

<b>Laboratory</b>	<b>Central Forensic Science Laboratory, 30, Gorachand Road, Kolkata, West Bengal</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Forensic Testing</b>	<b>Issue Date</b>	<b>20.11.2015</b>
<b>Certificate Number</b>	<b>T-1576</b>	<b>Valid Until</b>	<b>19.11.2017</b>
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<b>S. No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>I. BIOLOGY &amp; DNA</b>				
<b>1.</b>	<b>Blood</b>	Tetramethyl Benzidine Test	Working Procedure Manual in Biology; CFSL/KOL/BIO/WPM Issue No. 01; Date of Issue: 01.01.2007	106 dilution
		Takayama Test	Working Procedure Manual in Biology; CFSL/KOL/BIO/WPM Issue No. 01; Date of Issue: 01.01.2007	1 µl of Blood or 0.1 mg of Haemoglobin
		Anti Human Haemoglobin Test	Working Procedure Manual in DNA Profiling: CFSL/KOL/DNA/WPM Issue No. 01; Date of Issue: 01.01.2007	0.05 µg of Haemoglobin
<b>2.</b>	<b>Semen</b>	Acid Phosphatase Test	Working Procedure Manual in Biology; CFSL/KOL/BIO/WPM Issue No. 01; Date of Issue: 01.01.2007	1 µl of Semen
		P30 Test	Working Procedure Manual in DNA Profiling: CFSL/KOL/DNA/WPM; Issue No. 01; Date of Issue: 01.01.2007	1 µl of Semen
		Microscopic Examination	Working Procedure Manual in Biology; CFSL/KOL/BIO/WPM Issue No. 01; Date of Issue: 01.01.2007	0.5 µl of Semen

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3.	Saliva	Starch Iodine Test	Working Procedure Manual in Biology; CFSL/KOL/BIO/WPM Issue No. 01; Date of Issue: 01.01.2007	10 µl of Saliva
		Saligae Test	Working Procedure Manual in DNA Profiling: CFSL/KOL/DNA/WPM Issue No. 01; Date of Issue: 01.01.2007	5 µl of Saliva
4.	Hair	Morphologic and Microscopic Examination	Working Procedure Manual in Biology; CFSL/KOL/BIO/WPM Issue No. 01; Date of Issue: 01.01.2007	1 strand for origin; >10 strands for comparison
5.	Blood for species identification	Double Diffusion Test	Working Procedure Manual in Biology; CFSL/KOL/BIO/WPM; Issue No. 01; Date of Issue: 01.01.2007	> 1µL of Blood
6.	Human Blood, Semen, Vaginal secretions, Saliva, Bone, Tooth, Muscle, Viscera & other Tissues	DNA Extraction	Working Procedure Manual in DNA Profiling: CFSL/KOL/DNA/WPM Issue No. 01; Date of Issue: 01.01.2007	>500 nucleated cells
		Yield Gel	Working Procedure Manual in DNA Profiling: CFSL/KOL/DNA/WPM Issue No. 01;Date of Issue: 01.01.2007	20 ng to 100 ng

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	<b>Human Blood, Semen, Vaginal secretions, Saliva, Bone, Tooth, Muscle, Viscera &amp; other Tissues</b>	Amplification of Short Tandem Repeats (Autosomal & Y Chromosomal)	Working Procedure Manual in DNA Profiling: CFSL/KOL/DNA/WPM Issue No. 01; Date of Issue: 01.01.2007	0.5 ng to 1 ng
		Fragment Sizing and Genotyping with software	Working Procedure Manual in DNA Profiling: CFSL/KOL/DNA/WPM Issue No. 01; Date of Issue: 01.01.2007	(±)0.4 to 0.5 bases
		Statistical Analyses	Working Procedure Manual in DNA Profiling: CFSL/KOL/DNA/WPM Issue No. 01; Date of Issue: 01.01.2007	Qualitative
<b>II.</b>	<b>BALLISTICS</b>			
<b>1.</b>	<b>Firearms</b>	Physical Examination  Test Firing Chemical Analysis	Working Procedure Manual In Ballistics; CFSL/KOL/BALL/WPM Issue No. 01; Date of Issue: 01.01.2007	Qualitative
<b>2.</b>	<b>Pellets, Bullets, Cartridge Cases, Cartridges and its Components</b>	Physical Examination Microscopic Examination  Test Firing  Comparative Examination	Working Procedure Manual In Ballistics; CFSL/KOL/BALL/WPM Issue No. 01; Date of Issue: 01.01.2007	Qualitative

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<b>3.</b>	<b>Targets of Firing</b>	Physical Examination Microscopic Examination Test Firing Comparative Examination Instrumental Examination	Working Procedure Manual In Ballistics; CFSL/KOL/BALL/WPM Issue No. 01; Date of Issue: 01.01.2007	Qualitative
<b>4.</b>	<b>Gun Shot Residue</b>	Physical Examination Chemical Analysis SEM-EDX Analysis	Working Procedure Manual In Ballistics; CFSL/KOL/BALL/WPM Issue No. 01; Date of Issue: 01.01.2007	Qualitative
<b>III. FORENSIC ELECTRONIC INVESTIGATION (COMPUTER FORENSIC)</b>				
<b>1.</b>	<b>Hard disk</b>	Disk forensic ; Bit stream imaging, cloning  OS analysis, Data analysis  Internet artifacts, Registry forensic, E-mail Social networking site artifacts and chat extraction.  Retrieval of detected / hidden data / timeline examination and keyword search	Working Procedure Manual in Computer Forensic CFSL/KOL/CF/WPM Issue No. 01; Date of Issue: 01.01.2007	Qualitative

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2.	<b>Mobile phones, SIM cards, Memory cards &amp; Smart phones (Blackberry, Android)</b>	Data extraction of IMEI, Call logs, Contacts, Internet artifacts, E-mail GPRS settings, CDR	Working Procedure Manual in Computer Forensic CFSL/KOL/CF/WPM Issue No. 01; Date of Issue: 01.01.2007	Qualitative
3.	<b>Secondary storage devices (CD, DVD, Pen Drive, Memory Card)</b>	Data extraction and tracing origin of data to devices / users retrieval of detected / hidden data.	Working Procedure Manual in Computer Forensic CFSL/KOL/CF/WPM Issue No. 01; Date of Issue: 01.01.2007	Qualitative
4.	<b>Devices with Internal Memory (Music Player, Digital Camera, Spycam, Medical Equipment)</b>	Data extraction and tracing origin of data to devices / users retrieval of detected / hidden data	Working Procedure Manual in Computer Forensic CFSL/KOL/CF/WPM Issue No. 01; Date of Issue: 01.01.2007	Qualitative
5.	<b>Data acquired from live memory and servers</b>	Data extraction and tracing origin of data to devices / users retrieval of detected / hidden data	Working Procedure Manual in Computer Forensic CFSL/KOL/CF/WPM Issue No. 01; Date of Issue: 01.01.2007	Qualitative
6.	<b>CCTV analysis</b>	Data extraction / retrieval of detected / hidden data / timeline examination.	Working Procedure Manual in Computer Forensic CFSL/KOL/CF/WPM Issue No. 01; Date of Issue: 01.01.2007	Qualitative

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<b>IV.</b>	<b>CHEMISTRY</b>			
<b>1.</b>	<b>Hand wash / Pocket wash / Swab from currency note in bribery cases</b>	Detection of Phenolphthalein		
		PH	CFSL/KOL/CHEM/WPM/02 Page. 11, Issue No. 01 Date of Issue: 01.01.2007	0 to 14
		Acid & Alkali	CFSL/KOL/CHEM/WPM/02 Page. 11; Issue No. 01 Date of Issue:01.01.2007	Qualitative
		Identification	CFSL/KOL/CHEM/WPM/02 Page. 11; Issue No. 01 Date of Issue:01.01.2007 (Thin Layer Chromatography, UV-Visible Spectrophotometry)	Qualitative Up to 1 µg/ml
		Detection of Carbonate ion		
		Barium chloride	CFSL/KOL/CHEM/WPM/02 Page. 15; Issue No. 01; Date of Issue: 01.01.2007	1 mg/l
		Silver Nitrate test	CFSL/KOL/CHEM/WPM/02 Page. 15; Issue No. 01; Date of Issue:01.01.2007	1 mg/l
		Lime Water test	CFSL/KOL/CHEM/WPM/02 Page. 15; Issue No. 01; Date of Issue: 01.01.2007	Qualitative

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	<b>Hand wash / Pocket wash / Swab from currency note in bribery cases</b>	Magnesium sulphate test	CFSL/KOL/CHEM/WPM/02 Page. 15; Issue No. 01; Date of Issue: 01.01.2007	1 mg/l
		Detection of Sodium ion		
		Flame test	CFSL/KOL/CHEM/WPM/02 Page. 15; Issue No. 01; Date of Issue: 01.01.2007	1 mg/l
		Zinc Uranyl Acetate Test	CFSL/KOL/CHEM/WPM/02 Page. 16; Issue No. 01; Date of Issue:01.01.2007	1 mg/l
<b>V.</b>	<b>NARCOTICS</b>			
<b>1.</b>	<b>Plant Materials: Opium Morphine, Codeine Thebaine</b>	Marquis Test	CFSL/KOL/CHEM/WPM/01 Issue No. 01; Date of Issue: 01.01.2007	0.1 g/l
		Mecke's Test	CFSL/KOL/CHEM/WPM/01 Issue No. 01; Date of Issue: 01.01.2007	0.1 g/l
		Identification	CFSL/KOL/CHEM/WPM/01 Issue No. 01 Date of Issue: 01.01.2007 (Thin Layer Chromatography, Gas Chromatography –Mass Spectrometry)	0.1 g/l to 1.0 µg/l

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2.	<b>Cannabis Ganja Charas, Hasish</b>	Visualization for Morphological analysis (Macroscopic & Microscopic)	CFSL/KOL/CHEM/WPM/01 Issue No. 01 Date of Issue: 01.01.2007	Qualitative
		Color Test (Fast Blue B salt test)	CFSL/KOL/CHEM/WPM/01 Issue No. 01 Date of Issue: 01.01.2007	0.1g/l
		Identification	CFSL/KOL/CHEM/WPM/01 Issue No. 01 Date of Issue: 01.01.2007 (Thin Layer Chromatography/ Gas Chromatography –Mass Spectrometry)	0.1 g/l to 1.0 µg/l
3.	<b>Drug of abuse: (Powder, tablets, capsules, street drugs samples Benzodiazepines (Nitrazepam, Alprazolam, Diazepam, Oxazepam, Clonazepam, Lorazepam</b>	Color test (Formaldehyde Sulphuric acid)	Clark's Isolation and Identification of Drugs, 2nd Edition, Page 134 CFSL/KOL/CHEM/WPM/02 Issue No. 01 Date of Issue: 01.01.2007	0.1g/l
		Identification	CFSL/KOL/CHEM/WPM/02 Issue No. 01 Date of Issue: 01.01.2007 (Gas Chromatography –Mass Spectrometry/Infra-red Spectroscopy)	1.0 µg/l



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4.	<b>Barbiturates (Phenobarbital)</b>	Color test (Dille-Koppanyi )	CFSL/KOL/CHEM/WPM/01 Issue No. 01 Date of Issue: 01.01.2007	0.1g/l
		Identification	CFSL/KOL/CHEM/WPM/01; Issue No. 01 Date of Issue: 01.01.2007 (Thin Layer Chromatography/ UV-Visible Spectrophotometry/ Infra-red Spectroscopy)	0.1g/l to 1.0 µg/l
5.	<b>Other Narcotic Drugs and Psychotropic substances</b>	Identification	CFSL/KOL/CHEM/WPM/01 ; Issue No. 01 Date of Issue: 01.01.2007 (Thin Layer Chromatography/ Gas Chromatography –Mass Spectrometry/ UV-Spectroscopy Infra Red Spectroscopy)	0.1g/l to 1.0 µg/l
<b>VI. QUESTIONED DOCUMENTS</b>				
1.	<b>Handwritings in originals &amp; in reproduced copies</b>	Physical Examination Microscopic Examination, Physical Matching, Use of different light sources in examination of alterations	Working Procedure Manual No. CFSL/KOL/DOCU/WPM Issue No. 02, Date of Issue. 16-08-2012 Chapter 6 to 8 & ASTM Standards E-2290-07A	Qualitative
2.	<b>Alteration in Documents</b>		Working Procedure Manual No. CFSL/KOL/DOCU/WPM Issue No. 02, Date of Issue. 16-08-2012 Chapter 9 & ASTM Standards E-2290-03	Qualitative

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3.	Printed Materials		Working Procedure Manual No. CFSL/KOL/DOCU/WPM Issue No. 02, Date of Issue. 16-08-2012 Chapter 10 & ASTM Standards E-2389-05	Qualitative
4.	Type written Materials		Working Procedure Manual No. CFSL/KOL/DOCU/WPM Issue No. 02, Date of Issue. 16-08-2012 Chapter 12 & ASTM Standards E-2494-07	Qualitative
5.	Stamp Impressions		Working Procedure Manual No. CFSL/KOL/DOCU/WPM Issue No. 02, Date of Issue. 16-08-2012 Chapter 16 to 17 & ASTM Standards E-2286-07, E2289-03	Qualitative
6.	Paper		Working Procedure Manual No. CFSL/KOL/DOCU/WPM Issue No. 02, Date of Issue – 16-08-2012 Chapter 15 & ASTM Standards E-2325-05	Qualitative
7.	Ink		Working Procedure Manual No. CFSL/KOL/DOCU/WPM Issue No. 02, Date of Issue. 16-08-2012 Chapter 18 ASTM Standards E-1789-04	Qualitative
8.	Toner in Documents produced by DTP Process		Working Procedure Manual No. CFSL/KOL/DOCU/WPM Issue No. 02, Date of Issue. 16-08-2012 Chapter 13 to 14 & ASTM Standards E-2390-06, E2389-05	Qualitative

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<b>VII.</b>	<b>EXPLOSIVES</b>			
<b>1.</b>	<b>Solid / liquid substances, Solid Powder, debris materials and post explosion residues for detection of Explosives , cations, anions and elements tested for</b>			
	<b>Nitrate ion</b>	(Griess Reagent + Zn dust) Test	CFSL/KOL/EXP/WPM Issue No. 01; Date of Issue: 01.01.2007	3.33mg/ml
	<b>Sulphide ion</b>	Sodium Nitroprusside Test		3.33mg/ml
	<b>Potassium ion</b>	Sodium Cobalt nitrite Test		0.0333 mg/ml
	<b>Ammonium ion</b>	Nessler's Reagent Test		3.33 x 10 <sup>-6</sup> mg/ml
	<b>Arsenic ion</b>	Reinsch's Test		0.033 mg/ml
	<b>Sulphur (Pyridine extract)</b>	Pyridine + NaOH Test		0.333 mg/ml
	<b>Aluminium (NaOH extract)</b>	Alizarine-S Test		0.333 mg/ml

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2.	<b>Organic Explosives Components</b>			
a.	<b>TNT</b>	Colour Test (Alcoholic KOH )	CFSL/KOL/EXP/WPM Issue No. 01; Date of Issue: 01.01.2007	Qualitative
		Identification	CFSL/KOL/EXP/WPM Issue No. 01; Date of Issue: 01.01.2007 (Thin Layer Chromatography/ HPLC/Gas Chromatography – Mass Spectrometry)	m/z ions:210,89,63, 30,134,193,180,149,76, 62.
b.	<b>RDX</b>	Color test (Thymol + H <sub>2</sub> SO <sub>4</sub> +Ethanol )	CFSL/KOL/EXP/WPM Issue No. 01; Date of Issue: 01.01.2007	Qualitative
		Identification	CFSL/KOL/EXP/WPM Issue No. 01; Date of Issue: 01.01.2007 (Thin Layer Chromatography/ HPLC/Gas Chromatography – Mass Spectrometry)	m/z ions: 46,30,120,42,75,44,128, 56,71,41.
c.	<b>PETN</b>	Color test (Di phenyl amine)	CFSL/KOL/EXP/WPM Issue No. 01; Date of Issue: 01.01.2007	Qualitative
		Identification	CFSL/KOL/EXP/WPM Issue No. 01; Date of Issue: 01.01.2007 (Thin Layer Chromatography/ HPLC/Gas Chromatography – Mass Spectrometry)	m/z ions: 76,46,57,55,56,60,43,47, 97,71.

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<b>d.</b>	<b>TETRYL</b>	Colour Test (Alcoholic KOH)	CFSL/KOL/EXP/WPM Issue No. 01; Date of Issue: 01.01.2007	Qualitative
		Identification	CFSL/KOL/EXP/WPM Issue No. 01; Date of Issue: 01.01.2007 (Thin Layer Chromatography/ HPLC/Gas Chromatography – Mass Spectrometry)	m/z ions: 30, 241, 75, 46, 91, 181, 77, 76, 90, 62
<b>e.</b>	<b>NG</b>	Colour Test (Alcoholic KOH)	CFSL/KOL/EXP/WPM Issue No. 01; Date of Issue: 01.01.2007	Qualitative
		Identification	CFSL/KOL/EXP/WPM Issue No. 01; Date of Issue: 01.01.2007 (Thin Layer Chromatography/ HPLC/Gas Chromatography – Mass Spectrometry)	m/z ions: 46, 76, 30, 58, 44, 43, 31, 117, 64, 89.
<b>VIII. PHYSICS</b>				
<b>1.</b>	<b>Tool marks (metal, fabrics, wood)</b>	Physical comparison	Working Procedure Manual Physics WPM – Physics-1 Issue No. 01 Date of Issue: 01.01.2007	Qualitative
		Photography		
		Microscopic examination		
		Test impression comparison		

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2.	<b>Soil (Identification of source correspondence comparison)</b>	Physical comparison Photography Microscopic examination Particle size distribution Density Gradient Analysis	Working Procedure Manual Physics WPM – Physics-1 Issue No. 01 Date of Issue: 01.01.2007	Qualitative
3.	<b>Broken objects (Broken parts of material like wood, metal, glass)</b>	Physical comparison Photography Microscopic examination Physical Matching	Working Procedure Manual Physics WPM – Physics-1 Issue No. 01 Date of Issue: 01.01.2007	Qualitative
4.	<b>Impression (Lottery Ticket, Counterfeit Currency, Copy Right / Trademark goods, foot / Tyre impressions)</b>	Physical comparison Photography Microscopic examination Fluorescence Optical character analysis	Working Procedure Manual Physics WPM – Physics-1 Issue No. 01 Date of Issue: 01.01.2007	Qualitative
5.	<b>Restoration of erased identification marks</b>	Photography Microscopic examination (Chemical Etching)	Working Procedure Manual Physics WPM – Physics-1 Issue No. 01 Date of Issue: 01.01.2007	Qualitative

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<b>Discipline</b>	<b>Forensic Testing</b>	<b>Issue Date</b>	<b>20.11.2015</b>
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<b>S. No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
<b>IX. TOXICOLOGY</b>				
<b>1.</b>	<b>Viscera sample, blood, gastric lavage &amp; poisons containing Methyl alcohol</b>	Color test (Chromotropic acid)	Working Procedure Manual No. CFSL/KOL/TOX/WPM Issue No 01, Date of Issue: 01.01.2007	2 mg/ml
<b>2.</b>	<b>Ethyl alcohol</b>	Identification	Working Procedure Manual No. CFSL/KOL/TOX/WPM Issue No 01, Date of Issue: 01.01.2007 (Head space Gas chromatography-Mass Spectrometry)	2 µg/ml
		Iodoform test	Working Procedure Manual No. CFSL/KOL/TOX/WPM Issue No 01, Date of Issue: 01.01.2007	2 mg/ml
		Sulphomolybdic acid test	Working Procedure Manual No. CFSL/KOL/TOX/WPM Issue No 01, Date of Issue: 01.01.2007	2 mg/ml
		Identification	Working Procedure Manual No. CFSL/KOL/TOX/WPM Issue No 01, Date of Issue: 01.01.2007 (Head space Gas chromatography-Mass Spectrometry)	2 µg/ml

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<b>S. No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
3.	<b>Phosphide</b>	Color test (Mercuric Chloride)	Working Procedure Manual No. CFSL/KOL/TOX/WPM Issue No 01, Date of Issue: 01.01.2007	2 µg/ml
4.	<b>Cyanide</b>	Color test (Ferric thiocyanate )	Working Procedure Manual No. CFSL/KOL/TOX/WPM Issue No 01, Date of Issue: 01.01.2007	2 mg/ml
5.	<b>Viscera sample, blood, gastric lavage having Arsenic, Mercury, Bismuth, Copper, Antimony, Lead, Aluminium, Zinc, Nitrate, Bromide, Iodide, Sulphate, Chromate, Flouride &amp; Chloride</b>	Reinsch Test, Potassium Chromate; Sodium Stannite; Ammonium hydroxide Test, Rhodamine-B; Dithizone Test, Dil. Nitric acid test, Aluminone test, Alizarin Test & Potassium ferrocyanide test	Working Procedure Manual No. CFSL/KOL/TOX/WPM Issue No 01, Date of Issue: 01.01.2007)	2 mg/ml
		Copper Sulphate Test, Sulphanalic acid test, Silver Nitrate test, Lead acetate test & Barium Chloride test.	Working Procedure Manual No. CFSL/KOL/TOX/WPM Issue No 01, Date of Issue: 01.01.2007	2 mg/ml
		Identification	Working Procedure Manual No. CFSL/KOL/TOX/WPM Issue No 01, Date of Issue: 01.01.2007 (ICP-Mass spectrometry and Atomic Absorption Spectroscopy)	2 µg/ml



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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
6.	<b>Viscera sample, blood, gastric lavage, containing Insecticides. Malathion, parathion, Endosulfan, Iso-propoxur Allethrin &amp; Cypermethrin</b>	Color test (Fast Blue B salt & Tollens reagent)	Working Procedure Manual No. CFSL/KOL/TOX/WPM Issue No 01, Date of Issue: 01.01.2007	2 mg/ml
		Identification	Working Procedure Manual No. CFSL/KOL/TOX/WPM Issue No 01, Date of Issue: 01.01.2007 (Thin layer chromatography/ Gas chromatographic -mass spectrometry)	0.1 g/l to 1.0 µg/l
7.	<b>Viscera sample, blood, gastric lavage containing alkaloids , Benzodiazepines, Barbiturates, Paracetamol</b>	Color test (Dragon droffs & Forrest reagent.)	Working Procedure Manual No. CFSL/KOL/TOX/WPM Issue No 01, Date of Issue: 01.01.2007	2 mg/ml
		Identification	Working Procedure Manual No. CFSL/KOL/TOX/WPM Issue No 01, Date of Issue: 01.01.2007 (Thin layer Chromatography/ Gas chromatography-mass spectrometry)	0.1 g/l to 1.0 µg/l
8.	<b>Viscera sample, blood, gastric lavage &amp; poisons containing glass powder, diamond powder, hair</b>	Microscopic examination & Flame test	Working Procedure Manual No. CFSL/KOL/TOX/WPM Issue No 01, Date of Issue: 01.01.2007	Qualitative

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