



International Quality And Accreditation Services Pvt. Ltd.

(Formerly International Quality And Accreditation Services LLP)

307/20, 2nd Lane No. 5A, Ranjit Nagar, New Delhi 110008, India

IQAS-026

Information on Classification of Product Categories in Testing, Calibration Field and Reference Materials

**International Quality and Accreditation Services Pvt. Ltd.
(Formerly International Quality And Accreditation Services LLP)**

Doc. No.: IQAS-026	Title: Information on Classification of Product Categories in Testing , Calibration Field & and Reference Materials			
Issue No.:02	Issue Date:04.12.2024	Amend. No.: 01	Amend. Date: 21.12.2024	Page 1 of 51



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AMENDMENT SHEET

Sr. No.	Page No.	Clause No.	Date of Amendment	Reasons of amendment	Amendment details	Remark	Approved by
1.	41 to 51	7	21.12.2024	Improvement	Addition of RM categories		R S Rana
2.							
3.							

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1. Objective

This covers group and sub-groups of Calibration, Testing and Reference Materials.

2. Scope

This document applies to all applicant and accredited laboratories by IQAS in the field of testing and calibration as per ISO/IEC 17025:2017 and reference materials as per ISO/IEC 17034:2016.

3. Responsibility

All applicant and accredited CABs.

4. Introduction:

This is a guidance document which will help laboratories to define its scope as per the recommended classification of product groups across Testing, Calibration fields and Reference Materials. Further, this document in no ways implies that IQAS grants accreditation for these defined product group(s) only, rather it facilitates the laboratory to categorize its testing/ calibration and reference materials activities & calculation of fees while submission of application towards accreditation.

Note: - Please refer IQAS 001 for Fee Structure

5. Introduction of product group under calibration

5.1 Chemical Discipline

Product Groups in Chemical Calibration

5.1.1 Calibration of equipment like

pH meter	Breath alcohol tester
Conductivity meter	Oxygen Reduction Potential (ORP) meter
Total Dissolved Solids (TDS) meter	Gas detector/analyzer
Turbidity meter	Stack emission analyzer
Dissolved Oxygen	Flame Photometer
Refractive Index	Elisa Reader
Salinity tester	Others

5.2 Electro-technical Discipline

(Product Groups for Electro Technical)

5.2.1 Alternating Current (< 1 GHz)

Attenuation	FM Modulation
Capacitance	AM Modulation
Current	Phase angle
Dielectric loss angle	Power
Dissipation factor	Power factor
Energy	Resistance
Distortion	Reflection Coefficient
Dissipation factor	Voltage
Inductance	High Voltage (1 kV and above)
Impedance	Voltage & current ratio
Others	

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5.2.2 Direct Current

Current	Voltage
Power	High Voltage (1 kV and above)
Resistance	Voltage & current ratio
Capacitance	Others
Inductance	

5.2.3 RF/Microwave (1 GHz and Above)

Impedance	Attenuation
FM Modulation	VSWR
AM Modulation	Others
Power	

5.2.4 Time & Frequency

Frequency counters	L.F. frequency
Frequency meters	Microwave/RF frequency
H.F. frequency	Stop watches
Time interval	Timers
Others	

5.2.5 EMI/ EMC

Antenna Factor	Impulse/ Immunity Generator
Attenuation	Insertion Loss/ RF Attenuation
Automotive Transient Generator	Impedance
Coupling Factor/ Coupling Loss Directivity	Longitudinal conversion Loss
Conducted RF Test System	Preamplifier Gain
Combination Wave Surge Test System	Phase angle
Damped Oscillatory Wave Generator	RF Power Amplifier
Decoupling of Common Mode Disturbance	Ring Wave Generator
Electrostatic Discharge	Telecom Surge Test System
Electrical Fast Transients	Return loss (VSWR)
EMI Test Receiver	Voltage Dips/ Interruptions
Isolation	Voltage Division Factor
Impulse Voltage	Others

5.2.6 Electrical equipment

Current Transformers	pH meter (Simulation method)
Voltage Transformers	Conductivity Meter (Simulation method)
Oscilloscopes	Turbidity Meter (Simulation method)
Bridges	Oxidation Reduction Potential Meter (Simulation method)
CT-VT Comparator	Others
Oscilloscope	

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5.2.7 Temperature Simulation

5.2.8 Miscellaneous

5.3 FLUID FLOW DISCIPLINE

(Product Groups for Fluid Flow)

5.3.1 Flow Measuring Devices

Anemometers	Top Loading Calibrator
Gas flow meters	Turbine Meter
Liquid flow meters	Orifice Plates
Orifice meters	Flow Nozzles
Pitot tubes	Averaging Pitot Tubes
Ford Cup	Venturi Meters
Flow Cup	Others
Rotameter	

5.3.2 Miscellaneous

5.4 MECHANICAL DISCIPLINE

Product Groups for Mechanical Calibration

5.4.1 Dimension (Basic-Measuring Instrument, Gauges etc.)

Linear - Measuring Instruments	Depth Micrometers,
Vernier & Digital Calipers,	Micrometer Head
External Micrometers,	Micrometer Setting Pieces
Bench Micrometer & Micrometer Head, Bore Gauges, Stick Micrometers, Tripoint Internal Micrometers, Depth Gauges, Dial Gauge, Steel Scales & Line Standards, Measuring Tape, PieTape, Extensometer)	Linear - Measuring Aids (Straight Edges, Engineers Parallels, Surface Plate (Cast Iron), Surface Plate (Granite), Angle Plates, Right Angle & Box Angle Plates, Engineers Square, Granite Squares, Cylindrical Square, V-Block, Welded V- Blocks, Universal and Elongated V-Blocks, Test Mandrels (Straight), Test Mandrels (Taper), Bench Centre, Vernier Height Gauge)
Angle Measuring Devices (Angle Gauges, Bevel Protractors, Combination Set, Sine Centre, Sine Bar & Sine Table, Spirit Levels, Frame Level, Electronic Level, Inclinator, Clinometers, Auto Collimator, Polygon Mirrors, Prisms, Rotary Table, Index Table, Rotary Calibrator)	Surface Topography Measuring Devices - (Surface Roughness Masters, Depth Masters, Radius Standards, Master Sphere For CMM, Optical Flats, Optical Parallels, Hemi-Sphere (Roundness Master), Magnification Master (Flick Standard), Master Cylinder, Cylindrical Square, Roughness Tester-Portable, Roughness Tester-Stand Alone, Contour Profiler, Roundness Tester, Form Tester)
Gauges	Others

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(Setting Master, Plug Gauges, Plug Gauges, Setting Master Ring Gauges, Ring Gauges, Snap Gauges, Taper Gauges)	
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5.4.2 Dimension (Precision- Precision Instruments and Surface Topology)

<p>Linear – Reference (Measuring) Equipment (Gauge Block Comparators, Microscope/ Universal Length Measuring Machine (ULM), Length Measuring Machine, Universal Measuring Microscope (UMM), Profile Projector, Bore Comparator, Dial Gauge Calibrator, Floating carriage Micrometer, Coordinate Measuring Machines, Laser Interferometer, Flatness Interferometer)</p>	<p>Linear & Form – Reference Equipment (Gauge Blocks, Gauge Block Accessories, Long Gauge Blocks, Length Bar, Step Gauges, Calliper Checker, Check Master, Height Setting Micrometers, Electronic Height Gauges, Height Master, Raiser Blocks, Cylindrical Setting Standards, Roundness Master S (Hemi-Sphere, Magnification Standard, Master Cylinder, Optical Flat), Surface Roughness Masters (Surface Masters, Depth Standard), Radius Standard/ Contour Master, Glass Scale, Graticule and Glass Grid)</p>
Others	

5.4.3 Mass and Volume

Mass (weights)	Weights (E1, E2 , F1, F2, M1, M2, M3)
Weighing Scale and Balance	Non-automatic Weighing Balances, Electronic Balances, Comparators, High Capacity Weighing Machines (above 50 kg)
Volume	Burettes
	Single-volume (One mark) pipettes
	Graduated pipettes
	One-mark volumetric flasks
	Graduated measuring cylinders
	Single –channel piston pipettes with air interface, Multi-channel piston pipettes, Positive –displacement pipettes, piston burettes, Diluters, Dispensers

5.4.4 Acceleration, & Speed/RPM

Accelerometer	Centrifuge
Speedometer	Vibration Machine/Table
Tachometer	Planetary Mixer

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Stroboscope	Flow Table
Speed Transducer / Sensor / Indicator	Others

5.4.5 Acoustics

Sound calibrators	Audiometers
Sound level meters	Others

5.4.6 Density and Viscosity

Density of solid and Density of liquid	Viscosity
Density of Solids, Density of standard weights	Calibration of Master Viscometer
Density of Liquids	Determination of kinematic and Dynamic Viscosity of liquids
Density Hydrometers	Calibration of Glass capillary Viscometers
Brix Hydrometers	Calibration of Rotational Viscometer
Baume Hydrometers	Calibration of flow Cups for determining efflux time –Paints, varnishes, lacquers and other viscous fluids
Twaddle Hydrometer	
Specific gravity Hydrometer (for liquid petroleum)	
Lactometer	
Alcoholometer	

5.4.7 Pressure and Vacuum

Pressure Balance/Dead Weight Tester	Hydraulic Dead Weight Testers/Pressure Balance
	Pneumatic Dead Weight Testers/Pressure Balance
	Vacuum/Absolute Dead Weight Testers/ Pressure Balance
Pressure Indicating Device	Precision Pressure Calibrator with pump (digital and Analog)
	Pressure transducer with digital pressure indicator
	Pressure transducer with Voltage, current or frequency output
	Pressure transmitters with Voltage (5 V,10 V....) , Current (4-20 mA, 0-20 mA,...) Digital format
	Industrial Pressure gauges with analog/digital indication.

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	Barometer
	Oxygen Pressure gauges
	Pressure Switches
	Magnahelic Gauge, Pirani Gauge
	Vacuum Gauge

5.4.8 Force

Force Proving Instruments	Load Cells, Proving Rings, Dead Weight
	Hydraulic Amplification
	Lever amplification
	Built up system force standard machine
UTM, Tension Creep and Torsion	Universal Testing Machines / Tensile Testing Machines / Compression Testing Machines
	Tension Creep Testing Machine
	Torsion testing Machine
Mobile Force Measuring System	Push Pull Gauge (Analog and Digital), Force Gauge

5.4.9 Torque

Torque Measuring Devices	Torque Measuring Devices (Electrical, Mechanical, Hydraulic, Optical torque measuring device)
Torque Generating Devices	Torque Generating Devices– (Type I & II)
	Hydraulic torque wrenches (Type –I)
	Torque Multipliers
	Continuously rotating pneumatic, electrical hydraulic and Oil pulse tools
	Handheld pneumatic assembly tools
	Hydraulic impulse tools
	Torque controlled DC nut runners
	Impact torque wrenches/Tools
Rotary and percussive pneumatic Tools	

5.4.10 Hardness & Impact

Duro Meter (Rubber Hardness Testers)	Rubber - Calibration and Verification of Hardness Testers - Durometers
Hardness Testing Machine	Rockwell Hardness, Brinell Hardness, Vickers Hardness, Knoop hardness,
	Rubber - Calibration and Verification of Hardness Testers - Durometers
Impact Testing Machine	Impact Testing Machine (Charpy)
	Impact Testing Machine (Izod)

5.5 MEDICAL DEVICES CALIBRATION

(Product group for Medical Devices)

5.5.1 Discharge Equipment/ Devices

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Suction Pump	Enteral Feeding Pump
Flow meter with Humidifier	CPAP
Pressure Gauge of Oxygen Cylinder	BiPAP
BP Apparatus (Sphygmomanometer)	Boyles Apparatus
Nebulizer (Electric)	Anesthesia Machine
Syringe Pump	Others
Infusion Pump	

5.5.2 Patient Conditioning/ Maintenance

Incubator	Heart Lung Machine
Autoclave	Patient Warmer
Defibrillator	OT Table
Ventilator	Radiant Warmer
Electro Surgical Unit/ Diathermy Machine/ Cautery Machine.	Irradiance Meter
External Pace Maker	Phototherapy Unit
Electronic Tourniquet	Others
Dialysis Machine	

5.5.3 Monitoring Unit

Patient Monitors	Weighing Scale
Apnea Monitors	Haematology Analyser
Fetal Monitor	Others
Therapeutic Stimulator	

5.5.4 Imaging/ Plotters

Trans illuminator light source	ECG
EEG	X-Ray Diagnostic Equipment
Fetal Doppler	Others

5.5.5 Medical Device Analyzer/ Simulator Equipment

Electrical Safety Analyzer	Electro Surgical Analyzer
Infusion Device Analyzer	Vital Sign Simulator
Incubator Analyzer	Patient Monitor Simulator
Defibrillator Analyzer	Others
Gas Flow Analyzer	

5.5.6 Miscellaneous

5.6 OPTICAL DISCIPLINE

(Product Groups for Optical Calibration)

5.6.1 Equipment

Ultraviolet radiometers	Optical and radiation detectors
Infrared radiometers	Others

5.6.2 Optical

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Attenuation	Lux Meter
Colour/Chromaticity co-ordinates	Power
Colour temperature	Radiance (UV/IR)
Distribution of luminous intensity	Radiant Power/ Radiant Flux
Illuminance	Transmittance
Irradiance	Spectral irradiance
Laser power & energy measurements	Spectral radiance
Length	Spectral reflectance
Luminance	Spectral responsivity
Luminous intensity	Wavelength
Luminous flux	Others

5.6.3 Miscellaneous

5.7 RADIOLOGICAL DISCIPLINE

(Product Groups for Radiological Calibration)

5.7.1 Radiological measurements

Radiation Dosimeters (e.g.-pocket dosimeter, chemical dosimeter, thermos luminescent dosimeter)	Radiation Monitors (e.g.-radiation survey meter, area gamma monitor)
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5.7.2 Radio Isotope/Source Calibration

5.7.3 Miscellaneous

5.8 THERMAL DISCIPLINE

Product Groups for Thermal Calibration

5. 8.1 Temperature

SPRT, PRT using Fixed Point Cell RTD sensors with/without indicator, Temperature Transmitter with/without indicator	Liquid-In-Glass Thermometer, Dial Temperature Gauge Indicator of Liquid bath, Furnace, Oven, Freezer, Dry block Bath, Cold Room, Chamber
Thermocouple with/without indicator	Liquid bath, Furnace, Oven, Freezer, , Cold Room, Environmental Chamber
Infrared radiation thermometer/ Pyrometer	Dry block Bath
Black Body Source	

5.8.2 Specific heat & Humidity

Absolute humidity	Humidity measuring devices	Specific heat of liquids
Dew point	Relative humidity	Specific heat of solids
Environmental chambers	Specific heat of gases	Others

5.8.3 Miscellaneous



6.0 Introduction of product group under testing

TESTING FIELD

6.1 BIOLOGICAL DISCIPLINE – (Product Groups for Biological Testing)

6.1.1 Animal Food & Feed

Animal Nutrition Supplements	Guar Meal
Aquaculture feed additives	Oil Cake
Aquaculture feed ingredients	Pet Foods
Cotton seed cake	Poultry feed additives
Fish, Shrimps, Prawn feed	Rapeseed Meal
Groundnut meal	Others

6.1.2 Antimicrobial activity Products

Adhesives Glues and Sealant	Soaps & Detergents
Fuels and Oils	Textiles & Fabrics
Lubricants	Toys and Other Children's Products
Packaging Materials	Water Miscible Products
Paints and surface coatings	Wood & Wooden Products
Pulp & Paper	Others

6.1.3 AYUSH product

Ayurvedic drugs	Siddha Drugs
Herbal formulations	Unani Drugs, Others
Homeopathic Drugs	others

6.1.4 Biocides

Algicides	Insecticides
Antiseptics	Sanitizers
Bactericides	Sporicides
Disinfectants	Viricides
Fungicides	Weedicides
Herbicides	Others

6.1.5 Biological Monitoring

Blood alcohol	Interferons
Drugs & Drug Metabolites	Others
Fluoride	



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6.1.6 Biological Tests on Other Miscellaneous Test Items

Adhesives Glues and Sealant	Soaps & Detergents
Fuels and Oils	Textiles & Fabrics
Lubricants	Toys and Other Children's Products
Packaging Materials	Wood & Wooden Products
Paints and surface coatings	Others
Pulp & Paper	

6.1.7 Biologically Derived Pharmaceuticals

Enzymes	Recombinant Proteins
Growth factors	Single Cell Proteins (SCP)
Hormones	Vaccines
Monoclonal Antibodies (MABs)	Others

6.1.8 Biopesticides and Biofertilizers

Others

6.1.9 Cell Culture

Cell permeability test	Others
Purity	

6.1.10 Cosmetics & Essential Oil

Perfumes	Hygiene products
Cosmetics	Others

6.1.11 Drugs and Pharmaceuticals

Antibiotics	Preservative efficacy
Bioassays of Other Products (Other Than Those Products Mentioned Above)	Non-Filterable Preparations Including Ointments
Chemotherapeutic Agents	Pyrogen tests
Drug Intermediates	Raw Materials
Drug Substances (Active Pharmaceuticals Ingredients (API))	Sterility tests
Endotoxins	Synthetic Drugs
Filtrable Solutions & Soluble Preparations	Veterinary Drugs
Immunological Products	Others
Microbial limit test	

6.1.12 Pollution & Environment

Air monitoring /surface swab	Soil
Bio burden Estimation of Classified and non-classified area	Solid waste
Effluents/Waste water	Others
Sewage	

6.1.13 Food and Agricultural Products

Bakery & Confectionery Products	Infant Foods
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Beverages (Alcoholic / Non-Alcoholic)	Jams, Juices, Sauces & Concentrates
Canned & Processed Foods	Meat & Meat Products
Cereals, Pulses & Cereal Products	Milk & Dairy Products (Except Human Milk)
Coffee & Cocoa Products	Natural Waxes
Edible Colors & Flavors	Nuts & Nut Products
Edible Oils & Fats	Oil Seeds & By-Products
Edible Salts	Poultry & Poultry Products
Eggs & Egg Products	Snacks and Instant Mixes
Essential Nutrients Including Vitamins	Starch & Starch Products
Food Additives & Preservatives	Sugar & Sugar Products
Fruit & Fruit Products	Tea
Gelatin and Other Gums	Tobacco & Tobacco Products
Herbs, Spices & Condiments	Vegetables & Vegetable Products
Honey & Honey Products	Others

6.1.14 Plant

Plants	Other
Plants Material	

6.1.15 GM (Genetically Modified) Products

Promoter & Terminator Screening	Quantitative Analysis
Qualitative Detection	Others

6.1.16 Industrial Cultures

Cultures for baking and brewing	Rhizobial Cultures
Dairy Starter Cultures	Starter cultures for Effluent Treatment Plant
Mushroom Spawn	Others
Probiotics Cultures	

6.1.17 Marine /Aqua culture Food Products

Artemia & Artemia Products	Oyster
Crab & Crab Products	Prawn & Prawn Products
Fish & Fish Products	Shrimps
Molecular identification of bacterial, fungal, viral pathogens	Others

6.1.18 Medical Accessories & Surgical products

Blood Bags	Hypodermic Needles
Catheter	Tubal Rings
Condoms	Others
Copper T	

6.1.19 Molecular Analysis (Tests for Various Matrices-Human, Plants, Animal, Microbial)

Bacterial Mutagenicity Tests	Genotyping
Bacterial/ fungal/viral Pathogen Detection	Next Gen- Sequencing

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Detection of adulterants	Sister Chromatid Exchange Tests
Fragment Analysis	Transformation Assays In Cell culture
Gene Expression /Gene Copy Number	Others
16S rDNA sequencing	

6.1.20 Nutraceuticals & Functional Foods

Carotenoids	Prebiotics
Dietary Fibres	Probiotics
Flavonoids	Soy Proteins
Fortified Food	Others
Phytoestrogens	

6.1.21 Nutritional Supplements

6.1.22 Plants and Plant Materials

Identification of Bacterial /Fungal/Viral Pathogens	Others
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6.1.23 Residue Analysis

Antibiotic residue analysis by micro assay	Others
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6.1.24 Resistance to Microbial Attack

Electrical Components	Textiles and Fabrics
Leather & Leather Products	Timber and Allied Material
Packaging Materials	Wood and Wood Products
Paints and surface coatings	Others

6.1.25 Seed Testing

Germination	Purity
GM Testing	Others

6.1.26 Toxicology

Acute Toxicity (oral, dermal, inhalation)	Mutagenicity (In -vitro)
Ame's test	Skin sensitization test
Cytogenetics	In vitro studies using cell culture/chick embryos
Cytotoxicity	Material mediated Pyrogenicity
Eye irritation test	Hemolytic properties of material (Hemocompatibility) Implantation (bone, muscle, Subcutaneous)
Mucous membrane irritation test	Other

6.1.27 Veterinary Testing

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Specified tests in biochemistry, Haematology, cytopathology, histopathology, serology, parasitology	Others
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6.1.28 Water

Distilled /Deminerlized Water	Water for industrial purpose
Drinking Water	Water for Medicinal Purposes
Ground Water/ Surface Water	Water for Processed Food Industry
Packaged Drinking Water	Water for Swimming Pool and Spas
Packaged Natural Mineral Water	Water from Purifiers
Water for Construction Purpose	Others

6.1.29 Wild Life Forensic

6.1.30 Miscellaneous

6.2 Chemical Testing (Product Groups for Chemical Testing)

6.2.1 Adhesives

Glues	Polymer based adhesives (Synthetic)
Natural gums	Starch based adhesives
Physical Properties	Others

6.2.2 Animal Food & Feeds

Animal Nutrition Supplements	Guar Meal
Aquaculture feed additives	Oil Cake
Aquaculture feed ingredients	Pet Foods
Cotton seed cake	Poultry feed additives
Fish, Shrimps, Prawn feed	Rapeseed Meal
Groundnut meal	Others

6.2.3 Atmospheric Pollution

Ambient Noise Levels (Excluding vibration)	Source Noise Levels (Excluding vibration) Particular Source to be specified
Ambient air	Stack emission
Fugitive emission	Vehicle emission
Meteorological Parameters	Work Environment and Indoor Air Quality
Process/Vent Emissions	Others

6.2.4 Ayush Products

Ayurvedic drugs	Siddha Drugs
Herbal formulations	Unani Drugs, Others
Homeopathic Drugs	others

6.2.5 Building Material

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Aggregates	Gypsum & its products
Bitumen & asphalts	Lime
Bricks & pre-casted blocks	Mortars
Cement	Pozzolanic materials
Ceramics	Refractory materials
Concrete	Sand
Construction chemicals	Water-proofing compounds
Fly ash	Others

6.2.6 Corrosion tests

Dezincification Tests	Other
Salt Spray Tests	

6.2.7 Cosmetics & Essential Oils

Aromatic chemicals	Herbal based cosmetics
Cosmetics	Intermediates and miscellaneous chemicals for cosmetics
Essential oils and other natural fragrant raw materials	Synthetic essential oils
Fragrances and Indian attars	Others

6.2.8 Drugs & Pharmaceuticals

Capsules	Oral Liquids
Chemical Methods	Oral Powders
Creams	Parenteral Preparations
Drug Substance (API)	Pharmaceutical Aid (Raw material except API)
Drops	Physical and Physiological Methods
Gels	Tablets
Hormones	Vitamins
Ointment	Others

6.2.9 Explosives & Pyrotechnics

Ammunitions	Physical Properties
Explosive chemicals & allied materials	Pyrotechnics
Industrial explosives & associated materials	Others

6.2.10 Fertilizers

Bio-Fertilizer	Macronutrients
Fertilizer Mixtures	Micronutrients
Fortified Fertilizers	Nitrogenous Fertilizers
Phosphatic Fertilizers	Other
Potassic Fertilizers	

6.2.11 Fire Fighting Equipment & Accessories

Aqueous film forming foam concentrates	Foam Concentrates
Dry Chemical Powder	Others

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6.2.12 Food & Agricultural Products

Bakery & Confectionery Products	Infant Foods
Beverages (Alcoholic / Non-Alcoholic)	Jams, Juices, Sauces & Concentrates
Canned & Processed Foods	Meat & Meat Products
Cereals, Pulses & Cereal Products	Milk & Dairy Products (Except Human Milk)
Coffee & Cocoa Products	Natural Waxes
Edible Colors & Flavors	Nuts & Nut Products
Edible Oils & Fats	Oil Seeds & By-Products
Edible Salts	Poultry & Poultry Products
Eggs & Egg Products	Snacks and Instant Mixes
Essential Nutrients Including Vitamins	Starch & Starch Products
Food Additives & Preservatives	Sugar & Sugar Products
Fruit & Fruit Products	Tea
Gelatine and Other Gums	Tobacco & Tobacco Products
Herbs, Spices & Condiments	Vegetables & Vegetable Products
Honey & Honey Products	Others

6.2.13 Plant

Plants	Other
Plants Material	

6.2.14 Gases

Compressed Natural Gas (CNG)/ Piped Natural Gas (PNG)	Gases for medical use and diving
Industrial Gases	Reference Gases & Mixtures
Liquefied Gases	Others

6.2.15 Glass

Clear glass	Textured or pattern glass
Laminated Glass	Tinted glass
Reflective Glass	Wired Glass
Stain Glass	Others

6.2.16 Hazardous & Restricted Chemicals

Automatic dispensers	Power tools
Computing & communications equipment	Prints
Consumer electronics	Small household appliances
Large household appliances	Textile & Textile products
Leather products	Toys and sports equipment
Lighting: lamps, lighting fixtures, light bulbs	Zipper
Paints	Others
Plastics & other polymeric products	

6.2.17 Industrial & Fine Chemicals

Alcohols & Alcohols based Chemical	Chemicals used in Photographic Industry
Bleaching Earth / Activated Bleaching Earth	Chemicals used in Refrigeration industry
Chemical used in Rubber Industry	Disinfectants
Chemical used in Textile Industry	Electroplating Chemicals

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Chemicals used in Agriculture	Inorganic Chemicals
Chemicals used in electronic industry	Organic Chemicals
Chemicals used in Leather Industry	Others

6.2.18 Inks, dyes & pigments

Duplicating inks	Printing inks
Dye intermediates	Synthetic dyes
Inorganic pigment powder & pastes	Writing inks
Natural dyes & colouring materials	Others
Organic pigment powder & pastes	

6.2.19 Lac & Lac Products

Lac & Lac products	Others
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6.2.20 Leather

Finished leather	Semi-finished leather
Leather accessories	Synthetic leather
Leather products	Others

6.2.21 Lubricants

Aviation lubricants	Oils & greases
Insulation oils	Solid lubricants
Lubricant additives	Others
Microcrystalline wax	

6.2.22 Marine /Aqua culture Food Products

Artemia & Artemia Products	Oyster
Crab & Crab Products	Prawn & Prawn Products
Fish & Fish Products	Shrimps
Others	

6.2.23 Metallic coatings & treatment solutions

Anodizing solutions	Metallic coatings
Conversion coatings	Plating solutions
Metal finishing materials	Others

6.2.24 Metals & Alloys

Alloy steel	Precious metals
Aluminium & its alloys	Rare earth alloys
Amalgam	Special Steel
Carbon Steel (low carbon, medium carbon & high carbon steel)	Stainless steel
Chromium & its alloys	Tin and tin alloys
Cobalt & its alloys	Titanium & titanium alloys
Copper & its alloys	Tool steel

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Ferro-alloys	Tungsten & its alloys
Lead & lead alloys	Zinc & Zinc alloys
Magnesium & its alloys	Others
Nickel & its alloys	

6.2.25 Nutraceuticals & Functional Foods

Carotenoids	Prebiotics
Dietary Fibers	Probiotics
Flavonoids	Soy Proteins
Fortified Food	Others
Phytoestrogens	

6.2.26 Nutritional Supplements

6.2.27 Ores & Minerals

Alkali Metal Ores	Gypsum	Mineral for refractories
Aluminium Ores	Iron ores	Mineral sands
Barium ore	Lead ores	Minor elements
Chromium ores	Limestone & dolomite	Molybdenum Ores
Cobalt ore	Manganese ores	Nickel ores
Copper ores	Mercury	Precious metals ores
Gem & semi-precious stones	Mercury ore	Radioactive metals ores
Geochemical samples for trace elements	Mineral for insulation materials	Rare metals ores
Rock phosphate	Titanium ores	Others
Silica sands	Tungsten ores	
Tin ores	Zinc ores	

6.2.28 Paints & Surface Coating

Drying oils	Powder coatings
Gums, driers & paint removers	Resin coatings
Paints & enamels	Solvents & thinners
Physical Properties	Varnishes
Pigments & extenders	Others
Polishes	

6.2.29 Paper and Pulp

Composite packing material	Pulp
Newsprint and board packing material	Pulpwood
Paper	Others
Paper board	

6.2.30 Pesticide Formulations

Aqueous Capsule Suspensions (CS)	Oil based Suspension Concentrates (OD)(Oil Dispersion)
Aqueous Suspension Concentrates (SC)	Oil Miscible Liquids (OL)
Aqueous Suspo-Emulsions (SE)	Powders for Dry Seed Treatment (DS)

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Dispersible Concentrates (DC)	Soluble Concentrates (SL)
Dustable Powders (DP)	Solutions for Seed treatment (LS)
Emulsifiable Powders (EP)	Technical Concentrates (TK)
Emulsifiable Concentrates (EC)	Ultra-Low Volume Liquids (UL)
Emulsifiable Granules (EG)	Vaporizing Mats (MV)
Emulsions for Seed Treatment (ES)	Water Dispersible Granules (WG)
Emulsions, Oil in Water (EW)	Water Dispersible Powders for Slurry Seed Treatment (WS)
Granules (GR)	Water Dispersible Tablets (WT)
Liquid Vaporizers (LV)	Water Soluble Granules (SG)
Long lasting insecticidal NETS or NETTING(LN)	Water Soluble Powders (SP)
Micro- Emulsions (ME)	Water Soluble Powders for Seed Treatment (SS)
Mixed Formulations of CS and EW(ZW)	Water Soluble tablets (ST)
Mixed Formulations of CS and SC(ZC)	Wettable Powders (WP)
Mosquito Coils (MC)	Tablets for Direct Application (DT)
Suspension Concentrates for Seed Treatment (FS)	Others

6.2.31 Petroleum and Products

Aviation fuels	Petroleum feed stocks
Crude petroleum	Petroleum products
Liquefied / compressed gases	Waxes and jellies
Petrochemicals, Petroleum solvents	Others
Petroleum additives	

6.2.32 Plastic & Resins

Plastic films	Resin
Plastics & polymers	Others
Raw materials	

6.2.33 Pollution & Environment

Effluents toxicity (Bioassay only qualitative- 90% survival of fish after 96 hours in 100 percent effluent)	Wastes (Liquid/Slurry/Sludge/Solid/Semi-Solid)
Municipal Solid wastes	Waste Water (Effluents/Sewage)
Soil/ Sediments	Others
Used/ Waste oil	

6.2.34 Residues and contaminants in Food and Agricultural Products

Antibiotics	Poly Chlorinated Biphenyl
Chlorinated dioxins & dibenzofurans	Polycyclic aromatic hydrocarbons
Halogenated hydrocarbons	Polyhalogenated biphenyls
Mycotoxins	Trace metal elements
Pesticides	Others
Phenols	

6.2.35 Residues and contaminants in Water

Antibiotics	Poly Chlorinated Biphenyl
Chlorinated dioxins & dibenzofurans	Polycyclic aromatic hydrocarbons

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Halogenated hydrocarbons	Polyhalogenated biphenyls
Mycotoxins	Trace metal elements
Pesticides	Others
Phenols	

6.2.36 Rubber & Rubber Products

Hard rubber / ebonite Rubber	Rubber vulcanizates
Latex goods	Synthetic rubber
Natural / synthetic Latex	Textile rubber composite
Natural rubber	Thermoplastic elastomers
Rubber compound	Others
Rubber Products	

6.2.37 Soap detergent & Toiletries

Detergent	Wetting & Emulsifying agent
Soaps	Others
Toiletries	

6.2.38 Soil and Rock

Clays	Rock
Soil	Stones
Agriculture Soil	Others

6.2.39 Solid Fuels

Briquettes	Coke
Charcoal	Oil Shale
Coal	Others
Coal tar/Bitumen	

6.2.40 Textile

Agro-textiles	Made-ups
Automotive textiles	Medical textile
Carpet & rugs	Packaging textiles
Domestic Textiles	Protective Textiles
Fiber & filaments	Sports textiles
Finished fabric	Technical textiles
Garments & Apparels	Terry Fabrics & its products
Geo-textiles	Yarns & chords
Grey Fabrics	Others
Industrial Textiles	

6.2.41 Warfare Chemicals

Blister Agents	Potential CW Agents
Blood Agents	Psychotomimetic Agents
Choking Agents	Riot Control Agents
Mustard Agents	Toxins

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Nerve Agents	Others
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6.2.42 Water

Construction Water	Packaged Drinking water
Drinking Water	Surface Water
Ground Water	Swimming Pool Water
Industrial Water	Water from purifiers
Irrigation water	Others

6.2.43 Bio-stimulant

Botanical extracts, including seaweed extracts	Antioxidants
Bio -chemicals	Anti-transpirants
Protein hydrolysates and amino acids	Humic & fulvic acid and their derivations
Vitamins	Others
Cell free Microbials products	

6.2.44 Miscellaneous

6.3 Electrical Testing (Product Groups for Electrical Testing)

6.3.1 Bridges & Potentiometers

AC bridges, AC potentiometers	Ratiometers
DC bridges, DC potentiometers	Others

6.3.2 Cables and Wires

Automobile cables	LF wires & cables with PVC insulation & sheath
Bare cables & wires	Paper insulated cables
Elastomeric cables	Power cables
Insulated cables & wires	Thermo-couple compensating cables
Joints & terminations of polymeric & power cables	Welding cables, Others
Electric Cables for Photovoltaic Systems	Fire Survival Cables
HRFR Cables	FRLSH Wires and Cables
Electric Cables for Photovoltaic Systems	Electric and Optical Fibre Cables

6.3.3 Capacitors

Capacitance attenuators	Shunt capacitors
Motor capacitors	Surge protection capacitors
Precision capacitors	Others
Series capacitors	

6.3.4 Cells and Batteries

Button cells	Lead acid batteries
Dry batteries	Nickel cadmium batteries
Heavy duty batteries	Lithium Cells and Batteries for Electric vehicles
Others	

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6.3.5 Conductors and Conducting Materials

Aluminium conductors	Paper covered conductors
Copper conductors	Winding wires
Enamelled / Insulated wires	Others

6.3.6 Domestic Electrical Appliances

Baking ovens, Microwave ovens, Hobs	Electric stoves & hot plates
Electric & steam irons	Electric toasters
Electric call bells & buzzers	Flexible heating pads
Electric coffee makers	Electric Hair dryers
Electric food mixers & juicers	Electric Frying pan
Electric grills & roasters	Refrigerators, food freezers & ice makers
Electric kettles & jugs	Electric Vacuum cleaners & suction appliances
Electric shavers	Electric Washing machines
Electric steam cookers	Electric Water heaters
Electric Insect Killers	Commercial Dispensing Appliances and Vending Machines
Electric Massage Appliances	Others
Pedestal type Fans, Propeller type AC Ventilating Fan, Electric table type Fans	

6.3.7 Electrical Indicating & Recording Instruments

Ammeters	Phase meters
Digital recorders	Power factor meters
Earth resistance tester	Transducers
Electricity meters	Varmeters
Galvanometers & null detectors	Voltmeters
Graphic recording instruments	Watt-hour meters
Insulation resistance tester	Watt meters
Ohm meters	Others

6.3.8 EMI / EMC Test Facility

Fast transient burst test	Radio interference measurement
Immunity to conducted disturbances	Surge immunity test
Immunity to electromagnetic HF fields	Others
Immunity to electrostatic discharge (ESD)	

6.3.9 Environmental Test Facility

Acceleration test	Ingress protection test
Bump test	Robustness of termination test
Cold test	Salt mist test
Damp heat test	Sealing test
Driving rain	Seismic test
Dry heat test	Soldering test
Dust test	Storage test
Glow wire	Vibration test

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Impact test	Others
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6.3.10 Frequency & Time Measuring Instruments

Clocks & watches	Tachometers
Counters	Time interval meters
Frequency meters	Wave meters
Stop watches	Others

6.3.11 High Voltage Test Facility

Alternating voltage test	Partial discharge test
Artificial pollution test	Radio interference voltage test
Dielectric test	Switching impulse voltage test
Direct voltage test	Wet test
Impulse current test	Others
Lightning impulse voltage test	

6.3.12 Inductors and Transformers

Auto transformers	Power transformers
Current transformers	Pulse transformers
Distribution transformers	Ratio transformers
Inductors	Reactors
Neutral earthing transformers	Voltage transformers
Phase shifting transformers	Dry type Transformers
Others	

6.3.13 Insulating Materials & Insulators

Antistatic materials	Polymer films
Ceramics	Polymers for cable insulation & sheath
Electrical grade paper	Rubber products
Insulating Oils	Sleeving
Insulating tapes	Transformer oils
Insulating varnish	Others
Laminates	

6.3.14 Lamps, Luminaires and accessories

Emergency lights	Industrial luminaires	Road & street light luminaires
Flood lights	Lamp holders	Sodium vapor lamps
Fluorescent lamps	Mercury vapor lamps	Starters, ballasts & capacitors
General purpose luminaires	Portable luminaires	Tungsten filament lamps
Halogen lamps	Recessed luminaires	Others

6.3.15 Magnetic Materials

Flux meters	Magnets, solenoids & Helmholtz coils
Magnetic sheets	Others

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6.3.16 Miscellaneous

AC / DC transfer instruments	others
Plastic materials & products	

6.3.17 Power System and Stabilizers

Stabilized power supplies (AC & DC)	Uninterrupted power systems (UPS)
Servo operated voltage stabilizers (AC)	Others

6.3.18 Resistors, resistance boxes & potential dividers

AC shunts	Precision resistors
Conductance boxes	Resistance boxes
DC shunts	Volt ratio boxes
Potential dividers	Others

6.3.19 Rotating Electrical Machines

Alternators	Induction motors	Submersible pumps
Centrifugal pumps	Other pumps & motors	Universal motors
Increased safety motors	Self-priming pumps	Others

6.3.20 Safety Testing Facility – Others

6.3.21 Short- Circuit Test Facility

General tests on HV switchgear & control gear	Synthetic testing of HVAC circuit-breakers
Inductive load switching on HVAC circuit-breakers	Others

6.3.22 Switchgear & Protective Equipment

Circuit breakers & controllers	Switches & isolators
Fuses & fuse links	Time switches
Power system protection relays	Motor Starters
Protection & control relays	Contactors
Others	

6.3.23 Transmission Line Equipment and Accessories

Aluminium conductors	Fuses	Switch gear & control gear
Busbars	Insulators	Transformers & capacitors
Bushings	Isolators & air brake switches	Transmission line spacers / dampers
Circuit breakers	Lightning arrestors	SF6 Gas Insulated RMU (Ring main Unit)
Conductor & earth wire accessories	Line traps	Bus trunking
Electric power connectors	Metal fittings	GIS (Gas Insulated System)

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Panels (LT & HT)	Busducts	Busducts
Others		

6.3.24 Wiring accessories

Adhesive / Insulating tape	Conduits	Plugs & sockets
Cable trucking & ducting systems	Electronic type fan regulator	Switches
Ceiling roses	Fittings	Others

6.3.25 Energy Efficiency of Domestic Electrical Appliances

Room Air Conditioners, Frost Free Refrigerators	Direct Cool Refrigerator Electric Geysers	Ceiling Fans LPG -Stoves
Distribution Transformer	Variable Capacity Inverter Air conditioners	Tubular Florescent Lamp
Room Air Conditioner (Cassettes, Floor Standing)	Washing Machine	Others

6.3.26 Energy Efficiency of Commercial / Industrial Appliances

Light Commercial Air Conditioner	Solar Water Heater	DG Sets
Chillers	Deep freezers	Induction Motors
Pump Sets	Diesel Engine Driven Mono-set Pumps	Others
Room Heaters		

6.4 Electronics Testing

(Product Groups for Electronics Testing)

6.4.1 Audio Equipment

Amplifiers	Microphones
Buzzers & ringers	Others
Loud speakers / Head phones	

6.4.2 Domestic Electronic Appliances & Accessories

AM / FM radio receiver	Microwave ovens
Cassette players / recorders & its components	Picture tubes
CD players / recorders & its components	Static Energy meters (1 Φ and 3 Φ)
DVD players/Blu Ray Players	TV antenna(dish)
Electronic fan regulators	TV tuner/DTH (set-top box)
LCD/LED Display/TV & its components	Others

6.4.3 Electronic Components & Equipment Sub-Assemblies

Attenuators/AD-DA converters	Oscilloscope/Function generator/ signal generator	Semi-conductor devices
Capacitors	Mobile Phone – GSM	Solid State Relays
Connectors	Mobile Phone -CDMA	Switches
Deflection yokes	Mux-demux	Tab / Note pad
Diode	Laminates	Transceivers

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Electronic Ballast	Passive components	Transformers (excluding power supply)
Electronic Counters	Plugs (excluding power supply)	Transistor Amplifiers
Filters	Potentiometer	Transistors
Fuses	Printed circuit boards	Others
Integrated circuits	Resistors	

6.4.4 EMC Test Facility

Burst Immunity Test	Pulse Magnetic Field Immunity Test
Conducted Emission Test	Radiated Emission Test
Conducted RF Susceptibility Test	Radiated Magnetic Field Emission Test
Damped Oscillatory wave Immunity Tests	Radiated Radio Frequency Disturbances Power Test
Electrical Fast Transient (EFT)	RF Radiated Susceptibility Test
Electrostatic Discharge Immunity Test	Voltage dips, short interruption & voltage variations Immunity Test
High Energy / Telecom Surge Immunity Test	Voltage Fluctuation & Flicker Test
Impulse Voltage withstand Test	Others
Power Frequency Magnetic Field Immunity Test	

6.4.5 Environmental Test Facility

Acceleration Test	Impact Test	Seismic Test
Bump Test	Low Air Pressure Test / Altitude Test	Solar Radiation Test
Cold Test	Mechanical Shock Test	Temperature Cycling Test
Composite Temperature & Humidity Test	Mould Growth (Fungus) Test	Thermal Shock Test
Damp Heat (Cyclic) Test	Protection against penetration of dust & water	Tropical Exposure Test
Damp Heat (Steady State) Test	Robustness of Terminations Test	Vibration Test
Driving Rain Test	Salt Mist Test	Others
Drop & Topple Test	Sand and dust Test	
Dry Heat Test	Sealing Test (Gross \ Fine Leak)	

6.4.6 Equipment Used in Clinical Laboratory

Auto Clave	ESR Analyzer	Photometers (Colorimeter)
Cell counter	Hot Air oven	Refrigerator
Centrifuge	Hot Air Sterilizer	Rotary shaker
Cyclomixer	Hot plate	Semi auto-analyzer
Densitometer	Incubators	Sterilizer
Electronic Analytical Balance	Laminar Air Flow	Urine analyzer
Electrophoresis system	Microscope	VDRL shaker
ELISA reader	Na, K Analyzer	Water Bath
		Others

6.4.7 IT Equipment

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CPU/Disk drives/optical devices/Solid state drives/DIMM/Main board	Printers / scanner/Copier
GPU/USB devices/Wi-Fi Hub/ PCI extension cards	Personal computers / Laptop / Note Book/tablets
Keyboards	Servers
Monitors / VDUs/Modem	Others
Network devices	

6.4.8 Medical Equipment

ACT Machine	Endoscopy	Pacemaker (External)
Audiometer	EOG Machine	Pachometer
Auto Refractometer	ETO Sterilizer	Patient Monitor
BIPAP Ventilator	Field Analyzer	Perfusion Pump
Blood Filtration Appliance	Fetal Monitor	Pertdish Warmer
Blood Fluid Warmer	Glucometer	Photo and Laser Coagulator
Blood Storage Cabinet	Harmonic Scalpel	Phototherapy Unit
Boyle's Apparatus	Heart-Lung machine	Pneumatic Drill
BP Apparatus	HF Surgical Diathermy	Pressure Chambers for Hyper Baric Therapy
Brain Stimulators	High Pressure Injection Equipment	Pulse Oximeter
Breath Hydrogen (H2) monitor	Hypothermia Appliances	Radiant Heat Warmer
Capnography	Incubator with CO2	Renal Dialysis machine
Cardiopulmonary bypass machine (CPB)	Incubator (Stationary and Portable)	Respirators (Not Manual)
CO2 Monitor	Infusion Pumps	Retinal Camera
Coagulation Analyzer	Intelligent Tourniquet	Shortwave Diathermy
Cold light source	Interferential therapy	Sigmoidoscopy
Cryo Surgical Appliances (Heating Part)	Invasive Arterial Blood Pressure (IBP)	Slit Lamp with Ophthalmoscope
Cryostat	IVF Work Station	Spirometry Devices
CTG Machine	Keratometer	Stadiometer
Daytona	Laser Surgery equipment	Surgical Diathermy
Defibrillator	Lithotripsy (Impulse Apparatus)	Syringe Pump
Dental X Ray	Magnetic Particle Imaging system (MPI)	Test Tube Warmer
Diagnostic Muscular Simulator	Magnetic Resonance Imaging system (MRI)	Therapeutic Ultrasound Device
Dialysis Apparatus	Mammography	Tonometer
Diode Laser. Doppler	Medical Laser Systems	Transcutaneous Electrical Nerve Stimulator
ECG Monitor	Multiparameter Monitor	Tread Mill
Echo Cardiograph	Muscles Stimulator (For Diagnostic and Therapy)	Trivector Dry Bath
ECT machine	Nebulizer	Ultrasonic Diathermy
EEG Machine	Nerve Stimulators	Urine analyzer
Electro and Phonograph (Intra Cardiac)	Noninvasive Blood Pressure	Vascular Infusion System
Electro Cardio Graph Recorder	Nuclear Magnetic Resonance Tomography	VDRL shaker

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Electro Myography	Oxygen Concentration Monitor	Ventilator (Adult & Infant)
Electronic Traction	Wax Bath	
Endoflator	Others	

6.4.9 Telecommunication equipment (For TEC CAB Designation)

Wire Telephone Equipment	Base Station for Cellular Network	Precision Timing Control
G3 Fax Machine	Compact Cellular Network	PTP PMP Microwave
Modem	Mobile Handset	Mobile Management Entity
Cordless Telephone	PON Family of Broadband Equipment	SGSN or GGSN
ISDN Customer Premises Equipment	Transmission Terminal Equipment	BSC RNC
Private Automatic Branch Exchange	IoT Gateway	Cell Broadcast Centre
HF Radio	Tracking Device	GMLC
Conferencing and Presentation Equipment	Smart Electricity Meter	HLR AUC HSS
Mobile Radio Trunking System	Smart Watch	eNodeB (ITSAR)
Conferencing Equipment	Smart Camera	Mobile Device (ITSAR)
VHF UHF Radio System Equipment's	Satellite Communication Equipment	IP Router (ITSAR)
Equipments Operating in 2.4 GHz and 5 GHz Band	LAN Switch	P-GW/PDN-GW (ITSAR)
IP Terminal	Router	UICC (ITSAR)
Point of Sale Devices	End Point Device for Environmental Monitoring	IP Router (ITSAR)
Media Gateway	Feedback Device	Mobility Management Entity (MME) (ITSAR)
DSL Equipments	Media Gateway	Cryptographic Controls (ITSAR)
Signalling Gateway	Inband Switch	Wi-Fi CPEs (ITSAR)
Session Border Controller	IP Multimedia Conferencing Equipment	Others
Softswitch	IP Security Equipment	
Repeater for Cellular Network	Optical Fibre Cable	

6.4.10 Miscellaneous Products

AC and DC Drives	Measuring instruments
Anti-static accessories, wrist strap	Opto-electronic components & equipment
Electro-magnetic components & equipment	Photo-voltaic equipment
Electro-mechanical components & equipment	Piezo electric devices
Fire alarm systems	Telephones/EPABX & Fax machines
Franking machines	Transducers

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Harness and cables	Others
Lighting equipment, LED display Board Controller	

6.4.11 Power Supplies & Stabilizers

Charge Controller	SMPS power supplies
Inverters	UPS (online/line interactive)
Inverters (Charge controller unit)	Voltage stabilizers (step/servo motor operated)
Regulated Power supplies (AC/DC)	Others

6.4.12 Safety Testing Facility

Abnormal operating and fault conditions	Mechanical strength
Clearances and creepage distances	Over current and earth fault protection in primary circuits
Constructional requirements with regard to the protection against electric shock	Protection against hazardous moving parts
Electric shock hazard under normal operating conditions	Protection from electric shock and energy hazards
Electric shock hazard under normal operating conditions	Protection from hazards
Hazardous radiations	Protection of equipment users from over voltages on telecommunication networks
Heating under normal operating conditions	Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment
Insulation resistance test	Protection of the telecommunication wiring system from overheating
Ionizing radiation	Provisions for earthing and bonding
Laser radiation	Resistance to fire, Touch current and protective conductor current
Mandrel test	Ultraviolet light conditioning test
Measurement of temperature rises	Others

6.4.13 Energy Efficiency of Domestic Electronic Appliances

Color TV	Solid State Inverter
Computer (Notebooks/Laptops)	Microwave Oven
Ballast (Electronic/ Magnetic)	LED Lamps
Office equipment's (Printer, Copier, Scanner, MFD's)	Others

6.5 FLUID FLOW DISCIPLINE

(Product Groups for Fluid Flow Testing)

6.5.1 Air & Gases

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Air velocity devices (Anemometers & Pitot tubes)	Flow rate measuring meters
Flow metering devices in pipelines	Leak rate of gases
Flow rate controlling valves	Others

6.5.2 Liquids

Flow metering devices in pipelines	Leak rate of liquids
Flow rate controlling valves	Pumps & turbines
Flow rate measurement of corrosive liquids	Others
Flow rate measuring meters	

6.5.3 Miscellaneous

6.6 Forensic Science Testing

(Product Groups for Forensic Science Testing)

6.6.1 Biological Sciences

Biology & Serology	Others
DNA Fingerprinting	

6.6.2 Chemical Science

Chemistry	Toxicology
Explosive	Others
Narcotics	

6.6.3 Crime scene Management

6.6.4 Forensic Electronics & Computer Forensics

6.6.5 Forensic Psychology

6.6.6 Physical Science

Ballistics	Photography
Finger print	Question document
Physics	Others

6.6.7 Miscellaneous

6.7 Mechanical Testing

(Product Groups for Mechanical Testing)

6.7.1 Automotive Components

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Bonded Rubber Wheels	Internal Combustion Engine:
Complete Vehicle on Chassis Dynamometer	Knock Characteristic of Fuel
Component Testing	Others

6.7.2 Building, Infrastructure & Construction Materials

Adhesives, Pre-formed Joint Seals, Materials & Fillers	Coatings, Membrane & Film Forming Materials	Fibre Hard Boards
Admixture	Coating Material on Reinforcing Steel	Shuttering Plywood
Aggregates, Natural, Crushed, Recycled & Synthetic	Concrete, Mortar, Shotcrete, Grout & Epoxy mixes Concrete Mixers	Veneered Particle Board
Coarse Aggregate	Hot Applied Sealing Compound for concrete	Veneered Decorative Plywood
Fine Aggregate	Construction Chemicals & Performance Additives	Marine plywood
Ballast	Doors & windows, Shuttering, Frames & Formworks	Plywood for General Purpose
Bitumen, Modified Bitumen, Bitumen Felts & Bitumen Emulsion	Fuel Ash, Fly Ash, Pulverized Bottom Ash & Pond Ash	Plywood
Bituminous Mixes & Recycled (RAP) Mix Materials	Gypsum Boards, False Ceiling & Cladding Materials	Fire Retardant Plywood
Bituminous Mix/ Bituminous Macadam/ Dense Bituminous Macadam	Joint Reinforcing Tape, Seals & Modular Joints	High Strength aircraft Ply wood
Bricks, Paver Blocks, Pavement Shapes	Preformed Fillers for expansion Joints	Timber
Concrete Paving Blocks	Joint Treatment Materials for Gypsum Board Construction	Medium Strength Aircraft Ply wood
Precast Hollow and Solid Concrete Blocks	Plumbing & drainage fittings	Reinforcement Steel and FRP & Structural Steel
Precast Autoclaved Cellular (Aerated) Concrete Blocks	Pozzolanic materials, Slags, Industrial Waste & Ore Residues	Wall, floor, ceiling & Cladding Panels & Shapes
Preformed Foam Cellular Concrete Blocks	Refractory materials, Insulation Profiles & Shapes	Building Hardware, Fittings & Structural Fixtures
Burnt Clay Building Bricks	Tiles- Concrete, Ceramic, Synthetic & Composite	Fasteners, Bolts, Nuts, Hooks, Rivettes & Washers
Pulverised Fuel Ash Lime Bricks	Tile adhesive	Pipes, Cast Iron, Cement, Steel, PVC, HDPE, PP & FRP
Building Lime	Ready Mixed Building Mortar	Pre-stressing Materials & Anchorage Components
Cement, Cementitious Materials & Cement Additives	Block Jointing Mortar	Reinforced Earth Mixes & RSW Embankment Materials
Ordinary Portland Cement 33, 43, 53, Grades	Tile Grout	Reinforcement - Steel

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Ordinary Portland Cement 43S, 53S Grades	Chemical Grout	Retroreflective Signboards, Cones, RPM & Delineators
Portland Pozzolana Cement (Fly Ash Based)	Cement grout (non-Shrink)	Road Marking Materials Hot & Cold Applied, Tapes
Portland Pozzolana Cement (Calcined Clay Based)	Curing Compound	Road Marking Paints (Ready Mixed)
Portland Slag Cement	Integral Cement water proofing compound	Thermoplastic Road Marking Material
White Portland Cement	Ceramic tiles	Prestressing Strands H.T Strands /LRPC Strands
Low Heat Cement	Chequered cement concrete tiles	Anti-Striping Agent
Rapid Hardening Portland Cement	Wooden Flush Door shutter	Gypsum Building Plaster (Including Light Weight Premix)
Sulphate Resisting Portland Cement	Timber Panelled and Glazed shutters	Coated/Laminated Gypsum Boards
Hydrophobic Portland Cement	Timber Panelled and Glazed shutters Windows and Ventilator shutter	Fire resistant Gypsum boards
Super sulphated Cement	Wooden Flush Door Shutters (Cellular and Hollow Core Type) (Ply wood panels)	Reinforced Gypsum Boards
High Alumina Cement	Moulded Raised High Density Fibre (HDF) panel Door	Plain Gypsum Boards
Microfine Ordinary Portland Cement	Solid panel Foam UPVC Door Sutters	Foundry Sand
Composite Cement	Integral Water proofing Compounds for Cement Mortar and Concrete	Granular Subbase
Pulverized fuel Ash	Concrete Admixtures Cement and Concrete	Macadam
Metakaolin	Mineral wool (Rock wool, Glass wool, Slag wool) & Bonded Mineral Wool-Thermal Insulation	Wet Mix Macadam
Silica Fume	Block Board	APP Membrane
Ultrafine Ground Granulated Blast Furnace Slag	Medium Density Fibre Board	Refractory Materials
Cement Concrete Flooring Tiles	Particle Board	Others
Fresh Cement Concrete	Pre-laminated Medium Density Fibre Board	
Hardened Cement Concrete	Prelaminated Particle Board	

6.7.3 Heating, Ventilating, and Air Conditioning (HVAC)

Air Conditioners	Heaters
Condensing Unit	Refrigeration
Coolers	Others
Cooling Towers	

6.7.4 Leather and Leather Products

Finished leather	Leather products
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Footwears	Semi-finished leather
Industrial Products	Others

6.7.5 Mechanical Properties of Metals

Biomaterials	Metallic coatings
Copper materials, alloys & products	Other Non-Ferrous metals, alloys & products
Ferrous materials, alloys & products	Welds & welded test specimens
Metal powders & sintered products	Others

6.7.6 Metallography Test

Aluminium materials, alloys & products	Metallic coatings
Copper materials, alloys & products	Other Non-Ferrous metals, alloys & products
Ferrous materials, alloys & products	Welds & welded test specimens
Metal powders & sintered products	Others

6.7.7 Noise & Vibration

Mechanical Shock Testing	Dynamic Balancing
Vibration Characteristics of Materials, Components, Assemblies and Structures	Measurement of Insertion Loss Ducts and Mufflers
Vibration Record on Transmission Line	Measurement of Mechanical Vibrations & Performance
Vibration Test on Connection and Relay	Measurement of Noise Reduction of Sound Isolating Enclosures
Others	Dynamic Balancing

6.7.8 Paper & Paper products

Paper	Pulpwood
Paper Board	Others
Pulp	

6.7.9 Performance/Durability/ Safety Test

Domestic Appliances	Medical Equipment /Devices except Implants
Industrial Equipment /Instruments/Products	Scientific or Measuring Equipment
Cleanroom (Installed Air Filter)	

6.7.10 Plastics and Plastic Products

Decorative laminates	Plastic materials & products
Fibre reinforced plastic products	Plastic pipes and Accessories
Flexible & rigid foams	Plastic sheets
Moulded components	Polymeric Products
Packaging & containers	Others
Plastic films	

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6.7.11 Precious Stones

Gemstones	Pearl
Diamond	Others
Studded Jewellery	

6.7.12 Properties of Powder Metallurgical Products

Stainless Steel	Others
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6.7.13 Rubber and Rubber Products

Gaskets, seals & packings	Synthetic rubber & products
Industrial belts	Tyres
Natural rubber & products	Others

6.7.14 Soil and Rock

Clays & Soils	Classification test
Geophysical tests	Stones / Rock
In-situ tests	Others

6.7.15 Soil- Basic

Water content	Heavy Compaction
Specific Gravity – Fine Grained Soil	Unconfined Compression Strength
Specific Gravity – Coarse Grained Soil	Triaxial (UU)
Grain size Analysis – Dry, Wet & Hydrometer	Direct Shear test
Liquid Limit / Plastic Limit	California Bearing Ratio
Shrinkage limit	Consolidation Test
Light Compaction	Free Swell Index
	Others

6.7.16 Soil- Advanced

Swelling Pressure	Triaxial (CU)
Relative Density Test	Triaxial (CD)
Laboratory Permeability	

6.7.17 Soil- Field

Determination of Dry Density of soil in place by Core-cutter Method	Field CBR test
Determination of Dry Density of soil in place by Sand Replacement Method	Modulus of Subgrade Reaction
Plate Load Test	Electrical Resistivity
Cyclic Plate Load Test	Standard Penetration Test
Pile Load Test	Dynamic Cone Penetration Test

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A - Vertical Load (Compression)	Static Cone Penetration Test
B - Lateral Load	Field Vane Shear Test
C - Pull Out Test (Uplift)	Field CBR test

6.7.18 Rock- Basic

Compressive Strength	Point Load Index Test
Water Content, Density & Porosity	Others

6.7.19 Rock- Advanced

Modulus of Elasticity	Brazilian Test
Slake Durability Index	Others

6.7.20 Solar Panel

Others

6.7.21 Sub Assembly/ Ancillaries/ Accessories

Bearing	Pumps
Compressors	Springs
Cutting & hand tools	Springs & energy absorbing devices
Engines	Threaded fasteners
Lifting gear, chain, wire ropes & strands	Others
Pipes, hoses, valves & fittings	

6.7.22 Textile Materials

Agro Textiles	Geo Textiles	Sports Textiles
Automotive Textiles	Handloom textiles	Technical Textiles
Carpet and Rugs	Industrial textiles	Upholstery fabrics (other than automotive)
Coated fabrics	Jute & its products	Wool & its products
Fabrics (Woven and Non-Woven)	Khadi textiles	Yarns
Fibre ropes & cords	Medical Textiles	Zippers & fasteners
Fibres	Packaging Textiles	Others
Garments and Apparel	Protective Textiles	

6.7.23 Thermal Tests

Ageing Test	Thermal Conductivity
In Combustibility Test	Thermal Shrinkage
Insulating Value	Others

6.7.24 Toys and Similar products

Others

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6.7.25 Wood and Wood Products

Plyboard	Others
Timber	

6.7.26 Miscellaneous

6.8 Non-Destructive Testing

(Product Groups for Non-Destructive Testing)

6.8.1 Building Materials – Reinforced Concrete Structures

Carbonation test	Pile Integrity test
Cover Meter Test	Rate of Corrosion test by LPR (Linear polarization resistance)
Crack width measurement in reinforcement concrete structures	Rebound Hammer Test
Deflection measurement data (Load Test)	Ultrasonic Pulse Velocity Tests
Half Cell Potential difference test	Others

6.8.2 Metals and Alloys

Eddy Current Testing facility	Radiography Testing Facility
Emerging Areas Testing Facility	Ultrasonic Testing Facility
Leak Testing Facility	Under Water Testing Facility
Magnetic Particle Testing	Others
Penetrant Testing Facility	

6.8.3 Miscellaneous

6.9 Photometry

(Product Groups for Photometry)

6.9.1 Glasses/ Mirrors

Mirrors	Safety Glass
Reflectors	Others

6.9.2 Light Sources (Electric Lamp)

Color Characteristics	Luminous Flux Output
Initial Rating Test	Others
Life Test	

6.9.3 Luminaires

Ballast Lumen Factor	MHI Value in Lumens
Downward & Upward Light Output Ratio (DLOR/ULOR)	Others

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Luminous Intensity Distribution	
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6.9.4 Miscellaneous

6.10 Radiological Testing
(Product Groups for Radiological Testing)

6.10.1 Environment (Radioactive contaminants)

Air	Soil, Vegetation, Biota
Air Filters	Wipes, swabs
Liquid effluents	Others
Ores, Minerals & Metals	

6.10.2 Food and Agriculture Products (Radioactive contaminants)

Bakery & Confectionary	Milk & Milk products
Crops & Crops produce	Poultry products
Marine foods	Spices & food ingredients
Meat & Meat products	Others

6.10.3 Radiation Monitors

Area survey instruments	Personnel monitoring dosimeter
Control monitors	Therapy level dosimeter
Environmental radiation monitors	Others
Fixed monitors	

6.10.4 Radiation Sources

Accelerators	Industrial Accelerators
Beam welding equipment	Isotopic sources used in industrial gauges
Brachytherapy	Isotopic sources used in medical brachy therapy
Cesium machines	Medical Accelerators
Cobalt machines	Neutron generators
Diffraction X-ray machines	Simulators
Electron Industrial irradiators	Others

6.10.5 Radiological Equipment and Nucleonic Equipment

Gamma switches	Nucleonic moisture and density gauges
Industrial gamma radiography	Nucleonic weighing machines
Industrial irradiators	Radiography camera
Liquid scintillation counter	RIA counter
Medical gamma camera	Smoke detectors containing sources
Medical spectrometer	Thickness gauges



Nucleonic level gauges	Others
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6.10.6 Water (Radioactive Contaminants)

Drinking water	Water for Industrial use
Packaged drinking water	Others
Treated water	

6.10.7 Miscellaneous

6.11 DIAGNOSTIC RADIOLOGY QA TESTING DISCIPLINE

(Product Groups for diagnostic Radiology QA Testing)

6.11.1 Radiography (X-ray -Fixed Portable, Mobile)

6.11.2 Computed Tomography (CT)

6.11.3 Mammography

6.11.4 Interventional Radiology & Fluoroscopy

6.12 Software & IT System Testing

(Product Groups for Software & IT System Testing)

6.12.1 Software Testing

Telecom software/ Protocol	E-Procurement System Software
Embedded systems	Process and control software
Mobile Device and Mobile Applications	Web Application and Website
e-Governance Application and solution Evaluation	Linguistics Software
Gaming Software	Sector specific Software
IOT Block Chain, AI or drone software/ system/ application	Testing & evaluation for regulatory compliance
Data analytics Software	Others
Lottery Software	



7.0 CATEGORIES OF REFERENCE MATERIAL

7.1 CHEMICAL COMPOSITION

Reference materials, being either pure chemical compounds or representative sample matrices, either natural or with added analytes (e.g. animal fats spiked with pesticides for residues analysis), characterised for one or more chemical or physicochemical property values.

7.1.1 METALS

7.1.1 Ferrous

• Steels	• Irons
• Carbon steels	• White cast irons
• Low alloy steels	• Ductile irons
• High alloy steels	• Gases in metals
• Cast steels	• Speciality steels

7.1.2 Nonferrous

- Aluminium alloys
- Copper base alloys
- Lead base alloys
- Tin base alloys
- Brasses
- Bearing alloys
- Titanium base alloys
- Zirconium base alloys
- Gases in metals

7.1.3 Special Alloys

7.1.4 Refractory Metals and Alloys

7.1.5 Rare Earth Metals

7.1.6 High Purity Metals

- Solid forms
- Spectrochemical materials
- Spectrochemical solutions

7.2: INORGANIC REFERENCE MATERIALS

7.2.1 Ores and Minerals

7.2.2 Cements, Clays and Related Products

7.2.3 Ceramics, Glasses and Refractory Oxides

- Carbides
- Glasses



7.2.4 Agricultural Chemicals and Fertilizers

7.2.5 Solid Fuels

- Coal and coke
- Mineral content
- Major elements
- Trace elements

7.2.6 Pure Chemicals

- Stoichiometry standards (primary standards, secondary standards, working standards)
- Chromatography standards
- Pharmaceutical materials
- Cosmetic materials

7.2.7 Stable Isotope Materials

7.3: ORGANIC REFERENCE MATERIALS

7.3.1 Pure Organic Compounds

- Compounds for elemental analysis
- Compounds for molecular weight
- Chromatography standards
- Illicit drugs and their metabolites - (See also A8 Forensic Reference Materials)
- Illicit drugs
- Delta-9-THC and other cannabinoids
- Amphetamine
- Methylamphetamine
- 3,4-methylenedioxyamphetamine
- 3,4-methylenedioxy-methylamphetamine
- 3,4-methylenedioxyethylamphetamine
- Diacetylmorphine
- Morphine
- Cocaine
- Lysergic acid diethylamide and isomers
- Therapeutic drugs
- Veterinary drugs
- Steroids
- Pesticides, herbicides, acaricides, etc
- Metabolites of any of the above
- Priority pollutants
 - PCBs, PAHs, etc
- Fine chemicals
- Pharmaceutical materials
- Cosmetic materials
- Isotopically labelled compounds



7.3.2 Agricultural Materials, Fertilizers

7.3.3 Foodstuffs

- Proximate analysis
- Nutritional properties
- Vitamins
- Other food additives
 - Antioxidants
 - Emulsifiers
- Toxins
 - Animal origin
 - Plant origin
 - Other biological origin
- Trace elements
- Trace organics
 - Pesticide residues
 - Antibiotic residues
 - Other organic contaminants

7.3.4 Plastics and Rubbers

- Hardness
- Natural rubber content
- Identity
 - Copolymers
 - Plasticisers
 - Vulcanising agents
 - Blowing agents
 - Antioxidants
 - Fillers

7.3.5 Petroleum Products

- Fuels and lubricants
 - Lead
 - Vanadium
 - Nickel
- Transformer oils
 - Moisture
 - PCBs
- Heat exchange fluids
 - Moisture
 - PCBs

7.3.6 Vegetable Oils and Fats

- Fatty acid profile
- Triglyceride composition



7.4: ENVIRONMENTAL REFERENCE MATERIALS

7.4.1 Soils and Sludges

- Trace elements
- Mineral content
- Trace organics
- TCLP leachate

7.4.2 Ashes

- Fly ash from coal and coke
- Incinerator ash

7.4.3 Waters

- Potable water
- Routine analytes
- Trace elements
- Organic pollutants
- Other analytes
- Fresh water
 - Major elements
 - Trace elements
 - Other analytes
- Sea water
 - Major elements
 - Trace elements
 - Other analytes
- Industrial waste water
 - Routine analytes
 - Trace elements
 - Organic pollutants
 - Other analytes
- Treated sewage
 - Routine analytes

7.4.4 Plant Material

- Trace elements
- Mineral content

7.4.5 Marine

- Fish - trace elements
- Molluscs - mineral content
- Plankton - organics

7.4.6 BOD Reference Compounds

7.4.7 Miscellaneous Biological Materials (e.g. Human hair)



7.5: HEALTH AND INDUSTRIAL HYGIENE

7.5.1 Clinical Laboratory Materials

7.5.2 Ethanol Solutions

7.5.3 Toxic Substances in Urine

- Toxic metals
- Fluoride
- Mercury

7.5.4 Drugs of Abuse in Urine

7.5.5 Drugs of Abuse in Hair

7.5.6 Materials on Filter Media

7.5.7 Trace Elements in Blank Filters

7.5.8 Lead in Paint (Powder and Sheet forms)

7.5.9 Respirable Silica

7.6: ENGINE WEAR MATERIALS

7.6.1 Metallo-Organic Compounds

7.6.2 Wear Metals in Oil

7.7: ANALYSED GASES

7.7.1 Gas Mixtures (and High Purity Gases)

7.7.2 Trace Volatile Organic Compounds

7.8: FORENSIC REFERENCE MATERIALS

7.8.1 Ethanol Reference Standards

- Ethanol
- Ethanol, aqueous solutions containing 0.050, 0.150, 0.250 g/100mL

7.8.2 Drugs (individually named) and Metabolites*

In whole human blood and urine (*metabolites to include glucuronides).

See also A3.1 Pure Organic Compounds.

7.8.3 Glasses

- Bottle
- Window
- Automotive
- Spectacle

7.8.4 Paints



- Automotive
- Architectural

7.8.5 Accelerants

- Flammable liquids and residues there of

7.8.6 Explosives and Primers

7.8.7 Gunshot Residues

7.8.8 Noxious Substances

- Crowd control agents
- capsaicin
- o-chlorobenzalmalononitrile (CS)
- chloroacetophenone (CN)

7.8.9 Examination Documents

7.9: ION ACTIVITY

7.9.1 pH Standards

7.9.2 Ion Selective Electrode Calibrants

7.9.3 Conductivity Standards

7.9.4 Buffer Systems

8. CATEGORY B: BIOLOGICAL AND CLINICAL PROPERTIES

Materials similar to Category A, but characterised for one or more biochemical or clinical property values.

8.1 GENERAL MEDICINE

8.1.1 Human Serum Materials (powder and solution forms)

8.2 CLINICAL CHEMISTRY

8.2.1 Proteins

8.2.2 Apolipoproteins

8.2.3 Enzymes

8.2.4 Hormones

8.2.5 Trace Elements



Lead and cadmium

8.2.6 Routine Blood Analytes like urea, uric acid, glucose etc.

8.3 TISSUE PATHOLOGY AND CYTOLOGY

8.4 HAEMATOLOGY

8.4.1 Blood

8.5 IMMUNOHAEMATOLOGY

8.6 IMMUNOLOGY

8.7 PARASITOLOGY

8.8 BACTERIOLOGY AND MYCOLOGY

8.8.1 Reference cultures

8.8.2 Antibiotics

8.9 VIROLOGY

8.10 OTHER BIOLOGICAL AND CLINICAL REFERENCE MATERIALS

8.11 FORENSIC REFERENCE MATERIALS

Purified DNA of known and continuing genetic composition

Human, primate and animal blood

Animal hairs

Fibres

9. CATEGORY C: PHYSICAL PROPERTIES

Materials characterized for one or more physical property values, e.g. melting point, viscosity, density.

9.1 REFERENCE MATERIALS WITH OPTICAL PROPERTIES

9.1.1 Optical Rotation

9.1.2 Refractive Index

9.3 Spectral Absorbance

Visible

Ultraviolet

Infrared



9.1.4 Specular Reflectance

9.1.5 Colour

White reference material (opal glass)

Ceramic tiles

9.2 REFERENCE MATERIALS WITH ELECTRICAL AND MAGNETIC PROPERTIES

9.2.1 Dielectric strength

9.2.2 Resistivity

9.2.3 Magnetic susceptibility

9.3 REFERENCE MATERIALS FOR FREQUENCY MEASUREMENTS

9.4 REFERENCE MATERIALS FOR RADIOACTIVITY

9.4.1 Radiation Dosimetry

9.4.2 Radiopharmaceuticals

9.4.3 Labelled Compounds

9.4.4 Natural Matrix Materials

9.4.5 Carbon-14 Dating

9.5 REFERENCE MATERIALS FOR THERMODYNAMIC PROPERTIES

9.5.1 Calorimetry

9.5.2 Thermal Conductivity

Metals

Pyrex glass

Resin-bonded fibre board

9.5.3 Vapour Pressure

9.5.4 Thermal Expansion

9.5.5 Thermal Resistance

9.5.6 ITS-90 Temperature Fixed Point

9.5.7 Curie Point



9.5.8 Boiling Point

9.5.9 Melting Point

9.5.10 Thermal Analysis Standards

9.6 REFERENCE MATERIALS FOR PHYSICOCHEMICAL PROPERTIES

9.6.1 Density

9.6.2 Viscosity

9.6.3 Surface Tension

9.6.4 Molecular Weight

9.7 REFERENCE MATERIALS FOR FIBRE IDENTIFICATION

9.7.1 Natural Fibres

Animal hairs

Plant fibres

9.7.2 Synthetic Fibres

Organic polymers

Inorganic fibres

9.7.3 Asbestos Fibres

Crude fibres

Mounted specimens for fibre counting

9.8 REFERENCE MATERIALS FOR OTHER PROPERTIES

9.8.1 Shear Testing of Powders

9.8.2 Minerals for X-ray Diffraction

10. CATEGORY D: ENGINEERING PROPERTIES

Materials characterized for one or more engineering property values (e.g. hardness, tensile strength, surface characteristics, etc).



10.1 SURFACE FINISH

10.1 Surface Roughness

10.2 Corrosion

10.3 Abrasive Wear

10.4 Properties of Films and Surfaces

Nominal thickness

- X-Ray fluorescence
- Beta particle backscattering
- Ion beam sputtering

10.2 SIZING

10.2.1 Particle Size

Particulate materials

Latex sphere suspensions

10.2.2 Surface Area

10.3 NON-DESTRUCTIVE TESTING

10.3.1 Dye Penetrant Test Blocks

10.3.2 Artificial Flaw for Eddy Current

D3.3 Magnetic Particle Inspection

10.4 HARDNESS

10.4.1 Hardness Standardised Block (Rockwell/ Vickers/ Brinell)

10.4.2 Microhardness

10.5 IMPACT TOUGHNESS

10.5.1 Charpy Impact Standardised Blocks (Notches U/V/ Keyhole)

10.5.2 Izod Impact Standardised Block

10.6 TENSILE STRENGTH



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10.7 ELASTICITY

10.8 CREEP

10.9 FIRE RESEARCH

10.9.1 Surface Flammability

10.9.2 Smoke Density

11. CATEGORY E: MISCELLANEOUS

11.1: OTHERS

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