



# Guidance on Description of Fixed Scopes for Laboratories

Copy No.
Page 1 of 35
Document No. GD07/01
Rev No. 1.4
Effective date 2023-02-07

Prepared by: <b>Zewdu Ayele</b>	Approved by: <b>Meseret Tessema</b>
Position: <b>Quality Manager</b>	Position: <b>Director General</b>
Signature:	Signature:

## Contents

1. Purpose.....	2
2. Scope .....	2
3. References.....	2
4. Scoping of Accreditation for Laboratories .....	2
5. Methods Reflected on the Scope of Accreditation .....	3
6. Technical Signatories .....	4
7. Equipment Reflected on the Scope of Accreditation.....	4
8. IEC Product Categories Reflected on Scopes of Accreditation.....	4
9. Scope of Accreditation in areas Regulated by Legislation .....	5
10. Branch or Satellite Laboratories.....	5
1 Classification of Activities .....	5
2 Description of Fields .....	7

## 1. Purpose

This document provides guidance on the application of fixed scopes for accreditation for all testing, calibration and medical laboratories.

## 2. Scope

This document is applicable for testing, calibration or medical laboratory.

## 3. References

The following documents are referenced:

ISO/IEC 17011:2017 Conformity Assessment – General requirements for accreditation bodies accrediting conformity assessment bodies;

ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories;

ISO 15189:2012 Medical laboratories – Particular requirements for quality and competence;

ILAC G18, Guidelines for the formulation of scopes for accreditation of laboratories.

## 4. Scoping of Accreditation for Laboratories

- 4.1. The aim of the scope of accreditation is to reflect the activities for which the laboratory is accredited in either a fixed format, as covered by this Guidance Document, or in a flexible format as covered by GD07/02.
- 4.2. The certificate of accreditation shall contain the details of the name and address of accredited facility, the accreditation number, the relevant dates and the field/s of accreditation and the attached scope of accreditation.
- 4.3. The purpose of the Scope of Accreditation is to specify the realm within which the laboratory has been accredited so that third-parties can understand what field/activity the laboratory operates, what material or product is tested or calibrated, and what measurement or testing method is used. The method is specifically designated so that there is an associated understanding that the laboratory is accredited for the application of that method on the designated material or product and that the working range and measurement uncertainty associated with that method is known but not necessarily published in the Scope.

## 5. Methods Reflected on the Scope of Accreditation

5.1. The following types of methods are reflected on the schedule of accreditation:

- methods developed 'in-house' by the lab;
- internationally or nationally accepted standard methods that were developed by a national/international standards body or other competent body;
- methods generally accepted as a standard method by an industry sector; and
- Methods published in national or international scientific literature.

5.2. If the method is developed 'in-house' and bears reference to one or more standard or published methods and the laboratory wishes to reflect these references on the scope of accreditation, the laboratory must specify to what parts of the reference method the in-house method conforms. Such claims must be made on application so that the assessment covers the relevant referenced methods.

5.3. When accredited methods are being revised, amended or updated, the laboratory is allowed to modify and use these methods with agreement from their customer and without prior approval from EAS provided that:

- The method is not materially different in technique in terms of equipment used or competencies required;
- The method's measurement range or measurement uncertainty is not significantly expanded beyond that which was originally assessed; and
- The material/product type or sample matrix covered by the scope remains the same.

5.4. When update of accredited methods results in a change of technique, required competencies, matrix, measurement range or uncertainty then the laboratory shall apply to EAS indicating the extent and nature of the change with supporting documentation. EAS will review and advise as to whether:

- the update is acceptable and the scope will be changed;
- further documentation is required for a desk-top evaluation; or
- An on-site assessment is required.

## 6. Technical Signatories

Technical signatories take overall responsibility for the output from specified tests/calibrations and are assessed for their overall technical capability to ensure that the results/measurements produced by the laboratory are reliable and accurate within the capability of the relevant methods.

## 7. Equipment Reflected on the Scope of Accreditation

- 7.1. Where the method is open to interpretation depending on the equipment used resulting in significantly different measurement ranges and uncertainties then the scope of accreditation shall include the type of equipment associated with the method.
- 7.2. In these instances, when a laboratory is planning to change equipment, the requirements of Clause 5.3 apply.

## 8. IEC Product Categories Reflected on Scopes of Accreditation

- 8.1. For fields using IEC standards, the IEC product category abbreviations will be featured.

<b>ABBREV</b>	<b>DESCRIPTION</b>
---------------	--------------------

BATT	Batteries
CABL	Cables and Cords
CAP	Capacitors as components
CONT	Switches for appliances and automatic controls for electrical household
EMC	appliances
HOUS	Electromagnetic Compatibility
LITE	Household and similar equipment
MEAS	Lighting
MED	Measuring instruments
MISC	Electrical equipment for medical use
OFF	Miscellaneous
POW	IT and office equipment
PROT	Low voltage, high power switching equipment
PV	Installation protective equipment
SAFE	Photovoltaic

TOOL Safety transformers and similar equipment

TOYS Portable tools

Electric Toys

8.2. Where the IEC standards are generic and laboratories have to develop procedures and testing concepts for almost each customer, the laboratory will apply for flexible scope accreditation in accordance with GD07/02.

8.3. The scope of accreditation will reflect as far as possible the classification system contained in this document. However due the nature of a flexible scope, the wording of the sub-classes may be modified to account for the broader context of the testing activities. The instrument detector types must be mentioned on the scope of accreditation.

## 9. Scope of Accreditation in areas Regulated by Legislation

In specific fields associated with a regulatory approval process, the scope of accreditation may reflect regulatory aspects pertaining to the testing activities, e.g. references to a particular Act or regulation.

## 10. Branch or Satellite Laboratories

10.1. The activities of accredited satellite laboratories may be included in the scope of accreditation of the main laboratory. The activities and personnel involved in the satellite laboratory shall be clearly distinguishable from the main laboratory on the combined scope of accreditation.

10.2. Satellite laboratories can also obtain their own unique scope of accreditation.

10.3. Branch or satellite laboratories can't be considered as part of flexible scope of the main laboratory.

## 11. Classification of Activities

The following descriptors can be used for drawing up a scope of accreditation and are offered as guidelines only. In many cases a laboratory may require specific coverage of a scope that is either more detailed or more wide-ranging, leading possible to flexible scoping as described in GD07/02. In all cases the accreditation application is reviewed objectively by EAS and the assessment is geared technically to ensure that, whatever descriptors are used in the Accreditation Scope, EAS has assessed the laboratory's capability to fulfil the specified scope.

11.1. Typical fields in which EAS offers accreditation for laboratories:

- Calibration;
- Medical testing;
- Veterinary testing;
- Forensic testing;
- Chemical analysis;
- Microbiological examination;
- Hydro biological & toxicity testing;
- Civil Engineering Testing;
- Electrical Testing;
- Environmental Testing;
- Mechanical, Material and Physical Testing;
- Forensic;
- Non-destructive testing;
- Information Technology Analysis;
- Optics and Radiometry testing;
- Sampling (accreditation not provided for sampling as a stand alone field);
- Testing of Reference Materials (Classified according to ILAC G12).

11.2. Each field can be sub-divided into a Material/Product category and Material/Product. In the case of the medical and calibration fields, the discipline is prescribed instead of material/product category. Annex A: *Classification of Scopes* can be used as a guide in selection of the scope based on the Field of Activity, the Material/Product Category and the Material/Product. The resulting selection may lead to a scope such as the following:

Field: Microbiological Examination  
 Material/Product Category: Food and Food Products  
 Material/Product: Dairy Products  
 Method: ISO Method XYZ

## 12. Description of Fields

- 12.1. Calibration:** Physical measurement and comparison against known standards traceable to national and international standards.
- 12.2. Medical Testing:** Chemical, physical and biological examination of all medically related material to the human body in the fields of clinical chemistry, endocrinology, haematology, bacteriology, Immuno haematology, parasitology, serology, immunology, mycology, cytology, molecular biology, virology, urinalysis, and Andrology.
- 12.3. Veterinary Testing:** Chemical, physical and biological examination of animal tissue, blood, serum, parasites, animal feeds, veterinary drugs and remedies in the fields of chemistry, microbiology, bacteriology, parasitology, serology, immunology, mycology, molecular biology, virology, and histopathology.
- 12.4. Forensic testing:** Chemical, physical and biological testing or examination in of a variety of material, products or situations in order to establish objective evidence for establishing factual occurrences which will be produced as legal evidence in a court of law.
- 12.5. Chemical and Biological Testing:** Chemical, biological, microbiological and biochemical testing and measurement of materials and products including food, drugs and pharmaceuticals. It covers instrumental and automated methods of analysis and detection, and also associated physical testing such as measurement of viscosity.
- 12.6. Civil Engineering Testing:** Measurement of strength, mechanical and physical testing of materials, structure and assemblies involved in building and construction works. Non-destructive testing of concrete and testing of soil also comes under this field.
- 12.7. Non-Destructive Testing:** Examination of articles and structures by techniques such as radiography, ultrasonic, penetrant, magnetic particle and eddy currents.
- 12.8. Electrical Testing:** Measurement of electrical properties and testing of electrical and electronic components and equipment including commercial and industrial equipment and

home appliances. Environmental reliability testing of materials, components and equipment also comes under this field.

**12.9. Environmental Testing:** Measurement of environmental parameters including physical, chemical and microbiological testing of materials and products such as air, water/wastewater, trade effluent and solid/semisolid samples. Testing of environmental noise and vibration can be included.

**12.10. Mechanical, Material & Physical Testing:** Measurement of mechanical properties and physical testing of materials, structure and assemblies including metals and metal products, textiles and textile products, paper and paper products, toys, etc.; and metallographic tests. Not included in this field are testing of cement, concrete and soil.

**12.11. Optics & Radiometry & Radiation:** The field of Optics and Radiometry covers the testing of geometrical and optical properties of components and systems; radiometric measurements of irradiance and distribution temperature; spectrophotometric measurements; luminous intensity and luminous flux measurement on lamps and luminaires; the measurement of luminance, illuminance, luminous transmittance, luminous reflectance, luminance factor and colour.

**12.12. Sampling** (accreditation is not provided for sampling as a stand alone field): This field takes into account major sampling and sample preparation processes. For example, sampling and sample preparation of iron ore.

### **12.13. Testing of Reference Materials**

**12.14. Information Technology Analysis:** This field takes into account software process capability testing.

**12.15. Heat & Temperature Measurement Tests:** This field accounts for heat and temperature measurements taken of the macro and micro-environment.



**ANNEX A: Classification of Scopes**

FIELD	DISCIPLINE	MATERIAL/PRODUCT
<b>Calibration</b>	Force	<ul style="list-style-type: none"> <li>Compressive strength testing machines</li> <li>Tensile strength testing machines</li> <li>Dynamic testing machine</li> <li>Bending strength tester</li> <li>Hardness tester</li> </ul>
	Dimension	<ul style="list-style-type: none"> <li>Thickness standards</li> <li>External thickness measuring devices</li> <li>Length and depth measuring devices</li> <li>Plated surface measuring devices</li> <li>Length measuring devices fixed on test equipment</li> <li>Microscopes</li> <li>Dimensional measurement of specimens used by testing equipment</li> </ul>
	Mass	<ul style="list-style-type: none"> <li>Mass pieces</li> <li>Weighing instruments</li> <li>Mass flow measuring devices for solid material</li> <li>Mass measurement of specimens used by testing equipment</li> </ul>
	Pressure	<ul style="list-style-type: none"> <li>Oil medium pressure</li> <li>Oil medium pressure gauges, 0,5 to 1200 bar</li> <li>Vacuum gauges</li> <li>Negative pressure gauges</li> <li>Concrete test hammers</li> <li>Manometers</li> <li>Pressure transducers</li> </ul>
	Electrical	<ul style="list-style-type: none"> <li>AC, DC source measuring devices, max 1000V</li> <li>AC, DC source measuring device, 1000V to 10 KV</li> <li>AC, DC current measuring devices, max 20 A</li> </ul>

## Guidance on Description of Fixed Scopes for Laboratories

Copy No.

Page 10 of 35

Document No. GD07/01

Rev No. 1.4

Effective date **2023-02-07**

	<ul style="list-style-type: none"> <li>• AC, DC current measuring devices, max 20 A to 4000 A</li> <li>• Energy meters, less than an accuracy of 0,2% of reading</li> <li>• Resistance measurement of sensors used in control and measurement systems</li> </ul>
Torque	<ul style="list-style-type: none"> <li>• Torque wrench</li> </ul>
Time & frequency	<ul style="list-style-type: none"> <li>• RPM measuring devices</li> <li>• Frequency meters</li> <li>• Stopwatches</li> </ul>
Humidity	<ul style="list-style-type: none"> <li>• Hygrometers</li> <li>• Constant humidity mediums</li> </ul>
Light	<ul style="list-style-type: none"> <li>• Luminous intensity lamp</li> </ul>
Volume	<ul style="list-style-type: none"> <li>• Small volume measuring instruments (1 ml to 20 l)</li> <li>• Medium volume standards (50l to 3000l)</li> <li>• Volumetric tanks</li> <li>• Multichannel piston pipettes</li> <li>• Liquid flow meters</li> </ul>
Density	<ul style="list-style-type: none"> <li>• Liquid density measuring devices</li> </ul>
Chemical	<ul style="list-style-type: none"> <li>• Lovibond tintometer colour isolator</li> <li>• pH meters</li> <li>• Viscometers</li> <li>• Spectrometers used for analyzing solids</li> <li>• Spectrometers used for analysing liquids</li> <li>• Spectrometers used for analyzing gases</li> <li>• Forensic medicine</li> <li>• Conductivity meters</li> </ul>

**Medical Laboratory**

<b>FIELD</b>	<b>DISCIPLINE</b>	<b>MATERIAL/PRODUCT</b>
<b>Medical Testing</b>	Clinical Chemistry	<ul style="list-style-type: none"> <li>• Serum</li> <li>• Whole Blood</li> <li>• CSF</li> <li>• Plasma</li> </ul>
	Endocrinology	<ul style="list-style-type: none"> <li>• Plasma</li> <li>• Blood</li> <li>• Bone marrow</li> <li>• Urine</li> <li>• Skin</li> </ul>
	Haematology	<ul style="list-style-type: none"> <li>• Plasma</li> <li>• Whole blood</li> <li>• Bone marrow</li> <li>• Urine</li> <li>• Skin</li> </ul>
	Immunoematology	<ul style="list-style-type: none"> <li>• Whole blood</li> <li>• Serum</li> </ul>
	Bacteriology (examination of all human pathogens including TB)	<ul style="list-style-type: none"> <li>• Urine</li> <li>• CSF</li> <li>• Sputum</li> <li>• Stool</li> <li>• Respiratory tract samples</li> <li>• Human tissue</li> <li>• Whole blood</li> <li>• Body fluids</li> <li>• Synovial fluids</li> <li>• Nasal swabs</li> <li>• Nasal secretion</li> <li>• Superficial site samples</li> <li>• Genital tract samples</li> </ul>

## Guidance on Description of Fixed Scopes for Laboratories

Copy No.

Page 12 of 35

Document No. GD07/01

Rev No. 1.4

Effective date **2023-02-07**

FIELD	DISCIPLINE	MATERIAL/PRODUCT
		<ul style="list-style-type: none"> <li>• Urethral and female genital swabs</li> <li>• Sterile body site</li> <li>• Culture</li> <li>• Subculture</li> </ul>
	Parasitology	<ul style="list-style-type: none"> <li>• Stool</li> <li>• Rectal swab</li> <li>• Whole blood</li> </ul>
	Serology	<ul style="list-style-type: none"> <li>• Serum</li> <li>• Sputum</li> <li>• Skin</li> <li>• CSF</li> <li>• Respiratory tract swabs</li> <li>• Whole blood</li> </ul>
	Immunology	<ul style="list-style-type: none"> <li>• Whole blood</li> <li>• Plasma</li> </ul>
	Mycology	<ul style="list-style-type: none"> <li>• Skin scrapings</li> <li>• Hair or nail clippings</li> <li>• Tissue</li> <li>• Vaginal swab</li> <li>• Body fluid</li> <li>• Sputum</li> <li>• Blood</li> </ul>
	Cytology	<ul style="list-style-type: none"> <li>• Pleural fluid</li> <li>• Cerebrospinal fluid</li> <li>• Breast aspirate</li> <li>• Lymph node</li> <li>• Thyroid aspirate</li> <li>• Tumour aspirate</li> <li>• Vaginal discharge/swab</li> </ul>
	Molecular biology	<ul style="list-style-type: none"> <li>• Vaginal discharge/swab</li> <li>• Serum</li> </ul>

**Guidance on Description of  
Fixed Scopes for Laboratories**

FIELD	DISCIPLINE	MATERIAL/PRODUCT
		<ul style="list-style-type: none"> <li>• Plasma</li> <li>• Throat swab</li> <li>• Nasopharyngeal swab</li> </ul>
	Virology	<ul style="list-style-type: none"> <li>• Whole blood</li> <li>• Serum</li> <li>• Throat swab</li> <li>• Nasopharyngeal swab</li> <li>• Plasma</li> <li>• Stool</li> </ul>
	Urinalysis and body fluid analysis	<ul style="list-style-type: none"> <li>• Urine sediment</li> <li>• Spinal fluid</li> <li>• Urine</li> </ul>
	Andrology	<ul style="list-style-type: none"> <li>• Semen/seminal fluid</li> </ul>

**Testing Laboratory**

FIELD	DISCIPLINE	MATERIAL/PRODUCT
<b>Veterinary Testing</b>	Chemical	<ul style="list-style-type: none"> <li>• Animal feeds</li> <li>• Veterinary drugs and remedies</li> <li>• Water</li> <li>• Soil</li> <li>• Blood</li> <li>• Urine</li> <li>• Faeces</li> </ul>
	Microbiological	<ul style="list-style-type: none"> <li>• Animal feeds</li> <li>• Veterinary drugs and remedies</li> <li>• Water</li> <li>• Soil</li> <li>• Blood</li> <li>• Urine</li> </ul>

## Guidance on Description of Fixed Scopes for Laboratories

Copy No.

Page 14 of 35

Document No. GD07/01

Rev No. 1.4

Effective date **2023-02-07**

		<ul style="list-style-type: none"> <li>• Faeces</li> </ul>
	Bacteriological	<ul style="list-style-type: none"> <li>• Animal feeds</li> <li>• Veterinary drugs and remedies</li> <li>• Water</li> <li>• Soil</li> <li>• Blood</li> <li>• Urine</li> <li>• Faeces</li> </ul>
	Serology	<ul style="list-style-type: none"> <li>• Serum</li> <li>• Sputum</li> <li>• Skin</li> <li>• CSF</li> <li>• Respiratory tract swabs</li> <li>• Blood</li> </ul>
	Molecular Biology	<ul style="list-style-type: none"> <li>• Serum</li> <li>• Plasma</li> <li>• Swabs</li> </ul>
	Immunology	<ul style="list-style-type: none"> <li>• Blood</li> <li>• Plasma</li> </ul>
	Histopathology	<ul style="list-style-type: none"> <li>• Livestock feed</li> <li>• Tissue</li> </ul>
	TB	<ul style="list-style-type: none"> <li>• Swabs</li> <li>• Fluids</li> <li>• Blood</li> </ul>
<b>Forensic Testing</b>	Toxicology	<ul style="list-style-type: none"> <li>• General toxicology</li> <li>• Blood, urine alcohol</li> </ul>
	Trace evidence	<ul style="list-style-type: none"> <li>• Fire debris</li> <li>• Explosives</li> <li>• Gunshot residue</li> <li>• Paint</li> <li>• Polymers</li> <li>• Fibres &amp; textiles</li> </ul>

## Guidance on Description of Fixed Scopes for Laboratories

Copy No.
Page 15 of 35
Document No. GD07/01
Rev No. 1.4
Effective date <b>2023-02-07</b>

		<ul style="list-style-type: none"> <li>• Glass</li> <li>• Physical comparison</li> <li>• Hair</li> <li>• Analysis of unknowns</li> </ul>
	Control substances	<ul style="list-style-type: none"> <li>• General control substances</li> </ul>
	Firearms/tool marks	<ul style="list-style-type: none"> <li>• Firearms</li> <li>• Tool marks</li> <li>• Impression evidence</li> <li>• Latent print evidence</li> </ul>
	Digital and multimedia evidence	<ul style="list-style-type: none"> <li>• Computer forensics</li> <li>• Video analysis</li> <li>• Audio analysis</li> </ul>
	Latent print	<ul style="list-style-type: none"> <li>• Latent print processing</li> <li>• Latent print comparison</li> </ul>
	Biology	<ul style="list-style-type: none"> <li>• Serology</li> <li>• DNA nuclear</li> <li>• DNA mitochondrial</li> </ul>
<b>Chemical Analysis</b>	<b>Food and food products</b>	<ul style="list-style-type: none"> <li>• Cereal products;</li> <li>• Nuts and nut products,</li> <li>• Dairy products,</li> <li>• Meat and meat products,</li> <li>• Fish, crustaceans and mollusks,</li> <li>• Sugar and sugar products,</li> <li>• Confectionery,</li> <li>• Fruit, jams and other fruit products,</li> <li>• Vegetables and vegetable products,</li> <li>• Alcoholic beverages,</li> <li>• Soft drinks and cordials,</li> <li>• Fruit juices and concentrates,</li> <li>• Edible fats and oils,</li> <li>• Margarine,</li> <li>• Eggs and egg products,</li> </ul>

## Guidance on Description of Fixed Scopes for Laboratories

Copy No.

Page 16 of 35

Document No. GD07/01

Rev No. 1.4

Effective date **2023-02-07**

		<ul style="list-style-type: none"> <li>• Pet foods,</li> <li>• Antioxidants in foods</li> <li>• Colorants in foods,</li> <li>• Preservatives in foods,</li> <li>• Additives in foods,</li> <li>• Vitamins in foods,</li> <li>• Fats, oils &amp; waxes;</li> <li>• Sampling)</li> </ul>
	<b>Metals and metal alloys</b>	<ul style="list-style-type: none"> <li>• Ferrous materials,</li> <li>• Copper and copper alloys,</li> <li>• Aluminium and aluminium alloys,</li> <li>• Tin and tin alloys,</li> <li>• Nickel, chromium, cobalt and their alloys,</li> <li>• Precious metals,</li> <li>• <input type="checkbox"/> Sampling</li> </ul>
	<b>Ores &amp; Minerals</b>	<ul style="list-style-type: none"> <li>• (Iron ores, Mineral sands, Precious metal ores, Limestone &amp; dolomite, Precious metals ores, Metallurgical products)</li> </ul>
	<b>Petroleum &amp; Petroleum Products</b>	<ul style="list-style-type: none"> <li>• Fuels (gas, liquid, coal &amp; coke, charcoal, solid fuels)</li> <li>• Lubricants (oil &amp; greases and solid lubricants)</li> <li>• Petroleum products (waxes, petrolatum, white oils, soluble &amp; emulsifying oils)</li> </ul>
	<b>Waters</b>	<ul style="list-style-type: none"> <li>• Waters for potable and domestic purposes</li> <li>• Waters for irrigation and stock</li> <li>• Waters for industrial purposes</li> </ul>



## Guidance on Description of Fixed Scopes for Laboratories

		<ul style="list-style-type: none"> <li>• Sewage &amp; Effluent</li> <li>• Trade Effluent</li> <li>• Saline waters</li> <li>• Borehole waters</li> <li>• Sampling</li> <li>• Other waters</li> <li>• Toxicity &amp; lethality tests</li> <li>• Hydro biological tests</li> </ul>
	<b>Solvents and Detergents</b>	<ul style="list-style-type: none"> <li>• Disinfectants</li> <li>• Detergents</li> <li>• Liquid Soaps</li> <li>• Antiseptics</li> </ul>
	<b>Residues in foods and agricultural materials</b>	<ul style="list-style-type: none"> <li>• Elements</li> <li>• Pesticides</li> <li>• Antibiotics</li> <li>• Insect infestation</li> <li>• Mycotoxins</li> <li>• Agricultural chemicals</li> <li>• Polyhalogenated biphenyls</li> <li>• Chlorinated dioxins and dibenzofurans</li> <li>• Sampling</li> <li>• Other residues</li> </ul>
	<b>Agricultural products and materials</b>	<ul style="list-style-type: none"> <li>• Cereal grains and by-products</li> <li>• Oil seeds and by-products</li> <li>• Feedstock</li> <li>• Vitamins in feedstock</li> <li>• Wood and timber treatment materials</li> <li>• Insecticide and acaricide formulations</li> <li>• Herbicide formulations</li> </ul>

## Guidance on Description of Fixed Scopes for Laboratories

Copy No.
Page 18 of 35
Document No. GD07/01
Rev No. 1.4
Effective date <b>2023-02-07</b>

		<ul style="list-style-type: none"> <li>• Fungicide formulations</li> <li>• Tobacco and tobacco products</li> <li>• Fertilizers and liming materials</li> <li>• Soils</li> <li>• Plant tissue</li> <li>• Compost</li> <li>• Sampling</li> <li>• Other agricultural products</li> </ul>
	<b>Drugs and pharmaceuticals</b>	<ul style="list-style-type: none"> <li>• Drugs</li> <li>• Medicinal and veterinary preparations</li> <li>• Vitamins</li> <li>• Antibiotics</li> <li>• Hormones</li> <li>• Vaccines and sera</li> <li>• Enzymes</li> <li>• Chemicals used in compounding pharmaceuticals</li> <li>• Sampling</li> <li>• Cosmetics, perfumes and essential oils</li> </ul>

## Guidance on Description of Fixed Scopes for Laboratories

Copy No.
Page 19 of 35
Document No. GD07/01
Rev No. 1.4
Effective date <b>2023-02-07</b>

<p><b>Biological testing, hydro-biological and Toxicity testing</b></p>	<p><b>Food and food products</b></p>	<ul style="list-style-type: none"> <li>• Cereal products</li> <li>• Nuts and nut products</li> <li>• Dairy products</li> <li>• Meat and meat products</li> <li>• Fish, crustaceans and mollusks</li> <li>• Sugar and sugar products</li> <li>• Confectionery</li> <li>• Fruit, jams and other fruit products</li> <li>• Vegetables and vegetable products</li> <li>• Alcoholic beverages</li> <li>• Soft drinks and cordials</li> <li>• Fruit juices and concentrates</li> <li>• Edible fats and oils</li> <li>• Margarine</li> <li>• Eggs and egg products</li> <li>• Pet foods</li> <li>• Antioxidants in foods</li> <li>• Colorants in foods</li> <li>• Preservatives in foods</li> <li>• Additives in foods</li> <li>• Vitamins in foods</li> <li>• Fats, oils &amp; waxes</li> <li>• Sampling</li> </ul>
	<p><b>Waters</b></p>	<ul style="list-style-type: none"> <li>• Waters for potable and domestic purposes</li> <li>• Waters for irrigation and stock</li> <li>• Waters for industrial purposes</li> <li>• Sewage &amp; Effluent</li> <li>• Trade Effluent</li> <li>• Saline waters</li> <li>• Borehole waters</li> <li>• Sampling</li> </ul>

## Guidance on Description of Fixed Scopes for Laboratories

		<ul style="list-style-type: none"> <li>• Other waters</li> <li>• Toxicity &amp; lethality tests</li> <li>• Hydro biological tests</li> </ul>
	<b>Solvents and Detergents</b>	<ul style="list-style-type: none"> <li>• Disinfectants</li> <li>• Detergents</li> <li>• Liquid Soaps</li> <li>• Antiseptics</li> </ul>
	<b>Residues in foods and agricultural materials</b>	<ul style="list-style-type: none"> <li>• Elements</li> <li>• Pesticides</li> <li>• Antibiotics</li> <li>• Insect infestation</li> <li>• Mycotoxins</li> <li>• Agricultural chemicals</li> <li>• Polyhalogenated biphenyls</li> <li>• Chlorinated dioxins and dibenzofurans</li> <li>• Sampling</li> <li>• Other residues</li> </ul>
	<b>Agricultural products and materials</b>	<ul style="list-style-type: none"> <li>• Cereal grains and by-products</li> <li>• Oil seeds and by-products</li> <li>• Feedstock</li> <li>• Vitamins in feedstock</li> <li>• Wood and timber treatment materials</li> <li>• Insecticide and acaricide formulations</li> <li>• Herbicide formulations</li> <li>• Fungicide formulations</li> <li>• Tobacco and tobacco products</li> <li>• Fertilizers and liming materials</li> <li>• Soils</li> </ul>

## Guidance on Description of Fixed Scopes for Laboratories

		<ul style="list-style-type: none"> <li>• Plant tissue</li> <li>• Compost</li> <li>• Sampling</li> <li>• Other agricultural products</li> </ul>
	<b>Drugs and pharmaceuticals</b>	<ul style="list-style-type: none"> <li>• Drugs</li> <li>• Medicinal and veterinary preparations</li> <li>• Vitamins</li> <li>• Antibiotics</li> <li>• Hormones</li> <li>• Vaccines and sera</li> <li>• Enzymes</li> <li>• Chemicals used in compounding pharmaceuticals</li> <li>• Sampling</li> <li>• Cosmetics, perfumes and essential oils</li> </ul>
<b>Civil Engineering testing</b>	<b>Cement &amp; cementitious materials</b>	<ul style="list-style-type: none"> <li>• Clay based products</li> <li>• Masonry &amp; masonry units and segmental</li> <li>• pavers</li> <li>• Gypsum and gypsum products</li> <li>• Burnt clay masonry units</li> <li>• Concrete masonry units</li> </ul>
	<b>Concrete</b>	<ul style="list-style-type: none"> <li>• <b>Cement</b></li> </ul>
	<b>Asphalt, pavement and surfaces</b>	<ul style="list-style-type: none"> <li>• Bituminous materials; emulsions, modified</li> <li>• bitumen &amp; emulsions</li> <li>• Soils; gravel; sand</li> <li>• Road making materials</li> </ul>
	<b>Construction materials Inputs</b>	<ul style="list-style-type: none"> <li>• <b>Brick, reinforcing materials, tiles, plastering materials, Gypsum,</b></li> </ul>

## Guidance on Description of Fixed Scopes for Laboratories

Copy No.

Page 22 of 35

Document No. GD07/01

Rev No. 1.4

Effective date **2023-02-07**

		<b>Marble, Iron etc.</b>
	<b>Finishing Materials</b>	<ul style="list-style-type: none"> <li>• Tiles, concrete roof/ floor tiles, ceramic tiles, safety glazing</li> </ul>
	<b>Glass</b>	<ul style="list-style-type: none"> <li>• Geotextiles &amp; geosynthetic products</li> </ul>
	<b>Electrical Materials</b>	<ul style="list-style-type: none"> <li>• Conducting materials, conductors and resistance alloys</li> <li>• Resistors, resistance boxes and potential dividers, insulators</li> </ul>
<b>Electrical Testing</b>	<b>Voltage standards</b>	<ul style="list-style-type: none"> <li>• A.C./D.C.</li> </ul>
	<b>Instrument calibrators</b>	<ul style="list-style-type: none"> <li>• D.C. voltage</li> <li>• A.C. voltage</li> <li>• DC current</li> <li>• AD current</li> <li>• Resistance</li> </ul>
	<b>Indicating and recording instruments</b>	<ul style="list-style-type: none"> <li>• D.C. voltmeters</li> <li>• A.C voltmeters</li> </ul>
	<b>Bridges, potentiometers, test sets</b>	<ul style="list-style-type: none"> <li>• <b>Current</b></li> </ul>
	<b>Frequency and time measuring instruments and standards</b>	<ul style="list-style-type: none"> <li>• <b>Ampere</b></li> </ul>
	<b>Cells and batteries</b>	<ul style="list-style-type: none"> <li>• Primary cells</li> <li>• Accumulators</li> </ul>
	<b>Miscellaneous electrical tests</b>	<ul style="list-style-type: none"> <li>• Insulating gloves and tools</li> <li>• High voltage operating equipment</li> <li>• Insulated platform vehicles</li> <li>• Fire extinguishers</li> <li>• Fire detection and alarm systems</li> </ul> <p>Other tests</p>

## Guidance on Description of Fixed Scopes for Laboratories

<b>Environmental Testing</b>	<b>Gases &amp; Emissions</b>	<ul style="list-style-type: none"> <li>• Reference gases and mixtures</li> <li>• Industrial fumes and emissions</li> <li>• Engine emissions</li> <li>• Diesel particulates</li> <li>• Monocyclic aromatic hydrocarbons</li> <li>• Polycyclic aromatic hydrocarbons</li> <li>• Chlorinated dioxins and dibenzofurans</li> <li>• Mineral pollutants</li> <li>• Cyanide</li> <li>• Sampling</li> <li>• Other tests</li> </ul>
	<b>Workplace environment and hazards</b>	<ul style="list-style-type: none"> <li>• Asbestos</li> <li>• Respirable quartz</li> <li>• Inhaleable dust</li> <li>• Respirable dust</li> <li>• Organic vapours</li> <li>• Metals and metal compounds</li> <li>• Inorganic gases</li> <li>• Synthetic mineral fibre counting</li> <li>• Welding fumes and gases</li> <li>• Mine atmospheres</li> <li>• Sampling</li> <li>• Other tests</li> <li>• Air and gas filters</li> <li>• Respiratory protective devices</li> </ul>

## Guidance on Description of Fixed Scopes for Laboratories

Copy No.

Page 24 of 35

Document No. GD07/01

Rev No. 1.4

Effective date **2023-02-07**

	<p><b>Constituents of the environment</b></p>	<ul style="list-style-type: none"> <li>• Waters other than saline</li> <li>• Saline waters</li> <li>• Air – eg. Ambient air monitoring</li> <li>• Soils</li> <li>• Sediments</li> <li>• Solid waste</li> <li>• Bio solids</li> <li>• Atmospheric dust fall</li> <li>• Biota</li> <li>• Residues in constituents of the environment</li> <li>• Environment level nutrients</li> <li>• Sampling</li> <li>• Other test.</li> </ul>
	<p><b>Atmospheric tests</b></p>	<ul style="list-style-type: none"> <li>• Cold tests</li> <li>• Dry heat tests</li> <li>• Damp heat tests</li> <li>• Change of temperature tests</li> <li>• Solar radiation tests</li> </ul>
		<ul style="list-style-type: none"> <li>•</li> </ul>



**Guidance on Description of  
Fixed Scopes for Laboratories**

<b>Copy No.</b>
<b>Page 25 of 35</b>
<b>Document No. GD07/01</b>
<b>Rev No. 1.4</b>
<b>Effective date 2023-02-07</b>

<b>Mechanical, Material &amp; Physical Testing</b>	<b>Glass, Fibre &amp; polymer testing</b>	<ul style="list-style-type: none"> <li>• Wool and wool products</li> <li>• Textiles &amp; related products (leather)</li> <li>• Paints, film, resin, pigments, other</li> <li>• Rubber and related products</li> <li>• Plastics and related products</li> <li>• Pulpwood, pulp, paper, paperboard</li> <li>• products</li> <li>• Cotton fibre</li> <li>• Chemical Tests</li> <li>• Physical Tests</li> <li>• Mechanical Tests</li> <li>• Fibre rope and cordage</li> <li>• Timber and timber products</li> <li>• Gaskets, seals and packing's</li> <li>• Glass and glass products</li> </ul>
	<b>Metals and metal products testing</b>	<ul style="list-style-type: none"> <li>• Metal powders and sintered products</li> <li>• Welds and welded test specimens</li> <li>• Lifting gear and tensioning and staying</li> <li>• systems</li> <li>• Springs and energy absorbing devices</li> <li>• Steel and steel products</li> <li>• Rope &amp; wire strand</li> </ul>
	<b>Vehicle Safety Testing</b>	<ul style="list-style-type: none"> <li>• Road vehicle safety tests</li> <li>• Restraining devices (eg. Seat belts)</li> <li>• Anti-theft Devices</li> <li>• Steering systems</li> <li>• Frontal &amp; rear impact tests</li> <li>• Vehicle components</li> <li>• Brake components</li> <li>• Tow bars</li> <li>• Demisters</li> <li>• Air conditioning tests</li> </ul>

## Guidance on Description of Fixed Scopes for Laboratories

<b>Copy No.</b>
<b>Page 26 of 35</b>
<b>Document No. GD07/01</b>
<b>Rev No. 1.4</b>
<b>Effective date 2023-02-07</b>

	<p><b>Structures and containers; paper, packaging products &amp; packaging products</b></p>	<ul style="list-style-type: none"> <li>• UN Recommendations on Transport of dangerous goods regulations</li> <li>• Drums</li> <li>• Boxes</li> <li>• Jerri cans</li> <li>• Bags</li> <li>• Corrugated board containers</li> <li>• Specifications of cargo containers</li> </ul>
	<p><b>Fluid technology</b></p>	<ul style="list-style-type: none"> <li>• Plumbing and drainage fittings</li> <li>• Pipelines</li> <li>• Pipes, hoses, valves and fittings</li> <li>• Fire hose</li> <li>• Domestic water meters</li> <li>• Other tests</li> </ul>
		<ul style="list-style-type: none"> <li>•</li> </ul>

<p><b>Optics and Radiometry Testing</b></p>	<p><b>Optics</b></p>	<ul style="list-style-type: none"> <li>• <b>Geometry of optical components and systems</b></li> <li>• .01 Rear view mirrors</li> <li>• .11 Eye protection wear</li> <li>• .12 Sunglasses</li> <li>• <b>Optical quality</b></li> <li>• .01 Windows</li> <li>• .02 Windscreens</li> <li>• <b>Polarimetric instruments</b></li> <li>• <b>Refractive index</b></li> <li>• <b>Radiant flux (radiant power)</b></li> <li>• <b>Calibration of irradiance measuring instruments</b></li> <li>• <b>Broad band irradiance</b></li> <li>• <b>Luminous intensity</b></li> <li>• <b>Distribution of luminous intensity</b></li> <li>• <b>Luminous flux</b></li> <li>• <b>Luminance</b></li> <li>• <b>Illuminance</b></li> <li>• <b>Broad band visible light measurements</b></li> <li>• <b>Retro reflection</b></li> <li>• <b>Performance tests on luminaries</b></li> <li>• <b>Performance of lighting installations</b></li> <li>• <b>Spectral measurements of light sources</b></li> <li>• <b>Spectrophotometer</b></li> <li>• <b>Detectors</b></li> <li>• <b>Ionising radiation</b></li> <li>• <b>Performance tests on lasers and high radiant sources</b></li> </ul> <p><b>Other tests</b></p>
---	----------------------	--

## Guidance on Description of Fixed Scopes for Laboratories

Copy No.
Page 28 of 35
Document No. GD07/01
Rev No. 1.4
Effective date <b>2023-02-07</b>

	<b>Lamps</b>	<ul style="list-style-type: none"> <li>• Incandescent lamps, fluorescent lamps, high</li> <li>• intensity discharge lamps</li> </ul>
	<b>Luminaries photometry</b> -	<ul style="list-style-type: none"> <li>• Luminaries: Safety and performance testing, General, domestic, industrial, special application and emergency luminaires; helmet lights and vehicle lights.</li> <li>• Ballasts: Electromagnetic ballasts, AC and DC supplied electronic ballasts.</li> <li>• Transformers, converters, invertors</li> <li>• Single phase transformers to 25 kVA</li> <li>• Poly phase transformers to 40 kVA</li> <li>• Converters and invertors for lighting applications</li> <li>• Capacitors: Lighting and motor capacitors</li> <li>• Starting devices: Glow-starters, electronic starters, ignites, PECU's</li> <li>• Lamp holders and starter holders: Bayonet</li> <li>• cap and Edison screw lamp holders, lamp</li> <li>• holders for fluorescent lamps, starter holders.</li> <li>• Symbolic safety signs: Standard, radio luminescent, internally illuminated, retro-reflective and luminescent signs.</li> <li>• Retro-reflective materials and devices: <ul style="list-style-type: none"> <li>• Retro-reflectors, road studs, warning triangles, retro-reflective material for road</li> </ul> </li> </ul>

## Guidance on Description of Fixed Scopes for Laboratories

Copy No.
Page 29 of 35
Document No. GD07/01
Rev No. 1.4
Effective date <b>2023-02-07</b>

		<ul style="list-style-type: none"> <li>• signs, contour marking, registration plates,</li> <li>• chevrons.</li> <li>• Lenses, glasses and mirrors: Ophthalmic</li> <li>• lenses, lenses for sunglasses, safety glasses</li> <li>• and goggles, silvered glass mirrors and</li> <li>• mirrors for motor vehicles.</li> <li>• Illuminance meters</li> <li>• Luminance meters</li> <li>• Spectrophotometric measurements</li> <li>• Reflectance and transmittance</li> <li>• Retro-reflection</li> <li>• Colour measurements</li> <li>• Power electronics and EMC testing</li> <li>• Power measurements</li> <li>• Pulse measurements</li> </ul>
	<b>Radiation</b>	<ul style="list-style-type: none"> <li>• Sample processing</li> <li>• Radioisotopes</li> <li>• Radiochemical techniques</li> <li>• Environmental monitoring</li> <li>• Gamma spectrometry</li> </ul>
	<b>Non-destructive testing</b>	<ul style="list-style-type: none"> <li>• Radiographic Examination</li> <li>• Magnetic Particle Inspection including</li> <li>• Fluorescent technique</li> <li>• Ultrasonic Examination and Inspection of Components</li> <li>• Colour Contrast Liquid Penetrant Examination</li> <li>• Ultrasonic Thickness Gauging of Materials</li> </ul>

## Guidance on Description of Fixed Scopes for Laboratories

Copy No.

Page 30 of 35

Document No. GD07/01

Rev No. 1.4

Effective date **2023-02-07**

<b>Heat &amp; Temperature measurement tests</b>	<b>Determination of thermal properties of materials</b>	<ul style="list-style-type: none"> <li>• <b>Conductivity</b></li> </ul>
	<b>Tests on fire prevention systems</b>	<ul style="list-style-type: none"> <li>• Flammable Resistance</li> </ul>
	<b>Fire tests on building materials and structures</b>	<ul style="list-style-type: none"> <li>•</li> </ul>
	<b>Fire tests on textiles and related materials</b>	
	<b>Fire tests on plastic and plastic products</b>	
	<b>Performance tests on gas appliances and components</b>	
	<b>Performance tests on oil appliances and components</b>	
	<b>Performance tests on solid fuel appliances and components</b>	
	<b>Performance tests on electrical appliances and components</b>	
	<b>Performance tests on solar appliances and components</b>	
	<b>Performance tests on air-conditioning units and components</b>	
	<b>Hygrometry</b>	<ul style="list-style-type: none"> <li>• humidity</li> <li>• relative humidity</li> <li>• dew point</li> </ul>

**Note: Categories of Products**

**Short Designation Category & IEC Standards**

<b>BATT</b>	Batteries 60086, 60099, 60254, 61809, 61960, 61982, 62133, 62259, 62281
<b>CABL</b>	Cables and Cords 60227, 60245, 60702, 60799
<b>CAP</b>	Capacitors as components 60252, 60384, 60939, 61048, 61049
<b>CONT</b>	Switches for appliances and automatic controls for electrical household appliances 60691, 60730, 60934, 61058, 61095, 61508, 61810
<b>EMC</b>	Electromagnetic Compatibility, CISPR 11, CISPR 12, CISPR 13, CISPR 14, CISPR 15, CISPR 16, CISPR 20, CISPR22, CISPR 24, 60118, 60204, 60255, 60478, 60533, 60601, 60728, 60870, 60945, 60947,
<b>HOUS</b>	60974, 61000, 61131, 61204, 61326, 61543, 61547, 61800, 61812, 62040, 62041, 62052, 62053, 62054, 62153, 62236  Household and similar equipment, 60312, 60335, 60342, 60436, 60456, 60530, 60704, 60705, 60967, 61121, 61770, 61817
<b>LITE</b>	Installation accessories; 60083, 60309, 60320, 60423, 60439, 60614, 60669, 60670, 60684, 60807, 60884, 60974,  Lighting: 60064, 60155, 60238, 60360, 60400, 60432, 60570, 60598, 60838, 60901, 60920, 60921, 60922, 60924, 60926, 60927, 60928, 60929, 60968, 60969,

## Guidance on Description of Fixed Scopes for Laboratories

Copy No.
Page 32 of 35
Document No. GD07/01
Rev No. 1.4
Effective date <b>2023-02-07</b>

<b>MEAS</b>	61046, 61047, 61050, 61184, 61195, 61199, 61231, 61347, 62035
<b>MED</b>	Measuring instruments 60414, 61010, 61557
<b>MISC</b>	Electrical equipment for medical use 60580, 60601, 60976, 61676
<b>OFF</b>	Miscellaneous 60747, 60900, 60938
<b>POW</b>	IT and office equipment 60825, 60950, 62040
<b>PROT</b>	Low voltage, high power switching equipment (60158), 60947, 62026, 62271
<b>PV</b>	Installation protective equipment: 60127, (60257), 60269, 60282, 60529, 60755, 60898, 61008, 61009, 61643.
<b>Safe</b>	Photovoltaic: 60891, 60904 1 to 10 , 61194, 61215, 61345, 61646, 61702, 61721, 61829, 62093, PVRS11, PVRS11A
<b>Tool</b>	Safety transformers and similar equipment 60044, 60742, 61558.
<b>Toys</b>	Portable tools 60745, 61029, 61939. Electric Toys 62115.



Revision No.	Date approved	Revision History
1	2014-01-31	<p>Correction on page 6 of 22 under 12.2 Medical testing, chemistry is changed to clinical chemistry and to remove Coagulation Immunohematology is also added.</p> <p>On page 8 of 22 under Medical Testing chemistry is changed to clinical chemistry</p> <p>On page 9 of 22 under discipline Immunohematology and under Material/Product Whole blood and Serum is added</p> <p>Name of the person who has prepared the document was changed.</p>
1.1	2018-10-16	<p>This document was revised because of the new ISO/IEC 17011:2017</p>
1.2	2021-03-19	<ul style="list-style-type: none"> <li>• Separated Purpose and scope</li> <li>• Removed Guidance on the application of flexible scopes of accreditation is offered in GD07/02 from clause 1</li> <li>• Removed from reference ISO/IEC 17020:2012, General criteria for the operation of various types of bodies performing inspection; ISO/IEC 17021, Conformity assessment – Requirements for bodies providing audit and certification of management systems; ILAC Docs: <a href="http://www.ilac.org">www.ilac.org</a> ,IAF Docs: <a href="http://www.iaf.nu">www.iaf.nu</a> and EAS Docs: <a href="http://www.EAS-eth.org">www.EAS-eth.org</a></li> <li>• Removed Flexible Scope Accreditation</li> </ul> <p>Flexible scope or technique accreditation allows accredited laboratories to introduce new methods or modify existing methods within their scope of accreditation. The process of obtaining approval for flexible scope accreditation is detailed in the GD07/02.</p> <p>Added clause 10.3, Branch or satellite laboratories can't be considered as part of flexible scope of the main laboratory.</p>

1.3	2022-05-10	<p>Separate purpose and scope.</p> <ul style="list-style-type: none"> <li>Remove (Classified according to ILAC G12): The characterization of reference materials will be done according to ILAC G12 from item no. 12.13</li> </ul> <p>Annex A Testing</p> <ul style="list-style-type: none"> <li>Change Atmospheric Environmental tests to Atmospheric tests</li> <li>Change Measurement of dew point to dew point</li> <li>Change Testing of environmental chambers Calibration of humidity</li> <li>Change Measurement of relative humidity to humidity under hygrometer</li> <li>The document is revised due to the name ENAO change to EAS and new logo developed.</li> </ul>
1.4	2023-02-07	<ul style="list-style-type: none"> <li>Correction done on page 1 that, this document was prepared by Meseret Tessema replaced by Zewdu Ayele (new quality manager).</li> <li>Former director general was resigned and replaced by Mrs. Meseret Tessema.</li> </ul>

