National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : DIRECTORATE OF FORENSIC SCIENCE, SECTOR-18/A, GANDHINAGAR, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-6556 **Page No** 1 of 7

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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, semen, hair with root, tissue sample, bone	DNA Isolation	DFS (G) WP DNA
2	FORENSIC- BIOLOGICAL SCIENCES	blood, semen, tissue, tooth	Genotyping Capillary Electrophoresis	DFS (G) WP DNA
3	FORENSIC- BIOLOGICAL SCIENCES	blood, semen, tooth, tissue	STR Amplification by using PCR gene specific primers	DFS (G) WP DNA
4	FORENSIC- BIOLOGICAL SCIENCES	blood, semen, tooth, tissues	Quantification	DFS (G) WP DNA
5	FORENSIC- BIOLOGICAL SCIENCES	Detection & Origin of Biological fluids and tissues.	Biological Examination: Blood Detection Test 1. TMB Test 2. Kastle Mayer Test 3. Hematin Crystal Test Semen Detection Test 1. UV Test 2. Acid Phosphatase Test 3. Crystal Test 4. Microscopic examination Saliva Detection Test 1. Amylase Test Serological Examination Origin of Species Identification 1. Gel diffusion Test 2. Cross over electrophoresis Test ABO Blood Group Typing 1. Absoption Elution Method	DFS (G) WP Biology, DFS (G) WP Serology
6	FORENSIC- CHEMICAL SCIENCES	Alcohols & other selected items related to excise cases.	a. Colour test, Specific for individual group of Alcohols etc. b. Specific gravity method c GC-HS instrumental methods	DFS (G) WP Chemistry
7	FORENSIC- CHEMICAL SCIENCES	Arson cases examination	Identification of traces of petroleum/inflammables in the arson exhibits a. Chemical Test b. TLC c. Gas Chromatography	DFS (G) WP Chemistry
8	FORENSIC- CHEMICAL SCIENCES	Blood / Urine Samples	Ethyl Alcohol	As DFS (G) WP CHEM 3 (BA)
9	FORENSIC- CHEMICAL SCIENCES	Ganja, Charas, Cannabis Preparation	A. Colour test B. Botanical Examination, TLC, GC-MS	UNO Procedure Manuals 2 DFS (G) WP NARCOTICS, Working Procedure Manual for Narcotics & Psychotropic Subs. Clarke's analysis of drugs and poisons

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10	FORENSIC- CHEMICAL SCIENCES	Heroin/ Crude heroin/Brown Sugar, Morphine,Methaqualone Barbiturates & Its Derivatives Benzo-Diazapines & Its Derivatives Cocaine Amphetamine/ Metha Amphetamine Miscellaneous Drugs e.g. such as Paracetamol, Brufen, Diclofenac, Caffeine etc.	. Colour test, TLC/ GC / GC-MS / HPLC / FTIR / UV	As per Standard UNO Procedure Manuals 2 DFS (G) WP NARCOTICS, Working Procedure Manual for Narcotics & Psychotropic Subs Clarke's analysis of drugs and poisons
11	FORENSIC- CHEMICAL SCIENCES	High Explosive (exploded & unexploded)	a. Colour tests specific for different types of high explosive. b TLC Separation technique c HPLC technique d UV-VIS Spectrophotometric technique. e GC-MS/ LC-MS technique. f FTIR Technique g Gas Chromatographic technique(for fuel oil or other type of oils present in the high explosives if any) Identification by qualitative analysis	DFS (G) WP CHEM 1 & Working Procedure Manual on explosive DFS Ministry of Home Affairs, New Delhi
12	FORENSIC- CHEMICAL SCIENCES	HSD/LDO	Kinematic Viscosity @ 40 deg centigrade	IS:1448 (P-25), ASTM D445
13	FORENSIC- CHEMICAL SCIENCES	HSD/SKO/LDO/ FO	Flash Point	IS 1448 (P-20) ,IS 1448 (P-21), ASTM D93
14	FORENSIC- CHEMICAL SCIENCES	Low Explosives (exploded & unexploded) & Pyro - technic materials etc.	a. Chemical colour test b. TLC	DFS (G) WP CHEM 1 & Working Procedure Manual on explosive, DFS Ministry of Home Affairs, New Delhi
15	FORENSIC- CHEMICAL SCIENCES	MS	Benzene content	ASTM D 3606
16	FORENSIC- CHEMICAL SCIENCES	MS/HSD/SKO/ SOLVENT	Distillation	IS 1448 (P 18) / ASTM D 86
17	FORENSIC- CHEMICAL SCIENCES	MS/HSD/SKO/LDO/ FO/SOLVENTS	Density	IS 1448 (P 16) & ASTM D1298 2012b
18	FORENSIC- CHEMICAL SCIENCES	Narcotics/ Psychotropic Substances Cannabis Plant	A. Botanical Examination B. Colour test, GC MS, TLC	UNO Procedure Manuals 2 DFS (G) WP NARCOTICS 3 Working Procedure Manual for Narcotics & Psychotropic Subs. DFS Ministry of Home Govt of India Clarke's analysis of drugs and poisons
19	FORENSIC- CHEMICAL SCIENCES	Nicotine in Tobacco Cases	A. Chemical Test B. TLC C. GC / GC-MS / HPLC / FTIR / UV	DFS (G) WP Chemistry

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20	FORENSIC- CHEMICAL SCIENCES	Opium & its derivatives	A. Colour test B. Botanical Examination C. Quantitation of Morphine by HPLC	As per Standard UNO Procedure , 3 Working Procedure Manual for Narcotics & Psychotropic Subs. Manuals 2 DFS (G) WP NARCOTICS Clarke's analysis of drugs and poisons
21	FORENSIC- CHEMICAL SCIENCES	Pharmaceutical Products & drugs	A. Chemical Test B. TLC C. GC / GC-MS / HPLC / FTIR / UV	DFS (G) WP Chemistry
22	FORENSIC- CHEMICAL SCIENCES	Poppy Straw	A. Colour test B. Botanical Examination GC MS, TLC	1 As per Standard UNO Procedure Manuals 2 DFS (G) WP NARCOTICS, 3 Working Procedure Manual for Narcotics & Psychotropic Subs
23	FORENSIC- CHEMICAL SCIENCES	SKO	Smoke point	IS 1448 (P-31) ASTM D 1322 12E
24	FORENSIC- CRIME SCENE MANAGEMENT	Narcotics Drugs and associated material	Spot colour test 1. Mayers` reagent (test forgeneral narcotic alkaloid) 2. Marquis reagent(test for opiates and amphetamines) 3. Mecke`s reagent(test for heroin) 4. Nitric acid(test todifferemtiate Morphine from Heroin) 5. Sodium Nitroprusside reagent (test forMethaphatamine) 6. Methaqualone reagent (test formethaqualone) 7. Duquenois reagent(test forMarihuana,Hashish, Hashish oil, and THC) 8. Cocain HCL and freeBase (crack) reagent (test forcocain) 9. Dille-Koppanyl reagent(test for Barbitura	DFS (G) SOP Mob Chem 01
25	FORENSIC- FORENSIC ELECTRONICS & COMPUTER FORENSICS	Digital storage media like Hard disk, USB devices, floppy disk, CD, DVD, cell phones, SIM card, PDA.	1. Retrieval of Content of digital storage media. 2. Retrieval of Deleted data/ tampered data. 3. Creaking of password etc. 4. Retrieval of data from Cell phone/ SIM Card	DFS G WP Computer Forensic

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26	FORENSIC- FORENSIC PSYCHOLOGY	Live Human Subjects, i.e. Suspects/Accused, Witness, Complaint/Victim	Varacity of statement 1. Polygraph test 2. BEOS test for verification of veracity of statement of the Suspects/Accused, Witness, Complainant/Victim 3. Narco analysis (To reveal the information)	DFS G WP Forensic Psychology
27	FORENSIC- PHYSICAL SCIENCES	Comparison of paper including stamp paper /stamps & other security/legal papers	Physical examination -Color - Size -Weight - Fluorescence UV - Water mark - Fiber direction - Printing defects -Stereo Microscopy -UV Light - Transmitted Light Spectroscopy	DFS G WP (Q.D)based on DFS Manual Sr. No. 18-20 page No. 66-72
28	FORENSIC- PHYSICAL SCIENCES	Counterfeit Currency	Identification& Comparison of known (control) and questioned (forged) currency	DFS G WP Physics
29	FORENSIC- PHYSICAL SCIENCES	Determination of age of document	Relative age Water mark Chronological variation in writing/ signature Other related marks on the paper Stereo microscopy Spectroscopy	DFS G WP (Q.D)based upon DFS manual
30	FORENSIC- PHYSICAL SCIENCES	Examination of carbon paper, ribbon, stencil etc.	Physical examination Transmitted light Stereo microscopy, Photography,	DFS G WP (Q.D)based upon DFS Manual Sr. No. 09, 14 page No. 27-34, 53-56
31	FORENSIC- PHYSICAL SCIENCES	Examination of charred documents	Physical examination & retrieval Stereo microscopy Photography in different light sources Retrieval using polymers/ hardeners	DFS G WP (Q.D)based upon DFS manual sr. No. 10 page No. 35-45
32	FORENSIC- PHYSICAL SCIENCES	Examination of credit card, travel documents	Physical examination Security features Paper examination, Thread examination Stereo microscopy	DFS G WP (Q.D)based upon DFS manual sr. No. 11 page No. 46-47
33	FORENSIC- PHYSICAL SCIENCES	Examination of indented writings	Physical examination Electrostatic Detection of Apparatus (ESDA) Oblique light photography	DFS G WP (Q.D) based upon DFS manual Sr. No. 10 page No. 35-45
34	FORENSIC- PHYSICAL SCIENCES	Examination of lottery ticket	Security printing Hand magnifier Stereo microscopy Photography in different light sources Spectroscopy)	DFS G WP (Q.D)based upon DFS Manual Sr. No. 17 page No. 64-65

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35	FORENSIC- PHYSICAL SCIENCES	Examination of sequence of strokes	Physical examination Stereo microscopy Spectroscopy	DFS G WP (Q.D)based upon DFS manual Sr. No. 22 page No. 78-81
36	FORENSIC- PHYSICAL SCIENCES	Examination of stamp impressions and seal comparison	Physical examination -Color - Size Fluorescence UV Stereo microscopy Photography in different light sources Side-by-side comparison & superimposition , Spectroscopy	DFS G WP (Q.D)based on DFS Manual Sr. No. 18 page No. 66-67
37	FORENSIC- PHYSICAL SCIENCES	Examination of typewriting, printed matter, computer printouts, Photo copies identification	Printing defects Hand magnifier Stereo microscopy Photography in different light sources Spectroscopy Side-by-side comparison & superimposition method	DFS G WP (Q.D) based upon DFS Manual Sr. No. 12 to 17 page No. 48-65
38	FORENSIC- PHYSICAL SCIENCES	Firearm	Identification (Physical examination Appearance, trade mark)	Laboratory Working Procedure Manual DFS-G-Ballistics
39	FORENSIC- PHYSICAL SCIENCES	Gun shot residues	Identification of shooter and bullet hole: chemical test: Spot test	Laboratory Working Procedure Manual DFS-G-Ballistics
40	FORENSIC- PHYSICAL SCIENCES	Handwriting/ Signatures Identification, Detection of forgery	Individual writing characteristics Hand magnifier, Stereo microscopy	DFS-G-WP- (Q.D) based upon DFS manual Sr. No. 6 to 9 page No. 8-34
41	FORENSIC- PHYSICAL SCIENCES	Latent/ Chance print at scene of crime	developing & Lifting of prints at scene of crime. Update Unsolved Latent print DB & Matching with Rolled print DB of AFIS. • Scanning / uploading of CP photograph • Quality check • Submission • Verification • Update of Untraced chance prints.	As per Fingerprint Manual DFS-G-Fingerprint based upon fingerprint manual of NCRB
42	FORENSIC- PHYSICAL SCIENCES	Pellets, bullets, cartridge cases, cartridge and its components	Identification and comparison. (Physical examination, test firing and microscopic examination and comparison)	Laboratory Working Procedure Manual DFS-G-Ballistics
43	FORENSIC- PHYSICAL SCIENCES	Pellets, bullets, cartridge cases, cartridge and its components	Physical Dimension- Diameter	Laboratory Working Procedure Manual DFS-G-Ballistics
44	FORENSIC- PHYSICAL SCIENCES	Pellets, bullets, cartridge cases, cartridge and its components	Weight	Laboratory Working Procedure Manual DFS-G-Ballistics

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45	FORENSIC- PHYSICAL SCIENCES	Target Material	1. Identification of projectile mark/ hole: Chemical test. Spot test 2. Determination of rage of fire 3. Directionof firing and sequence of firing. 4. Evaluation of fire arm injury and wound ballistics parameters	Laboratory Working Procedure Manual DFS-G-Ballistics
46	FORENSIC- PHYSICAL SCIENCES	Ten digit Finger print slip of Arrested Criminals.	Automated Finger print identification based on Henry Finger print classification system. Matching with Database • Scanning of Slips • Quality check • Verification • Submission for Update	As per Fingerprint Manual DFS-G-Fingerprint based upon fingerprint manual of NCRB
47	FORENSIC- PHYSICAL SCIENCES	Ten digit Finger print slip of convicted Criminals.	Update Database in AFIS. • Scanning of Slips • Quality check • Verification • Submission for Update	As per Fingerprint Manual DFS-G-Fingerprint based upon fingerprint manual of NCRB
48	FORENSIC- PHYSICAL SCIENCES	Voice analysis	Identification& comparison of questioned voice& known (control) voice of person(s)	DFS G WP Physics

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Mobile Facility				
1	FORENSIC- CRIME SCENE MANAGEMENT	Acid and Alkalies	1.Free Acid test 2. Acidity& Basicity 3. For PH	DFS (G) SOP Mob Chem 01
2	FORENSIC- CRIME SCENE MANAGEMENT	Body fluids and their stains at the scene of crime	Preliminary Tests to identify different body fluids or stains viz. Spot Test: 1. Kastle – Meyer Test 2. Acid Phosphatase Spot Test	DFS (G) SOP Mob.Bio, DFS (G) SOP Mob.Sero
3	FORENSIC- CRIME SCENE MANAGEMENT	Building Material	1. Physical Examination	DFS (G) WP Phy Sci(mobile)
4	FORENSIC- CRIME SCENE MANAGEMENT	Electrical wire, fuse	1 Physical Examination	DFS (G) WP Phy Sci (mobile)
5	FORENSIC- CRIME SCENE MANAGEMENT	Explosive material	Identification Group-A Nitro aromatics (T.N.T., Tetryl,T.N.B.) Group-B Nitro esters and Nitro amines. (RDX,Semtex, Dynamite, Smokeless powder) Group-C Inorganic Nitrate based Explosives (ANFO, Black powder)	DFS (G) SOP Mob Chem 01
6	FORENSIC- CRIME SCENE MANAGEMENT	Glass, Paint Metal, spot of occurrence, footprints/ shoe prints/ tyre prints	1. Physical Examination	DFS (G) WP Phy Sci (mobile)
7	FORENSIC- CRIME SCENE MANAGEMENT	Latent/ Chance print at scene of crime	Lifting & developing of prints at scene of crime. Update Unsolved Latent print DB & Matching with Rolled print DB of AFIS. • Scanning of CP • Quality check • Submission • Verification • Update of Untraced chance prints.	DFS-G-Fingerprint based upon fingerprint manual of NCRB
8	FORENSIC- CRIME SCENE MANAGEMENT	Meat, Blood and Weapons	Preliminary Tests to identify different body fluids or stains viz. 1. TMB Test/ Kastle – Meyer Test – Spot Test 2. Test for Origin of Species viz. Cross – over Electrophoresis method& Precipitin Tube Method.	DFS (G) SOP MOB CM 1
9	FORENSIC- CRIME SCENE MANAGEMENT	Small armFireArm Weapon, Cartridge, Bullet, wads	Spot Color Test Physical Measurement	DFS (G) WP Phy Sci (mobile)