

Laboratory	Central Forensic Science Laboratory, Directorate of Forensic Science Services, MHA, GOI, Ramanthapur, Hyderabad, Telangana		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Forensic Testing	Issue Date	01.11.2015
Certificate Number	T-0289	Valid Until	31.10.2017
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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
I.	BALLISTICS			
1.	Firearms	Examination of Firearms or Parts Thereof/Manufacturing Tool by Checking of Components and Test Firing	Working procedure Manual Ballistics Doc. 11, Issue No:3 Issue date :5.7.2013	Qualitative
		Examination of Serviceability / Working Condition of Firearm by Test Firing.	Working procedure Manual Ballistics Doc. 11, Issue No:3 Issue date :5.7.2013	Qualitative
		Examination of Fire Arm Prone to Accidental Discharge by Trigger Pull Test, Drop Test, Checking of Components	Working procedure Manual Ballistics Doc. 11, Issue No:3 Issue date :5.7.2013	Qualitative
		Examination of Firearm To Ensure Whether Their Parts Are Tampered With or Not by Checking of Components	Working procedure Manual Ballistics Doc. 11, Issue No:3 Issue date :5.7.2013	Qualitative
		Identification of Firearm for Type, Make and Model by Checking of Trade Marks, Proof Marks, Serial Nos., Measurement of Physical Dimensions	Working procedure Manual Ballistics Doc. 11, Issue No:3 Issue date :5.7.2013	Qualitative
		Restoration of Erased Marks on Firearms by Checking of Components	Working procedure Manual Ballistics Doc. 11, Issue No:3 Issue date :5.7.2013	Qualitative
		Barrel Wash Examination by Chemical Tests	Working procedure Manual Ballistics Doc. 11, Issue No:3 Issue date :5.7.2013	Nitrite-0.01 ug Lead-0.1 ug

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2.	Ammunition/ Part Thereof	Examination of Firearms or Parts Thereof/Manufacturing Tool by Checking of Components and Test Firing	Working procedure Manual Ballistics Doc. 11, Issue No:3 Issue date :5.7.2013	Qualitative
		Identification of Ammunition/ Parts Thereof For Type, Make and Caliber by Class Characteristic Tests	Working procedure Manual Ballistics Doc. 11, Issue No:3 Issue date :5.7.2013	Qualitative
		Identification of Bullets/Slug/ Parts Thereof by Class Characteristic Tests	Working procedure Manual Ballistics Doc. 11, Issue No:3 Issue date :5.7.2013	Qualitative
		Identification of Shots and Pellets by Physical Tests	Working procedure Manual Ballistics Doc. 11, Issue No:3 Issue date :5.7.2013	Qualitative
		Identification of Wads and Wad Pieces by Physical Tests	Working procedure Manual Ballistics Doc. 11, Issue No:3 Issue date :5.7.2013	Qualitative
		Identification of Propellant Charge by Physical and Chemical Tests	Working procedure Manual Ballistics Doc. 11, Issue No:3 Issue date :5.7.2013	Nitrite-0.01 ug Lead-0.1 ug
3.	Fired Bullet Cartridge Cases For Identification and Linkage	Linkage of Fired /Misfired Cartridges by Test Firing Microscopic Examination, Measurement of Physical Dimension and Comparison.	Working procedure Manual Ballistics Doc. 11, Issue No:3 Issue date :5.7.2013	Magnification range- 4 x to 80 x

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	Fired Bullet Cartridge Cases For Identification and Linkage	Linkage of Fired Bullet/Bullet Fragments With Rifled Firearm by Test Firing, Microscopic Examination, Measurement of Physical Dimensions and Comparison	Working procedure Manual Ballistics Doc. 11, Issue No:3 Issue date :5.7.2013	Qualitative
		Linkage of Fired Bullet Fragments With Smooth Bore/ Unrifled Firearm by Test Firing, Microscopic Examination, and Measurement of Physical Dimensions and Comparison	Working procedure Manual Ballistics Doc. 11, Issue No:3 Issue date :5.7.2013	Qualitative
4.	Target/Tissue Material	Examination of Target Involved in Shooting by-Physical/ Microscopic Examination For Presence of GSR Pattern and Chemical Tests	Working procedure Manual Ballistics Doc. 11, Issue No:3 Issue date :5.7.2013	Nitrite-0.01 ug Lead-0.1 ug
		Measurement of Wound Ballistics Parameter By, Test Firing, on Simulated Targets and Wound Ballistics Studies	Working procedure Manual Ballistics Doc. 11, Issue No:3 Issue date :5.7.2013	Qualitative
5.	Gun Shot Residues	GSR Analysis by SEM-EDXRA	Working procedure Manual Ballistics Doc. 11, Issue No:3 Issue date :5.7.2013	Magnification range 15 x to 300 kx Resolution of EDX- 133 ev.
II. BIOLOGY				
1.	Blood	Benzidine Test Gel Diffusion Test Blood Grouping Test	Working procedure Manual Biology Doc. 12, Issue No 4 Issue Date: 31.7.2013	Qualitative

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2.	Semen	Acid Phosphatase Test. Microscopical Identification. P.30 Semen Specific Protein Test	Working procedure Manual Biology Doc. 12, Issue No 4 Issue Date: 31.7.2013	Qualitative
3.	Saliva	Starch Amylase Test	Working procedure Manual Biology Doc. 12, Issue No 4 Issue Date: 31.7.2013	Qualitative
4.	Hair/Fibre	Microscopic Examination	Working procedure Manual Biology Doc. 12, Issue No 4 Issue Date: 31.7.2013	Qualitative
5.	Diatoms	Microscopy	Working procedure Manual Biology Doc. 12, Issue No 4 Issue Date: 31.7.2013	Qualitative
6.	Urine	Creatinine Test	Working procedure Manual Biology Doc. 12, Issue No 4 Issue Date: 31.7.2013	Qualitative
7.	Vaginal Fluids	Lugol's Iodine	Working procedure Manual Biology Doc. 12, Issue No 4 Issue Date: 31.7.2013	Qualitative
8.	Faecal Matter	Urobilinogen Test	Working procedure Manual Biology Doc. 12, Issue No 4 Issue Date: 31.7.2013	Qualitative

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III. DNA FINGER PRINTING				
1.	Fresh Liquid Blood, Teeth, Bone, Hair, Semen/Saliva Stains, Nail Clippings, Blood Stains, Vaginal Swabs, Urethral Swabs, Materials With Any Biological Stainc	PCR Based STR Analysis of Nuclear DNA For Their Relatedness Y-Chromosomal DNA For Their Relatedness Gender Determination	Working procedure Manual DNA Typing ,Doc. 19 Issue No 3 Issue Date: 31.7.2013	0.5 ng to 5 ng of DNA
IV. CHEMISTRY				
1.	Alcohol (Liquor, Ethanol)	Examination of alcohol	Working Procedure Manual Chemistry Doc. 13, Issue No 4 Issue Date: 8.8.2013 (Gas Chromatography, specific gravity)	10 to 100 µg /ml 1 to 10% of alcohol v/v and proof spirit 1 to 10 µg/ml
2.	Acid and Alkalies	Examination of Acid Alkali Throwing Cases	Working Procedure Manual Chemistry Doc. 13, Issue No 4 Issue Date: 8.8.2013	1 to 14
3.	Hydrocarbon and Fire Debris (Arson Case)	Detection of Petroleum Products Like Petrol, Kerosene, Diesel Etc. & Their Residues in Fire Debris	Working Procedure Manual Chemistry Doc. 13, Issue No 4 Issue Date: 8.8.2013 (Gas Chromatography, Thin Layer Chromatography)	Qualitative
4.	Petroleum Products	Examination of Petroleum Products For Their Identification & Their Genuinity	Working Procedure Manual Chemistry Doc. 13, Issue No 4 Issue Date: 8.8.201	Qualitative

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5.	Dyes and Pigments (Trap Cases)	Detection of Phenolphthalein, Sodium Ions, Carbonate Ions Etc.	Working Procedure Manual Chemistry Doc. 13, Issue No 4 Issue Date: 8.8.2013	1 to 14
6.	Oils and Fats	Detection and Comparison of Vegetable & Fatty Oils	Working Procedure Manual Chemistry Doc. 13, Issue No 4 Issue Date: 8.8.2013	Qualitative
7.	Metals and Alloys Cu, Zn, Sn, Ag, Au, Brass, Bronze	Analysis of Major Elements Present in The Metals & Alloys	Working Procedure Manual Chemistry Doc. 13, Issue No 4 Issue Date: 8.8.2013	100 to 1000 µg /ml 10 to 1000 ng /ml
V. NARCOTICS				
1.	Opium, Morphine & Poppy Straw , Heroin Cocaine, Amphetamine/ Methamphetamine, Methaqualone/ Mecloqualone, Barbiturates, Benzodiazepines, Mescaline, Lysergide (Lsd), Psilocybin/ Psilocin	Analysis of Cocaine in Crime Exhibits Colour Tests	Working Procedure Manual Chemistry (Part 1) Doc. 13 Dated. 14.8.2013 (Gas Chromatography, Thin Layer Chromatography, TLC, HPLC, GC-MS, UV- VIS Spectrophotometry. IR/FT-IR, LC MS)	1 Milligram /ml 200 microgram /ml 100 nanogram/ml
2.	Cannabis Product Charas, Ganja, Bhang	Analysis of Cannabis Products in Crime Exhibits	Working Procedure Manual Chemistry (Part 1) Doc. 13 Dated. 14.8.2013 (Gas Chromatography, Thin Layer Chromatography, TLC, HPLC, GC-MS, UV- VIS Spectrophotometry. IR/FT-IR, LC MS)	1 Milligram/ml 200 microgram/ml 100 nanogram/ml

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VI.	EXPLOSIVES			
1.	Explosives/ Explosive Debris TNT,RDX,HMX,P ETN,NG,Tetryl	Detection	Working Procedure Manual Explosives Doc. 16 , Issue No 3 Issue Date: 13.6.2013 (TLC, GC-MS,FTIR)	10 ug to 100 ug
2.	Inorganic Explosives/ Ingredients Chloride, Sulphate Nitrate, Nitrite Chlorate, Thio Cyanate, Thio Sulphate, Perchlorate Phosphate, Ammonium, Arsenic, Antimony Aluminium, Sulphur, Phosphorus, Carbon Sodium, Potassium, Barium, Calcium, Strontium, Magnesium	Detection	Working Procedure Manual Explosives Doc. 16 , Issue No 3 Issue Date: 13.6.2013 Dated. 13.6.2013	50 ug to 100 ug
3.	Diffused and Post Blast Low & High Explosives	Detection	Working Procedure Manual Explosives Doc. 16, Issue No 3 Issue Date: 13.6.2013	10 ug to 100 ug
4.	Pyrotechnics (as mentioned in Sr. No 1 and 2)	Detection and Identification of Ingredients	Working Procedure Manual Explosives Doc. 16, Issue No 3 Issue Date: 13.6.2013 (FTIR)	20 ug to 50 ug

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VII. PHYSICS				
1.	Tool Marks & Impressions	Identification & Comparison of Known and Questioned Marks and Impressions	Working Procedure Manual Physics, Doc.17 Issue No 3 Issue Date : 24.7..2013	Qualitative
2.	Foot Prints & Shoe Prints	Identification & Comparison of Known and Questioned Foot Impression/ Footwear/Foot Casting /Prints	Working Procedure Manual Physics, Doc.17 Issue No 3 Issue Date : 24.7..2013	Qualitative
3.	Tyre Prints	Identification & Comparison of Known and Questioned Tyre Impression/Tyre Casting / Tyreprints	Working Procedure Manual Physics ,Doc.17 Issue No 3 Issue Date : 24.7..2013	Qualitative
4.	Cement, Concrete & Mortar	Identification For Quality and Adulteration	Working Procedure Manual Physics, Doc.17 Issue No 3 Issue Date : 24.7..2013	Qualitative
5.	Glass	Identification and Comparison of Known and Questioned Broken Glass Pieces.	Working Procedure Manual Physics ,Doc.17 Issue No 3 Issue Date : 24.7..2013	Qualitative
6.	Soil	Comparison of Known and Questioned Samples	Working Procedure Manual Physics, Doc.17 Issue No 3 Issue Date : 24.7..2013	Qualitative
7.	Electrical Failures	Cause of Fire Due To Electrical Failures – Short Circuit Cables/Wires	Working Procedure Manual Physics, Doc.17 Issue No 3 Issue Date : 24.7..2013	Qualitative

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8.	Restoration of Numbers/Impressions on Metals and Non-Metals	Comparison of Known & Questioned Samples	Working Procedure Manual Physics, Doc.17 Issue No 3 Issue Date : 24.7..2013	Qualitative
9.	Paints and Pigments	Comparison of Known & Questioned Samples	Working Procedure Manual Physics, Doc.17 Issue No 3 Issue Date : 24.7..2013	Qualitative
10.	Fibres and Fabric	Comparison of Known and Questioned Samples.	Working Procedure Manual Physics, Doc.17 Issue No 3 Issue Date : 24.7..2013	Qualitative
11.	Broken and Severed Parts	Comparison of Broken Pieces From Known and Questioned Parts.	Working Procedure Manual Physics, Doc.17 Issue No 3 Issue Date : 24.7..2013	Qualitative
12.	Counterfiet Currency Notes	Examination of Counterfiet Currency Notes. Bank Notes.	Working Procedure Manual Physics, Doc.17 Issue No 3 Issue Date : 24.7..2013	Qualitative

VIII. TOXICOLOGY

1.	Visceral Material (Stomach and Intestine With Contents, Liver, Spleen, Kidney, Lungs, Brain, Heart)	Detection of Poison/Drugs Qualitative Analysis of Poisons/Drugs	Working Procedure Manual Toxicology Doc. 18, Issue No 4 Issue Date: 1.7.2013	1 µg/ml to 100 µg/ml 10 ng/ml to 100 ng/ml
2.	Blood, Urine and Stomach Aspirate	Detection of Poison/Drugs	Working Procedure Manual Toxicology Doc. 18, Issue No 4 Issue Date: 1.7.2013	1 µg/ml to 100 µg/ml 10 ng/ml to 100 ng/ml

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	Blood, Urine Drunkenness Cases	Detection by Iodoform Tests and Potassium Dichromate Test and Quantitative Estimation By	Working Procedure Manual Toxicology Doc. 18 , Issue No 4 Issue Date: 1.7.2013 (Kozelka and Hines Method, Gas Chromatography)	0.08 milligram/ml microgram/ml (LOD) 0.03 milligram/ml (LOD)
3.	Nail, Hair and Bone	Detection of Metallic Poison	Working Procedure Manual Toxicology Doc. 18, Issue No 4 Issue Date: 1.7.2013	10 µg /ml to 100 µg/ml
4.	Remnants/Control of the Poisons/ Drugs As Such or Associated With Various Matrices	Qualitative and Quantitative Analysis of Poisonous and Drugs	Working Procedure Manual Toxicology Doc. 18, Issue No 4 Issue Date: 1.7.2013	1 µg /ml to 100 µg /ml 10 ng/ml to 100 ng/ml
IX. FORENSIC DOCUMENT-QUESTIONED DOCUMENTS				
1.	Handwritten Items	Examination of Handwritten Items	Working Procedure Manual Documents, Doc. 14, Issue No 1 Issue Date. 5.7.2012	Qualitative
2.	Indentations	Examination of Indentations	Working Procedure Manual Documents, Doc. 14, Issue No 1 Issue Date. 5.7.2012	Qualitative
3.	Paper	Examination of Paper (Non-Destructive)	Working Procedure Manual Documents, Doc. 14, Issue No 1 Issue Date. 5.7.2012	Qualitative
4.	Altered Documents	Examination of Altered Documents	Working Procedure Manual Documents, Doc. 14, Issue No 1 Issue Date. 5.7.2012	Qualitative

