatma Gandhi Portrait Other  
water marks – ‘RBI’, Denomination -  
5/10/20/50/100/500/1000, 1K (Method of  
generation)

Present/ Absent:

Remarks: Design and  
size different  
or same

**UV/ optical fibr**

Colour of fluorescent (number of colours)  
Wavelength of fluorescence Density-Numbers  
per Square inch and Length of fibres

**Security thread**

Present / Absent (If present:  
Continuous / discontinuous  
Windowed / Embedded / Printed  
No. of Windows  
Ladder watermarks  
Width of thread  
Thickness

Text (Micro text Present or Absent)  
Height of clear micro text  
Content – (Material – Metallic/ polyester/ metal coated polyester/ fluoresc  
non-fluorescent.  
Readable from front / back or both  
Magnetic/ non-magnetic

**Colour(s) of fluorescence**

**Wavelength of fluorescence**

**Position** Floating / Stationary

### **C. Security Features in Currency Note Printing**

#### **Printing Process**

Offset  
Intaglio  
Letterpress  
Serigraphy (screen printing)  
Photostat Copying  
Inkjet  
Bubble-jet  
Laser-jet  
Desk-jet  
Digital printing  
Properties / features  
Impression  
Water resistance  
Image properties  
- Line work  
- Halftone  
- Digitized patterns

CMYK (Cyan, Magenta, Yellow and Black)

Finish

- Varnished
- Fused

Feel / tactility

#### **Printing Ink**

Thickness  
Fluorescence : (UV Wave length 254 and 365 nm)  
OVI - Optical variability of colour- shift effect (OVI printing by Intaglio  
screen printing)

### **D. Security Features in Currency/ Bank Note Design:**

**See through register**

**Anti scan lines on watermark (in window)**

**Braille mark**

**Rainbow effect**

**Layers or CMYK**

**Bleeding effect**

**Latent Image**

**Micro lettering**

Size Pattern **Omron Present/**

Absent

**Guilloche**

Pattern

Colour

Frequency

Modulation

**Portrait- design**

**Medallion**

**Numbering**

Pre-fix Type face

Font Size Colour

Fluorescence

**Text**

Typeface – normal/ deformed

Deformation

**Lines**

Ants

Stumping

Thickness

Modulation

**Conclusion**

**Counterfeit/ Forged/ Built-up/ Tampered**

### **3 (b) Instrumental Techniques**

For chemical analysis, as per need, the exhibits can be referred to appropriate Laboratories.

a. Non-Destructive Testing and

b. Destructive Testing

**a. Non-Destructive Testing:**

Different features of paper and ink can be studied by i.

Travel FTIR ii. SEM

iii FT-Raman

iv VSC (latest model)/ Docucentre/ Polyview

**b. Destructive Testing:**

Chemical constituents of paper and ink, as per need, can be studied by i.

Gas Chromatography ii HPTLC iii FTIR iv SEM-EDXA

**Computer Forensics:** When computer hardware & software suspected to have been used for counterfeiting, the exhibits can be referred to appropriate laboratory having expertise to handle the computer forensics related exhibits.

*Seizure of exhibits in respect of illegal printing (given below) the exhibits can be referred to appropriate laboratories (Appendix-4).*

- a. Printing blocks*
- b. Paper*
- c. Ink*
- d. Films*
- e. Other accessories*

**Case Opening Sheet**

1. Case No.  
(Distinctive number allotted by the designated officer)

2. Forwarding Authority

3. FIR No.                      Dated                      u/s                      PS

4. No. of parcels and their condition

5. Description of parcels

Parcel/ Exhibit	No. of seals and impression	Description

6. Condition of seals

7. Enclosures details, if any

8. Any other information

(Signature of Assisting Officer)

(Signature of Examining Officer)

## Work Sheet/ Observation Sheet

Case No.....

**Exhibits: Questioned****Authentic Samples****Number of Exhibits**

### Laboratory Examination

The questioned currency note(s) are thoroughly examined and compared in all aspects of its physical features, security feature in its paper, printing and design elements etc. under appropriate conditions utilizing various scientific instruments available in the laboratory and the following observations are made:

#### PHYSICAL EXAMINATION

		Authentic Sample	Questioned Samples		Remarks
			Exhibit-	Exhibit-1	
<u>Physical Dimensions</u>					
	Length				
	Width				
	Grammage				
	Thickness				
<b>SECURITY FEATURES IN CURRENCY NOTE PAPER</b>					
	Feel/Finish				
	Raw material				
	Colour				
	Opacity / Transparency				
	Thickness				
<u>Watermarks</u>					
	Multi-tonal Mahatma Gandhi portrait				
	Other water marks – RBI Present/ Absent: Denomination: 5/10/20/50/ 100/ 500/ 1000, 1K (Present/ Absent)				
<u>UV fluorescent fibers</u>					
	Colour of fluorescent				
	Wavelength of fluorescence				
	Density-Numbers per Square inch				
	Length of fibres				
<u>Security thread</u>					
	Present / Absent				

	Continuous / discontinuous				
	Windowed / Embedded				
	No. of Windows				
	Ladder watermark				
	Width of thread				
	Thickness				
	Height of clear micro text				
	Content (material – Metallic/ Polyester/ Metal coated polyester/ Fluorescent/ non-fluorescent)				
	Readable from front / back or both				
	Magnetic/ Non-magnetic				
	Colour(s) of fluorescence				
	Wavelength of fluorescence				
	Position				
Micro Text	Floating / Stationary				
<b>SECURITY FEATURES IN NOTE PRINTING</b>					
	Printing Process				
	Offset				
	Intaglio				
	Letterpress				
	Serigraphy (screen printing)				
	Photostat Copying				
	Inkjet				
	Bubble-jet				
	Laser-jet				
	Desk-jet				
	<b>Digital printing</b> Properties / features Impression Water resistance Image properties Line work Halftone Digitized patterns CMYK Finish Varnished Fused				
	Feel / tactility				
	<b>Printing Ink</b>				
	Colour(s) in CIEL * a * b				



	Opacity				
	Transparency				
	Thickness				
	Fluorescence (UV Wave length 254 and 365 nm)				

Optical variable ink

<b>SECURITY FEATURES IN CURRENCY/ BANK NOTE DESIGN</b>					
	See through register				
	Anti scan lines on watermark				
	Braille mark				
	Rainbow effect				
	Layers or CMYK (Cyan, Magenta, Yellow and Black)				
	Bleeding effect				
	Latent Image				
	<u>Micro lettering</u>				
	Size				
	Pattern				
	Omron (anti photocopying feature)				
	<u>Guilloche</u>				
	Pattern				
	Colour				
	Frequency				
	Modulation				
	Portrait				
	Medallion				
	<u>Numbering</u>				
	Pre-fix				
	Type face				
	Font Size				
	Colour				
	Fluorescence				
	Text				
	Typeface				
	Deformation				
	Lines				
	Ants				
	Stumping				
	Thickness				
	Modulation				
	Conclusion: Counterfeit/ forged/ built-up/ tampered				

Signature of Examining Officer(s)

MODEL FORMAT

(NAME OF THE LABORATORY)

EXAMINATION REPORT

(Admissible under Section 292 Cr.PC of India)

1. Report No. : (Distinctive Number allotted by the designated officer) Dt.
2. No. of pages of report :
  1. Ref No. : Dt. From:
4. FIR / DD No. : Dt. U/S  
P.S.
5. Mode of Receipt : Through
6. Date of Receipt :
7. Article(s) Received:
8. Details of the Parcels / Exhibits received :

Parcel No.	No. of Seals & Impression	Description
------------	---------------------------	-------------
9. Condition of the seal (s) / parcel (s) :
10. Purpose of reference: For ..... Examination & Report
11. Dates of Examination:

## RESULTS OF EXAMINATION / REPORT

The exhibits have been carefully and thoroughly examined with the help of various scientific instrumental methods, microscopy, spectroscopy and other instrumental methods. Based upon the observations, the result of examination is given below.

### ***(SPECIMEN FORMAT)***

1. *Exhibit.....was/ were found to be not genuine but counterfeit \**
2. *Exhibit.....was/ were found to be genuine and not counterfeit\* 2.*  
*Exhibit.....was/were found/not found to be sample of genuine currency paper\**
4. *Exhibit.....was/ were found/not found to be sample of genuine currency printing ink\**
5. *Exhibit.....was/were found/ not found to be sample of genuine currency printing blocks\**
6. *Exhibit..... was/ were found/not found to be computer hardware used for counterfeiting of currency notes\**
7. *Exhibit.....was/were not found to be computer software ware used for Counterfeiting of currency notes\**
8. *Exhibit.....was/ were found/not found to be printer used for counterfeiting of currency notes\**
9. *Exhibits..... were found/ not found to be similar\**

\* due to following reasons

.....  
**(report should be written in clear and objective way)**

Note : 1. Results relate only to exhibits tested  
2. Report shall not be reproduced except in full, without the written approval of the Director.  
3. After the examination, the examined exhibits/remnants of the exhibits have been sealed with the seals of

Specimen Seal

Examined by

(Inner Cover)

(Signature and Date)  
Name

Designation: (Official Stamp) (Outer Cover)

**(Letter Head of the Forensic Laboratory/Printing Press)**

Ref. No.

Date:

The Chief General Manager,  
Reserve Bank of India,  
Department of Currency Management,  
Central Office,  
Central Office Building, 21<sup>st</sup> Floor,  
Shaheed Bhagat Singh Marg, Fort,  
Mumbai 400 001.

Dear Sir,

**Report on Examination of Forged Notes seized by investigating agencies**

We forward herewith a report on the forged notes seized by investigating agencies as under:

1. 1. Report No. : Dt.  
(Distinctive Number allotted by the designated officer)
2. Ref No. : Dt. From: (Name and address of forwarding authority)
3. FIR / DD No. : Dt. U/S
4. Date of Receipt
5. Details of forged notes received for examination (Denomination-wise details)

Denomination (Rs.)	No. of notes	Whether printed/copied and method used	Whether High Profile / Low Profile

(Signature and Date)

Name  
Designation:  
(Official Stamp)

## List of Major Equipment Required for Forensic Examination of the Counterfeit Currency Notes

### A. For Physical Analysis (Ink, Paper & Security Features)

1. UV Lamp with two 9” UV tubes (Phillips) effective at 254 and 366 nm with strong transmitted light and oblique light.
2. A set of magnifying glasses
  - a) 10 x (folding)
  - b) 2 x - 4 x illuminated
  - c) 4 x - 6 x illuminated
  - d) 6 x - 8 x illuminated
3. Counterfeit currency detector pen
4. Hand held IR Detector
5. VSC – 5000 HR/Docucentre 4500 Polyview or equivalent
6. Paper thickness gauge or computerized backness measuring instrument.

### B. Non Destructive Instrumental/chemical analysis for Ink & paper

1. Travel FTIR
2. FT Raman Spectrophotometer
3. XRD

**C. Computer Forensics Tools** – For analysis and examination of equipment and tool capable of printing forged currency notes such as computers, scanners, printer disk and floppies, printer, CD Writers etc.

**D. Tools used for printing of fake currency notes** - Blocks, dies etc. Printing tools and tackles, Films, Dies, Offset plates, Plate making equipment, Numbering heads and boxes, Inks, Computer and its peripherals including computers, storage devices, CD Writers, Photocopiers and their peripherals, toners etc. if seized during the investigation the sample print outs of these seizures will be taken by the Bank note printing presses only and I.O. should send these blocks to Nasik, Dewas, Mysore or Salboni press. In case when seizure of the counterfeits obtained through photocopying is done in such instances the I.O. should be requested to seize the photocopying machine with a view of linking machine with the counterfeit.

**Note:** *If bulk of paper meant for counterfeiting is seized. They should be sent for paper properties and qualities including substance, thickness, tensile, WSR, breaking length, stretch, tear, porosity, burst, opacity, ash content, SOAT, pH, PVOH, pick, moisture, fiber count etc. sample may be sent to Central Paper & Pulp Research Institute, Saharanpur or CNP (Cellulose & Paper Branch of Forest Research Institute, Dehradun (Uttaranchal) (Please note that – these techniques are destructive techniques of testing and examination).*

**Memo/ Letter No.**

**Date**

**Name and address of :  
Forwarding Authority**

**CASE FORWARDING NOTE FOR FORENSIC EXAMINATION**

I. Case No.: Dated: P.S.  
U/S: District: State/UT:

II. Brief history of the case:

III. List of exhibits/parcels sent for examination:

No.	Description of exhibits (Denomination-wise details in case of currency notes)	Source of exhibit	Details of Exhibits/Parcels & seal	Exhibit collected by

IV. Nature of examination required:

**Seal affixed on parcel**

(Specimen seal in wax) Phone No.:  
Fax No.:

Signature, Name and designation of  
Investigating Officer

Phone No.:  
Fax No.:

Signature, seal and designation of the  
Forwarding Authority

**Memo No.:**

**Date:**

**CERTIFICATE**

Certified that the Director, Forensic Science Laboratory, \_\_\_\_\_ has the authority to examine the forwarded exhibits of the Case No. \_\_\_\_\_ dated \_\_\_\_\_ P.S. \_\_\_\_\_ U/S. \_\_\_\_\_ and if desired, to take portions thereof or take them to pieces for the purpose of examination.

Phone No.  
Fax No.:

Signature, seal and designation of the  
Forwarding Authority\*.

\* The case should be forwarded by an officer not below the rank of Deputy Superintendent of Police/ gazetted officer or judicial authority.

**Guidelines to be followed by the forwarding authorities  
while forwarding counterfeit currency exhibits**

**Check list**

1.	Brief history of case	Yes/No
2.	Duly packed, labeled and sealed exhibits	Yes/No
3.	Duly sealed and marked control samples	Yes/No
4.	Sample seal(s) in wax	Yes/No
5.	Attested copy of FIR	Yes/No
6.	Road Certificate/ Challan	Yes/No
7.	Case forwarded by an officer not below the rank of Deputy Superintendent of Police/Gazetted Officer or Judicial Authority.	Yes/No
8.	Whether forwarding letter bears signature, seal and designation of the Forwarding Authority	Yes/No
9.	Whether Forwarding letter bears telephone & fax Nos. of Forwarding Authority and Investigating Officer	Yes/No
10.	Messenger has been instructed to be present in lab in uniform with Identity Card	Yes/No

**List of Laboratories**

<b>Central / State Forensic Laboratories</b>	
1.	CFSL, Chandigarh
2.	CFSL, Kolkata
3.	CFSL, Hyderabad
4.	CFSL, CBI, New Delhi
5.	Government Examiner of Questioned Documents, Shimla
6.	Government Examiner of Questioned Documents, Kolkata
7.	Government Examiner of Questioned Documents, Hyderabad
8.	FSL, Andhra Pradesh, Hyderabad.
9.	FSL, Assam, Guwahati.
10.	FSL, Bihar, Patna.
11.	FSL, Chhathisgarh, Raipur.
12.	FSL, Delhi, Malviya Nagar, Delhi.
13.	FSL, Gujarat, Gandhi Nagar.
14.	FSL, Haryana, Madhuban.
15.	FSL, Himachal Pradesh, Shimla.
16.	FSL, J & K, Srinagar.
17.	FSL, Jharkhand, Ranchi.
18.	FSL, Karnataka, Bangalore.
19.	FSL, Kerala, Thiruvananthapuram.
20.	FSL, Madhya Pradesh, Sagar.
21.	FSL, Maharashtra, Mumbai.
22.	FSL, Manipur, Pongei.
23.	FSL, Meghalaya, Shillong.
24.	FSL, Mizoram, Aizwal.
25.	FSL, Nagaland, Dimapur
26.	FSL, Orissa, Bhubaneshwar.
27.	FSL, Punjab, Chandigarh.
28.	FSL, Rajasthan, Jaipur.
29.	FSL, TamilNadu, Chennai.
30.	FSL, Tripura, Agartala.
31.	FSL, Uttar Pradesh, Lucknow.
32.	FSL, West Bengal, Kolkata.
<b>Currency/ Bank Note Printing Presses</b>	
33.	Bank Note Press, Dewas
34.	Currency Note Press, Nashik Road
35.	Bhartiya Reserve Bank Note Mudran (P) Limited, Mysore and Salbani.

## **List of Contributors**

Directorate of Forensic Science, Ministry of Home Affairs, was entrusted the task of drafting an uniform and effective laboratory procedure manual for the examination of counterfeit bank/ currency notes and related material. A committee of the following officers was constituted in consultation with Ministry Of Finance, which undertook the exercise in the meeting on 27.06. 2003 held at Directorate of Forensic Science, New Delhi.

1. Dr. M. S. Rao, Director-cum- Chief Forensic Scientist.
2. Dr. S. R. Singh, Director, CFSL, CBI. New Delhi
3. Sh. A. S. Kulkarni, Dy. G. M., RBI, Mumbai
4. Sh. M. C. Bylappa, Works Manager, CNP, Nashik Road
5. Sh. N. Krishnaswamy, Manager, BRMNPL, Musore
6. Sh. B. K. Kher, Chemist Gr. I, BNP, Dewas
7. Sh. R. K. Srivastava, Works Manager, ISP, Nashik Road
8. Dr. S. C. Mittal, PSO, CFSL, CBI, New Delhi
9. Dr. S. K. Shukla, Dy. Director, CFSL, Hyderabad camp DFS, New Delhi.
10. Sh. K. V. Ravi Kumar, SSO(FS), DFS, New Delhi
11. Sh. M. C. Joshi, AGEQD, Chandigarh

The initial and final draft copies of the manual were circulated to all the forensic laboratories, bank currency note presses and RBI for suggestions. Suggestions received were also taken care and the manual was finalized on 27.10.2003 in a meeting of above committee. The final draft was sent to Reserve Bank of India for perusal. The RBI vetted the Manual vide its letter No. DCM (FNVD) No. 270/16.02.06/2003-04) Dated 05 December 2003.

**Laboratory Procedure Manual**

# **Forensic Examination of Counterfeit or Forged Currency/ Bank Notes and other related Exhibits**



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