National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CENTRAL FORENSIC SCIENCE LABORATORY, CFI COMPLEX, RAMANTHAPUR, MEDCHAL MALKAJGIRI, HYDERABAD, TELANGANA, INDIA

Accreditation Standard ISO/IEC 17025:2017

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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	FORENSIC- BIOLOGICAL SCIENCES	Blood	Catalytic test for detection of peroxidase.	Working Procedure Manual Biology Doc 12, Issue No 5
2	FORENSIC- BIOLOGICAL SCIENCES	Blood	Immunochromatographic test for detection of human glycophorin A.	Working Procedure Manual Biology Doc 12, Issue No 5
3	FORENSIC- BIOLOGICAL SCIENCES	Blood	Immunochromatographic test for detection of human haemoglobin.	Working Procedure Manual Biology Doc 12, Issue No 5
4	FORENSIC- BIOLOGICAL SCIENCES	DNA Extracts from Physiological fluids and biological materials	Quantitative Real Time PCR	Working Procedure Manual DNA Doc 19, Issue No 1
5	FORENSIC- BIOLOGICAL SCIENCES	PCR amplified products	Capillary Electrophoresis of PCR amplified products generated by Autosomal and Gonosomal Short Tandem Repeats (STR) testing.	Working Procedure Manual DNA Doc 19, Issue No 1
6	FORENSIC- BIOLOGICAL SCIENCES	Physiological and biological materials, from case exhibits: Blood & Saliva, Body fluid stains, Surface & Buccal swabs Tissues Sexual assault specimens, Exogenous nail, DNA Bone & Teeth, Chewing Gum, Cigarette Butts, FTA Card Nail clippings & Hair roots, Paper & Stamps	DNA extraction using organic extraction with phenol-chloroform; inorganic extraction with silica columns.	Working Procedure Manual DNA Document No. 19, Issue 1
7	FORENSIC- BIOLOGICAL SCIENCES	Saliva	Catalytic test for detection of alpha- amylase.	Working Procedure Manual Biology Doc 12, Issue No 5
8	FORENSIC- BIOLOGICAL SCIENCES	Semen	Catalytic test for detection of acid phosphatase.	Working Procedure Manual Biology Doc 12, Issue No 5
9	FORENSIC- BIOLOGICAL SCIENCES	Semen	Immunochromatographic test for detection of Prostrate Specific Antigen (PSA)	Working Procedure Manual Biology Doc 12, Issue No 5
10	FORENSIC- BIOLOGICAL SCIENCES	Semen	Microscopic examination for detection of spermatozoa.	Working Procedure Manual Biology Doc 12, Issue No 5
11	FORENSIC- CHEMICAL SCIENCES	Acid and Alkalies	i. pH paper test for identification of acid or base, ii. Test for chloride, iii. Test for sulphate, iv. Test for nitrate	Working Procedure Manual General Chemistry Doc.13. Issue No.5
12	FORENSIC- CHEMICAL SCIENCES	Alcohol (Liquor, Ethanol)	i. Iodoform test for the detection of ethyl alcohol, ii. Dichromate test for the detection of ethyl alcohol, iii. Chromotropic acid test for the detection of methanol.	Working Procedure Manual General Chemistry Doc.13. Issue No.5

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13	FORENSIC- CHEMICAL SCIENCES	Cannabis Products Charas, ganja, Bhang	Detection of cannabinoids i. Fast Blue B Salt test ii. Duquenois- Levine test	WPM NDPS Doc.No.20 Issue No:05 (GCMS)
14	FORENSIC- CHEMICAL SCIENCES	Diffused and post blast Low & High Explosives	Chemical Tests for High Explosives i. RDX by Thymol Test ii. PETN by Diphenylamine Test iii. TNT by Alcoholic KOH Test iv. NG by Thymol test	Working Procedure Manual Explosives Doc. No.16, Issue No.04 (TLC, FTIR, HPLC)
15	FORENSIC- CHEMICAL SCIENCES	Diffused and Post blast low & high explosives	Chemical Tests for Low Explosives: Aluminium by Morin & Quinalizarin, Sulphur by Sodium Hydroxide, Phosphorous by Ammonium Molybdate, Sodium by Uranyl Zinc acetate, Potassium by Sodium Cobaltinitrite, Barium by Sodium Rhodizonate, Calcium by Sodium Rhodizonate, Storntium by Sodium Rhodizonate, Magnesium by Magneson I Reagent.	Working Procedure Manual Explosives Doc. No.16, Issue No.04 (TLC, FTIR, HPLC)
16	FORENSIC- CHEMICAL SCIENCES	Diffused and Post blast low & high explosives	Chemical Tests for Low Explosives: Chloride by Silver Nitrate, Sulphate by Barium Chloride, Nitrite, Nitrate by Griess reagent, Chlorate by Manganous Sulphate & Aniline Sulphate, Thicyanate by Cobalt Nitrate, Thiosulphate by Mercuric Chloride, Perchlorate by Methylene blue & Zinc Sulphate, Phosphate by Ammonium Molybdate, Ammonium by Nesslers reagent, Arsenic by Reinch & Gueitz tests, Antimony by Rhodamine B & Sodium Nitrite	Working Procedure Manual Explosives Doc. No.16, Issue No.04 (TLC, FTIR, HPLC)
17	FORENSIC- CHEMICAL SCIENCES	Ethanol in blood & urine	Detection of ethanol by iodoform tests, potassium dichromate test	WPM Toxicology Doc No -18, Issue No.05
18	FORENSIC- CHEMICAL SCIENCES	Ethanol in blood & urine	Quantitative estimation of ethanol by Kozelka - Hines method	WPM Toxicology Doc No -18, Issue No.05 (GC)

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19	FORENSIC- CHEMICAL SCIENCES	Explosives/ Explosive debris	Chemical test for the detection of High Explosives i. RDX by Thymol Test ii. PETN by Diphenylamine Test iii. TNT by Alcoholic KOH Test iv. NG by Thymol test	Working Procedure Manual Explosives Doc. No.16, Issue No.04 (TLC , FTIR, HPLC)
20	FORENSIC- CHEMICAL SCIENCES	Explosives/ Explosive debris	Chemical Tests for Low Explosives i. Chloride by Silver Nitrate ii. Sulphate by Barium Chloride iii. Nitrite, Nitrate by Griess reagent iv. Chlorate by Manganous Sulphate & Aniline Sulphate v. Thicyanate by Cobalt Nitrate Vi. Thiosulphate by Mercuric Chloride vii. Perchlorate by Methylene blue & Zinc Sulphate viii. Phosphate by Ammonium Molybdate	Working Procedure Manual Explosives Doc. No.16, Issue No.04 (TLC , FTIR, HPLC)
21	FORENSIC- CHEMICAL SCIENCES	Explosives/ Explosive debris	Chemical Tests for Low Explosives: ix. Ammonium by Nesslers reagent x. Arsenic by Reinch & Gueitz tests xi. Antimony by Rhodamine B & Sodium Nitrite xii. Aluminium by Morin & Quinalizarin xiii. Sulphur by Sodium Hydroxide xiv. Phosphorous by Ammonium Molybdate xv. Sodium by Uranyl Zinc acetate xvi. Potassium by Sodium Cobaltinitrite xvii. Barium by Sodium Rhodizonate xviii. Calcium by Sodium Rhodizonate xix. Storntium by Sodium Rhodizonate xx. Magnesium by Magneson I Reagent.	Working Procedure Manual Explosives Doc. No.16, Issue No.04 (TLC , FTIR, HPLC)
22	FORENSIC- CHEMICAL SCIENCES	Hydrocarbon and Fire Debris (Arson Case)	Detection and Identification of: i..Petrol Residue ii. Kerosene Residue iii. Diesel Residue	Working Procedure Manual General Chemistry Doc.13. Issue No.5 (Gas Chromatography)

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23	FORENSIC- CHEMICAL SCIENCES	Ingredients of Pyrotechnic Compositions	Chemical Tests i. Chloride by Silver Nitrate ii. Sulphate by Barium Chloride iii. Nitrite, Nitrate by Griess reagent iv. Chlorate by Manganous Sulphate & Aniline Sulphate v. Thicyanate by Cobalt Nitrate Vi. Thiosulphate by Mercuric Chloride vii. Perchlorate by Methylene blue & Zinc Sulphate viii. Phosphate by Ammonium Molybdate ix. Ammonium by Nesslers reagent x. Arsenic by Reinch & Gueitz tests	Working Procedure Manual Explosives Doc. No.16, Issue No.04
24	FORENSIC- CHEMICAL SCIENCES	Ingredients of Pyrotechnic Compositions	Chemical Tests xi. Antimony by Rhodamine B & Sodium Nitrite xii. Aluminium by Morin & Quinalizarin xiii. Sulphur by Sodium Hydroxide xiv. Phosphorous by Ammonium Molybdate xv. Sodium by Uranyl Zinc acetate xvi. Potassium by Sodium Cobaltinitrite xvii. Barium by Sodium Rhodizonate xviii. Calcium by Sodium Rhodizonate xix. Storntium by Sodium Rhodizonate xx. Magnesium by Magneson I Reagent.	Working Procedure Manual Explosives Doc. No.16, Issue No.04

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25	FORENSIC- CHEMICAL SCIENCES	Inorganic Explosives / Ingredients i. Chloride ii. Sulphate iii. Nitrite, Nitrate iv. Chlorate v. Thiocyanate vi. Thiosulphate vii. Perchlorate viii. Phosphate ix. Ammonium x. Arsenic xi. Antimony xii. Aluminium xiii.Sulphur xiv. Phosphorus xv. Sodium xvi. Potassium xvii.Barium xviii.Calcium xix. Storntium xx. Magnesium	Chemical test for the detection of ions : Silver Nitrate, Barium Chloride, Griess reagent, Manganous Sulphate & Aniline Sulphate, Cobalt Nitrate, Mercuric Chloride, Methylene blue & Zinc Sulphate, Ammonium Molybdate, Nesslers reagent, Reinch & Gueitz tests, Rhodamine B & Sodium Nitrite, Morin & Quinalizarin, Sodium Hydroxide, Ammonium Molybdate, Uranyl Zinc acetate, Sodium Cobaltinitrite, Sodium Rhodizonate, Sodium Rhodizonate, Sodium Rhodizonate, Magneson I Reagent	Working Procedure Manual Explosives Doc. No.16, Issue No.04
26	FORENSIC- CHEMICAL SCIENCES	Miscellaneous Exhibits	Identification of compound by i. Color test ii. pH paper test	Working Procedure Manual General Chemistry Doc.13. Issue No.5 (GCMS)
27	FORENSIC- CHEMICAL SCIENCES	Opium, Morphine & Poppy straw, Heroin, Codeine, Thebaine, Cocaine, Amphetamine, Methamphetamine, MDMA, Mephedrone, Methaqualone/ Mecloqualone, Barbiturates, Benzodiazepines, Mescaline Lysergide (LSD) Psilocybin/Psilocin Psychotropic substances	Detection of narcotic drugs by: i. Marquis test ii. Scott's test, Simon's test iii. Cobalt thiocyanate test iv. Ehrlich reagent test v. Meck's test	WPM NDPS Doc.No.20 Issue No:05 (by i. GCMS ii. UV-VIS Spectrophotometry)
28	FORENSIC- CHEMICAL SCIENCES	Petroleum Products	Identification of i. Petrol ii. Kerosene iii. Diesel iv. Naphtha	Working Procedure Manual General Chemistry Doc.13. Issue No.5 (Gas Chromatography)
29	FORENSIC- CHEMICAL SCIENCES	Trap Cases	Detection of phenolphthalein, sodium and carbonate by: i. pH paper test, ii. Barium Chloride test, iii. Silver Nitrate test, iv. Zinc Uranyl acetate test	Working Procedure Manual General Chemistry Doc.13. Issue No.5 (i. Thin Layer Chromatography ii. UV-VIS Spectrophotometry)
30	FORENSIC- CHEMICAL SCIENCES	Visceral material including stomach and intestine with contents, liver, spleen, kidney and blood	Detection of poison by Physico-chemical and Chromatographic methods	WPM Toxicology Doc No -18, Issue No.05 (TLC, GC, GC-MS)
31	FORENSIC- FORENSIC ELECTRONICS & COMPUTER FORENSICS	Mobile Phones	Manual, logical legal level, file system level, physical level, JTAG and ISP data extraction with forensic software and hardware tools.	Working Procedure Manual Digital Forensics Doc No.15, Issue No. 02

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32	FORENSIC- FORENSIC ELECTRONICS & COMPUTER FORENSICS	Secondary Storage Devices	Analysis of various data artifacts after retrieval of active files and recovery of inactive files from the secondary storage devices (magnetic, optical and electronic devices) on acquiring bit-stream forensic backup using forensic hardware and software tools.	Working Procedure Manual Digital Forensics Doc No.15 Issue No.02
33	FORENSIC- PHYSICAL SCIENCES	Altered/Tampered Documents	Examination under various light conditions for decipherment of alterations and tamperings.	Working Procedure Manual Documents Doc No.14 Issue No.03
34	FORENSIC- PHYSICAL SCIENCES	Ammunition/Parts Thereof	Checking of components for Manufacturing details and test firing	Working Procedure Manual Ballistics Doc No. 11, Issue 4
35	FORENSIC- PHYSICAL SCIENCES	Ammunition/Parts Thereof	Identification for Type, Make and Calibre by Class Characteristics Examination	Working Procedure Manual Ballistics Doc No. 11, Issue 4
36	FORENSIC- PHYSICAL SCIENCES	Ammunition/Parts Thereof	Identification of Bullets/Slug/Parts by Class Characteristics Examination	Working Procedure Manual Ballistics Doc No. 11, Issue 4
37	FORENSIC- PHYSICAL SCIENCES	Ammunition/Parts Thereof	Identification of Propellant Charge : Barrel Wash Examination by Chemical Tests i.Nitrite test, ii.Lead test	Working Procedure Manual Ballistics Doc No. 11, Issue 4
38	FORENSIC- PHYSICAL SCIENCES	Ammunition/Parts Thereof	Identification of Shots and Pellets by Physical Tests	Working Procedure Manual Ballistics Doc No. 11, Issue 4
39	FORENSIC- PHYSICAL SCIENCES	Ammunition/Parts Thereof	Identification of Wads and Wad Pieces by Physical Tests	Working Procedure Manual Ballistics Doc No. 11, Issue 4
40	FORENSIC- PHYSICAL SCIENCES	Broken and Severed parts/Objects	Physical or mechanical fit. Microscopic continuity test.	WPM PHYSICS, DOC NO.-17 ISSUE NO.-04
41	FORENSIC- PHYSICAL SCIENCES	Cement, concrete and Mortar	Bromoform test, fineness test, ignition test, gravimetric test.	WPM PHYSICS, DOC NO.-17 ISSUE NO.-04
42	FORENSIC- PHYSICAL SCIENCES	Counterfeit Currency Note	Physical measurement, Examination of security features under various light conditions and microscopic examination..	WPM PHYSICS, DOC NO.-17 ISSUE NO.-04

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43	FORENSIC- PHYSICAL SCIENCES	Documents produced with toner technology	Examination under various light conditions and magnifications for identification of originality or otherwise.	Working Procedure Manual Documents Doc No.14 Issue No.03
44	FORENSIC- PHYSICAL SCIENCES	Dry Seal Impressions	Superimposition studies for ascertaining the identity of seal impressions.	Working Procedure Manual Documents Doc No.14 Issue No.03
45	FORENSIC- PHYSICAL SCIENCES	Electrical Cable and Wires	physical tests, Microscopic examination	WPM PHYSICS, DOC NO.-17 ISSUE NO.-04
46	FORENSIC- PHYSICAL SCIENCES	Fibers and Fabrics	Microscopic examination, burning test, physical matching, solubility test, FTIR analysis.	WPM PHYSICS, DOC NO.-17 ISSUE NO.-04
47	FORENSIC- PHYSICAL SCIENCES	Firearms	Barrel Wash Examination by Chemical Tests -i. Nitrite test ii. Lead test	Working Procedure Manual Ballistics Doc No. 11, Issue 4
48	FORENSIC- PHYSICAL SCIENCES	Firearms	Examination of firearm or parts by checking of components whether they are tampered or not	Working Procedure Manual Ballistics Doc No. 11, Issue 4
49	FORENSIC- PHYSICAL SCIENCES	Firearms	Examination of Firearm Prone to Accidental Discharge by Trigger Pull Test, Drop Test, Checking of Components	Working Procedure Manual Ballistics Doc No. 11, Issue 4
50	FORENSIC- PHYSICAL SCIENCES	Firearms	Examination of firearms or parts for manufacturing details by checking of components and test firing	Working Procedure Manual Ballistics Doc No. 11, Issue 4
51	FORENSIC- PHYSICAL SCIENCES	Firearms	Examination of Serviceability/ Working Condition of Firearm by Test Firing	Working Procedure Manual Ballistics Doc No. 11, Issue 4
52	FORENSIC- PHYSICAL SCIENCES	Firearms	Identification of Firearm for Type, Make and Model by Checking of Trade Marks, Proof Marks, Serial Numbers, Measurement of Physical Dimensions	Working Procedure Manual Ballistics Doc No. 11, Issue 4
53	FORENSIC- PHYSICAL SCIENCES	Firearms	Restoration of Erased Marks on Firearms by Checking of Components	Working Procedure Manual Ballistics Doc No. 11, Issue 4

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54	FORENSIC- PHYSICAL SCIENCES	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 No. 11, Issue 4
55	FORENSIC- PHYSICAL SCIENCES	Fired Bullet/Cartridge Cases for Identification and Linkage	Linkage of Fired Bullet/Bullet Fragments with Smooth Bore/ Unrifled Firearm by Test Firing, Microscopic Examination, Measurement of Physical Dimensions and Comparison	Working Procedure Manual Ballistics Doc No. 11, Issue 4
56	FORENSIC- PHYSICAL SCIENCES	Fired Bullet/Cartridge Cases for Identification and Linkage	Linkage of Fired/Misfired Cartridges by Test Firing, Microscopic Examination, Measurement of Physical Dimensions and Comparison (Magnification Range – 4X to 80X)	Working Procedure Manual Ballistics Doc No. 11, Issue 4
57	FORENSIC- PHYSICAL SCIENCES	Foot/Footwear/ Tyre marks	Physical measurements of Foot / Footwear / Tyre marks. Individual characteristic features: :Identification & Comparison of known and Questioned marks and impression/ footwear/foot casting/prints/ tyre casting/ tyre prints.	WPM PHYSICS, DOC NO.-17 ISSUE NO.-04
58	FORENSIC- PHYSICAL SCIENCES	Glass	physical measurements, fluorescence test, density and refractive index measurements.	WPM PHYSICS, DOC NO.-17 ISSUE NO.-04
59	FORENSIC- PHYSICAL SCIENCES	Handwritten items	Comparison of general and individual writing characteristics to ascertain genuinity or otherwise.	Working Procedure Manual Documents Doc No.14 Issue No.03
60	FORENSIC- PHYSICAL SCIENCES	Identification marks	chemical etching, microscopic methods, photographic techniques.	WPM PHYSICS, DOC NO.-17 ISSUE NO.-04
61	FORENSIC- PHYSICAL SCIENCES	Indentations	Examination under oblique light to decipher the indented writings.	Working Procedure Manual Documents Doc No.14 Issue No.03
62	FORENSIC- PHYSICAL SCIENCES	Miscellaneous items	Physical test, microscopic examination.	WPM PHYSICS, DOC NO.-17 ISSUE NO.-04

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63	FORENSIC- PHYSICAL SCIENCES	Paint	physical matching, microscopic examination, UV Fluoroscence, FT-IR.	WPM PHYSICS, DOC NO.-17 ISSUE NO.-04
64	FORENSIC- PHYSICAL SCIENCES	Paper & Ink (Non-destructive)	Examination of Paper and Ink under various light conditions and magnifications to identify their nature.	Working Procedure Manual Documents Doc No.14 Issue No.03
65	FORENSIC- PHYSICAL SCIENCES	Paper cuts; tear perforations	Microscopic examination of serrations and projections to determine their physical match or otherwise.	Working Procedure Manual Documents Doc No.14 Issue No.03
66	FORENSIC- PHYSICAL SCIENCES	Papers	Examination of paper under various light conditions,magnifications and physical measurements.	WPM PHYSICS, DOC NO.-17 ISSUE NO.-04
67	FORENSIC- PHYSICAL SCIENCES	Rubber Stamps	Superimposition studies for ascertaining the identity of rubber stamp impressions.	Working Procedure Manual Documents Doc No.14 Issue No.03
68	FORENSIC- PHYSICAL SCIENCES	Soil	Physical tests, microscopic examination, sieving test, density gradient distribution test, ignition test.	WPM PHYSICS, DOC NO.-17 ISSUE NO.-04
69	FORENSIC- PHYSICAL SCIENCES	Target/Tissue Material	Examination of Target involved in Shooting by Physical/Microscopic Examination for Presence of GSR Pattern and Chemical Tests - a. Nitrite b. Lead	Working Procedure Manual Ballistics Doc No. 11, Issue 4
70	FORENSIC- PHYSICAL SCIENCES	Target/Tissue Material	Measurement of Wound Ballistics Parameter by Test Firing on Simulated Targets and Wound Ballistic Studies	Working Procedure Manual Ballistics Doc No. 11, Issue 4
71	FORENSIC- PHYSICAL SCIENCES	Tool Marks and Impression	microscopic examination, physical test.	WPM PHYSICS, DOC NO.-17 ISSUE NO.-04