

# Ethiopian Standards Agency

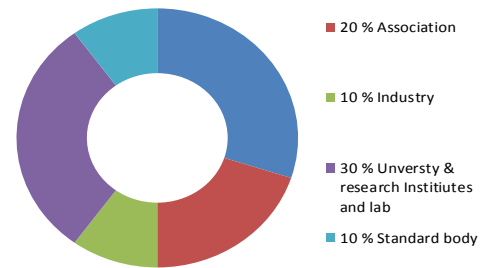
## National Technical Committee Structure

### TC 1 Quantities and units

**Scope :** Standardization of Units and symbols for quantities and units (and mathematical symbols) used with in different fields of science and technology, giving where necessary, definitions of these quantities and units.- Standard conversion factors between the various units. Application of statistical methods, including generation, collection planning and design, analysis, presentation and interpretation of data.

| S No | Composition TC 1                                            | Status               |
|------|-------------------------------------------------------------|----------------------|
| 1    | National Metrology Institute                                | Chairperson          |
| 2    | Ministry of Education                                       | Member               |
| 3    | Central Statistics Agency                                   | Member               |
| 4    | Addis Ababa University (AAU)- Department of Physics         | Member               |
| 5    | Technology and Innovation Institute                         | Member               |
| 6    | Metal and Engineering Corporation Quality Management Center | Member               |
| 7    | Ethiopian Statistics Professional Association               | Member               |
| 8    | Ethiopian Conformity Assessment Enterprise                  | Member               |
| 7    | Technical and Vocational Education Training Agency          |                      |
| 8    | National Metrology Institute                                | Chairperson          |
| 6    | Ethiopian Standards Agency                                  | Member and Secretary |

### TC 1 Sector

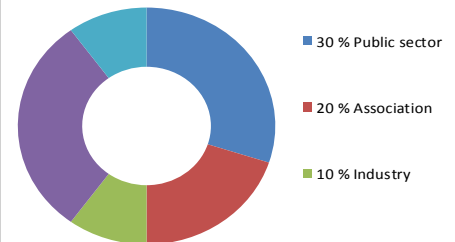


### TC 2 Information and Documentation

**Scope:** Standardization in the field of paper, board and pulps, including terminology, sampling procedures, test methods, product and quality specifications.

| S No | Composition TC 2                                                | Status               |
|------|-----------------------------------------------------------------|----------------------|
| 1    | Ethiopian National Archive and Library Agency                   | Chairperson          |
| 2    | Ministry of Innovation and Technology                           | Member               |
| 3    | Ministry of Education                                           | Member               |
| 4    | Addis Ababa University (AAU)- Department of Information Science | Member               |
| 5    | Ethiopian writers association                                   | Member               |
| 6    | Addis Ababa university institutes of Ethiopian studies          | Member               |
| 7    | Information Network Security Agency                             | Member               |
| 8    | Ethiopian Standards Agency                                      | Member and Secretary |

### TC 2 Sector

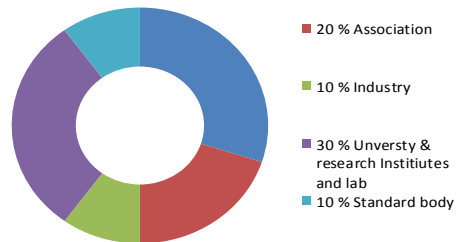


### TC 3 Paper, board and pulp

**Scope:** Standardization in the field of paper, board and pulps, including terminology, sampling procedures, test methods, product and quality specifications.

| S No | Composition TC 3                                                   | Status               |
|------|--------------------------------------------------------------------|----------------------|
| 1    | Chemical and Construction Inputs Industries Development Institutes | Chairperson          |
| 2    | Ethiopian Pulp & Paper S.C                                         | Member               |
| 3    | Yekatit Paper Converting Enterprise                                | Member               |
| 4    | Berhanena Selam Printing Enterprise                                | Member               |
| 5    | Burayu Carton Factory                                              | Member               |
| 6    | MAMCO PLC Paper Products Factory                                   | Member               |
| 7    | Minaye Packaging                                                   | Member               |
| 8    | Ethiopian Conformity Assessment Enterprise                         | Member               |
| 9    | Ethiopian Standards Agency                                         | Member and Secretary |

### TC 3 Sector

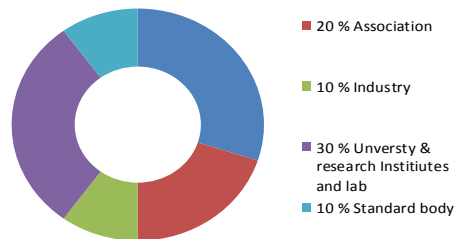


### TC 4 School materials and stationary items

**Scope:** Standardization of school materials and stationary that includes standardized scientific management focusing on quality, safety, health, environment, etc

| S No | Composition TC 4                                             | Status               |
|------|--------------------------------------------------------------|----------------------|
| 1    | Ministry of Education                                        | Chairperson          |
| 2    | Educational Materials Production and Distribution Enterprise | Member               |
| 3    | Artistic Printing Enterprise                                 | Member               |
| 4    | Berhanena Selam Printing Enterprise                          | Member               |
| 5    | Yekatit Paper Converting Enterprise                          | Member               |
| 6    | Finfine Furniture Factory                                    | Member               |
| 7    | Small and midium manufacturing Industry Development Agency   | Member               |
| 8    | Ethiopian Standards Agency                                   | Member and Secretary |

### TC 4 Sector

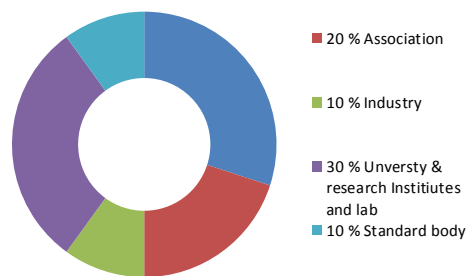


### TC 5 Management and Systems

**Scope:** Standardization in the fields of generic system of standardized scientific management focusing on quality, safety, health, environment, etc as well as related processes and services and generic supporting systems, including standards which provide guidance on the selection and use of these standards, the conformity assessment practices and systems' auditing.

| S No | Composition TC 5                                          | Status               |
|------|-----------------------------------------------------------|----------------------|
| 1    | Ministry of Trade and Industry                            | Chairperson          |
| 2    | Ethiopian Accreditation Office                            | Member               |
| 3    | Ethiopian Management Institute                            | Member               |
| 4    | Addis Ababa Chamber of Commerce and Sectoral Associations | Member               |
| 5    | National Metrology Institute                              | Member               |
| 6    | Ethiopian Conformity Assessment Enterprise                | Member               |
| 7    | Integrated Quality Solution PLC                           | Member               |
| 8    | Ethiopian Investment Commission                           | Member               |
| 9    | Ethiopian standards agency                                | Member and Secretary |

### TC 5 Sector

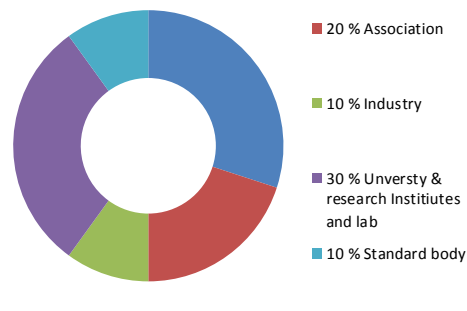


### TC 6 Packaging and distribution on goods

**Scope:** Standardization of packaging with regard to terminology and definitions, packaging dimensions, performance requirements and tests. Food packaging materials, including terminology, sampling procedures, test methods, product and quality specifications. Freight containers, having an external volume of one cubic meter and greater, regarding terminology, classification, dimensions, specifications, test methods and marking; Glass containers, cans, tins, tubes, cases, boxes and crates (containers for solid goods or objects like fiber board boxes) used as a means of packaging. Pallets in general used; and continuous mechanical handling equipment for loose bulk materials for unit loads, comprising terminology, general design and construction, leading dimensions, safety requirements and testing and inspection methods

| S No | Composition TC 6                                                | Status               |
|------|-----------------------------------------------------------------|----------------------|
| 1    | Ministry of Trade and Industry                                  | Chairperson          |
| 2    | Food and Medicine Control Authority                             | Member               |
| 3    | Ethiopian National Metrology Institute                          | Member               |
| 4    | Addis Ababa University (AAU) Food Science and Technology Center | Member               |
| 5    | Ethiopian Conformity Assessment Enterprise                      | Member               |
| 6    | Burayu Packaging and Printing Industry                          | Member               |
| 7    | Addis Ababa bottle and glass share company                      | Member               |
| 8    | Ethiopian Investment Commission                                 | Member               |
| 9    | Ethiopian Standards Agency                                      | Member and Secretary |

### TC 6 Sector

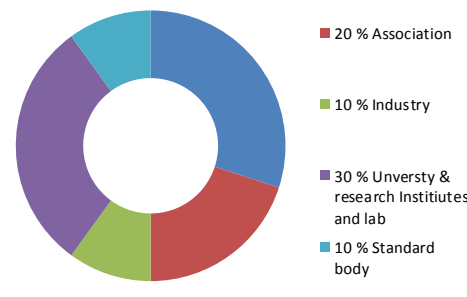


### TC 7 Ethiopic script

**Scope:** Standardization of Ethiopic character set definition and Ethiopic Latin transliteration system involving activities such as identification of Ethiopic writing systems; taking inventory of all syllable (alphabets) used in all the Ethiopian languages using the Ethiopic script; defining standard set of characters and defining a standard way of transliterating Ethiopic text in Latin alphabets.

| S No | Composition TC 7                                            | Status               |
|------|-------------------------------------------------------------|----------------------|
| 1    | Ministry of Education                                       | Chairperson          |
| 2    | Addis Ababa University (AAU)- Institute of Language Studies | Member               |
| 3    | Ministry of Culture and Tourism and Sport                   | Member               |
| 4    | Ministry of Innovation and Technology                       | Member               |
| 5    | Ethiopian Information Technology Professionals Association  | Member               |
| 6    | Berhanena Selam Printing Enterprise                         | Member               |
| 7    | Ethiopian writers association                               | Member               |
| 8    | Ethiopian Standards Agency                                  | Member and Secretary |

### TC 7 Sector

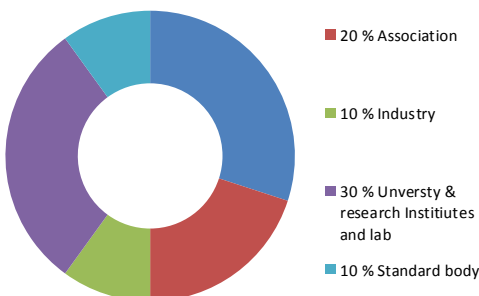


### TC 8 Information Technology

**Scope:** Standardization in the fields of information technology with regard to Coded character sets; Software engineering; Programming languages, their environments and systems software interfaces; Computer hardware; user interfaces (key boards and input interfaces user interface interaction and graphical symbols). Telecommunications and information exchange between systems, cards and personal identification, IT Security techniques, Office equipment (like fax, printer, copier and other system based equipments), coding of audio, picture, multimedia and hypermedia information, relevant ICT standards in the fields of multimedia (e.g.: MPEG), IC cards ("smart cards"), ICT security, database query and programming languages as well as character sets. In the field of banking, securities and other financial services, Securities and related financial instruments, Core banking.

| S No | Composition TC 8                                                                               | Status               |
|------|------------------------------------------------------------------------------------------------|----------------------|
| 1    | Ministry of Innovation and Technology                                                          | Chairperson          |
| 2    | Addis Ababa University (AAU)- Department of Information Science                                | Member               |
| 3    | Ethio Telecom                                                                                  | Member               |
| 4    | Geospatial information institute                                                               | Member               |
| 5    | Addis Ababa University - Institute of Technology, Electrical & Computer Engineering Department | Member               |
| 6    | Technology and Innovation Institute                                                            | Member               |
| 7    | National Bank of Ethiopia                                                                      | Member               |
| 8    | Switch Ethiopian PLC                                                                           | Member               |
| 9    | Premium Switch Solutions                                                                       | Member               |
| 10   | Custor Computing PLC                                                                           | Member               |
| 11   | Ethiopian Standards Agency                                                                     | Member and Secretary |

### TC 8 Sector



### TC 9 Graphic technology, graphical symbols, technical drawings, & photography

**Scope:** Standardization of terminology, test methods and specifications in the field of printing and graphic technology from the original provided to finished products. The scope includes in particular composition, reproduction, printing process, finishing (for example binding) and suitability of skins, substances and other materials used in graphic technology. Graphical symbols as well as of message that a symbol is intended to convey, example safety sign and establishing principles for preparation, coordination and application of graphical symbols, technical drawings in general, still picture imaging-chemical and electronic including ignitions for still imaging systems; methods for measuring, testing, rating, packing, labeling, specifying and classifying in chemical and electronic still imaging; methods, measurements, specifications, and security of imaging media and materials, and imaging materials disposition.Excluded:

Standardization of letters, numerals, punctuation marks, mathematical signs and symbols, and symbols for quantities and units.

| S NO | Composition TC 9                                         | Status               |
|------|----------------------------------------------------------|----------------------|
| 1    | Geospatial information institute                         | Chairperson          |
| 2    | Berhanena Selam Printing Enterprise                      | Member               |
| 3    | Radiation Protection Authority                           | Member               |
| 4    | Ministry of urban Development and and Construction       | Member               |
| 5    | Federal Transport Authority                              | Member               |
| 6    | Ethiopian Air ports Enterprise                           | Member               |
| 7    | Ministry of Labour and Social Affairs                    | Member               |
| 8    | Addis Ababa traffic police office road safety department | Member               |
| 9    | Addis Ababa fire and incident protection authority       | Member               |
| 10   | Ethiopian Standards Agency                               | Member and Secretary |

### TC 10 Hotels and tourism services

**Scope:** Standardization of terminology, requirements, and classification of hotels, catering and tourism services

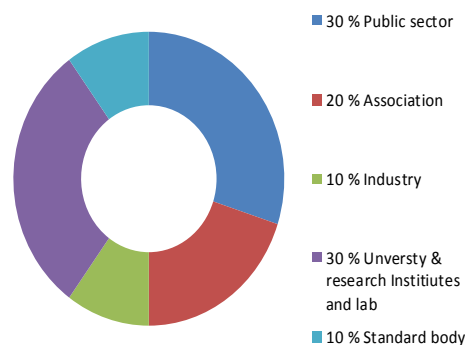
| S NO | Composition TC 10                                 | Status               |
|------|---------------------------------------------------|----------------------|
| 1    | Ministry of Culture , Tourism and sport           | Chairperson          |
| 2    | National Tour Operator (NTO)                      | Member               |
| 3    | Tour and Travel Agents Association                | Member               |
| 4    | Ethiopian Tourism and Catering Training Institute | Member               |
| 5    | Ethiopian Hotel Professionals Association         | Member               |
| 6    | Ethiopian Airline Enterprise                      | Member               |
| 7    | Ethiopian Food, and Medicine Control Authority    | Member               |
| 8    | Lion hotel and tourism training institute         | Member               |
| 9    | Ethiopian Tourism Organization                    | Member               |
| 10   | Ethiopian Wildlife Conservation Authority         | Member               |
| 11   | Authority for Conservation of Cultural Heritage   | Member               |
| 12   | EthiopianTourist Trading Enterprise               | Member               |
| 13   | Ethiopian Standards Agency                        | Member and Secretary |

### TC 11 Cereals, pulses and derived products

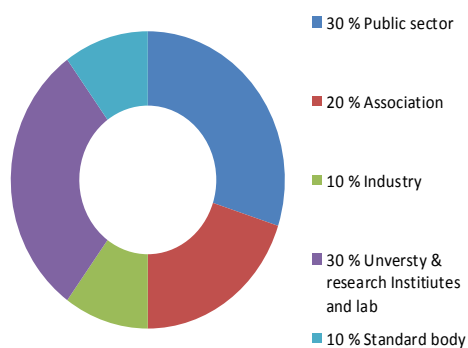
**Scope:** Standardization of cereals, legumes, pulses and other derived products with particular reference to terminology, specifications, codes of practice, method of sampling and testing, storage and handling.

| S NO | Composition TC 11                                    | Status               |
|------|------------------------------------------------------|----------------------|
| 1    | Ministry of Agriculture                              | Chairperson          |
| 2    | Ethiopian Institute of Agricultural Research         | Member               |
| 3    | Ethiopian Grain Trade Enterprise                     | Member               |
| 4    | Ethiopian Public Health Institute                    | Member               |
| 5    | Ethiopian Crop Science Society                       | Member               |
| 6    | Ethiopian Pulses and Oil Seeds Exporters Association | Member               |
| 7    | Ethiopian Food and Medicine Control Authority        | Member               |
| 8    | Ethiopian Conformity Assessment Enterprise           | Member               |
| 9    | Assela Malt Factory                                  | Member               |
| 10   | International Livestock research institute           |                      |
| 11   | Ethiopian Standards Agency                           | Member and Secretary |

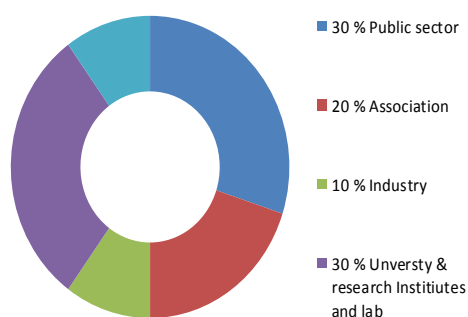
### TC 9 Sector



### TC 10 Sector



### TC 11 Sector

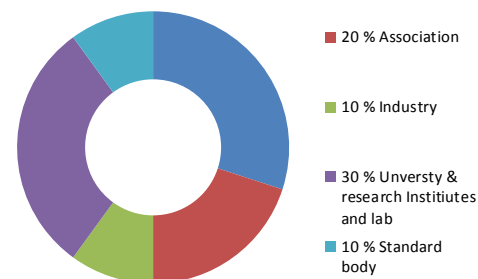


### TC 12 Oilseeds, oilseed residues and derived products

**Scope:** Standardization of oilseeds (such as Sesame, Niger seed, Groundnut etc), oilseed residues with particular reference to specifications, methods of packaging, sampling, testing and storage.

| S NO | Composition TC 12                                                 | Status               |
|------|-------------------------------------------------------------------|----------------------|
| 1    | Ministry of Agriculture                                           | Chairperson          |
| 2    | Ethiopian Institute of Agricultural Research                      | Member               |
| 3    | Ethiopian Crop Science Society                                    | Member               |
| 4    | Addis Modjo Edible Oil Complex S. Co.                             | Member               |
| 5    | Ethiopian Food and Medicine Control Authority                     | Member               |
| 6    | Ethiopia Oil Seeds and Pulses Exporters Association               | Member               |
| 7    | Ethiopian Conformity Assessment Enterprise                        | Member               |
| 8    | Ethiopian Public Health Institute                                 | Member               |
| 9    | Food, Beverage and Pharmaceuticals Industry Development Institute | Member               |
| 10   | Ethiopian Standards Agency                                        | Member and Secretary |

### TC 12 Sector

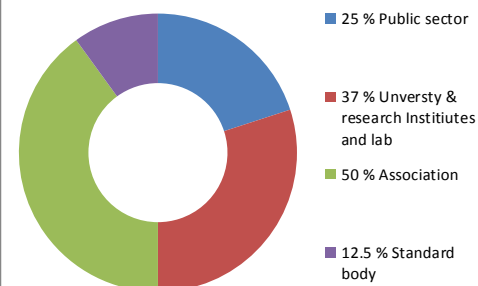


### TC 13 Fruits and vegetables

**Scope:** Standardization of terminology, specifications, codes of practice (rules for grading etc), storage, packaging, pesticide residues and transportation relating to fresh and processed fruits and vegetables including vegetable proteins

| S NO | Composition TC 13                                          | Status               |
|------|------------------------------------------------------------|----------------------|
| 1    | Ministry of Agriculture                                    | Chairperson          |
| 2    | Ethiopian Investment commission                            | Member               |
| 3    | Ethiopian Institute of Agricultural Research               | Member               |
| 4    | Upper Awash Agro Industry Enterprise                       | Member               |
| 5    | Ethiopian Horticulture Producers and Exporters Association | Member               |
| 6    | Ethiopian Food and Medicine Control Authority              | Member               |
| 7    | Ethiopian Conformity Assessment Enterprise                 | Member               |
| 8    | Bless Agrifood Service Laboratory PLC                      | Member               |
| 9    | Ethiopian Standards Agency                                 | Member and Secretary |

### TC 13 Sector

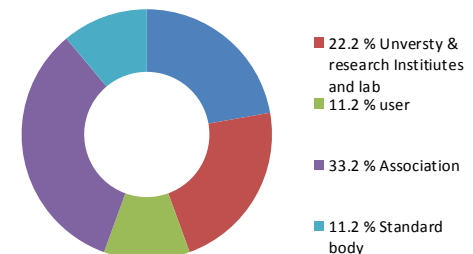


### TC 14 Spices and Condiments

**Scope:** Standardization of terminology, product specifications, grading, methods of sampling, testing, packaging in the field of spices and condiments.

| S NO | Composition TC 14                                    | Status               |
|------|------------------------------------------------------|----------------------|
| 1    | Ministry of Agriculture                              | Chairperson          |
| 2    | Ethiopian Institute of Agricultural Research         | Member               |
| 3    | Ethiopian Biodiversity Institute                     | Member               |
| 4    | Ethiopian Food and Medicine Control Authority        | Member               |
| 5    | Ethiopian Public Health Institute                    | Member               |
| 6    | Ethiopian Conformity Assessment Enterprise           | Member               |
| 7    | Ethiopian Spices Producers and Exporters Association | Member               |
| 8    | Ethiopian Standards Agency                           | Member and Secretary |

### TC 14 Sector

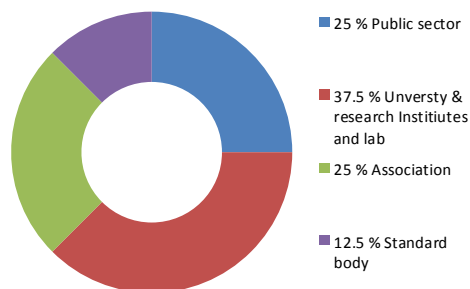


### TC 15 Fertilizer

**Scope:** Standardization in the field of fertilizers and soil conditioners, that is, materials whose addition is intended to ensure or improve the nourishment of cultivated plants and/or to improve the properties of soils.

| S NO | Composition TC 15                                | Status               |
|------|--------------------------------------------------|----------------------|
| 1    | Ministry of Agriculture                          | Chairperson          |
| 2    | Environment, Forest and Climate Change Comission | Member               |
| 3    | Ethiopian Institute of Agricultural Research     | Member               |
| 4    | Agricultural Inputs Supply Enterprise            | Member               |
| 5    | Chemical Society of Ethiopia                     | Member               |
| 6    | Ethiopian Conformity Assessment Enterprise       | Member               |
| 7    | Ethiopian Crop Science Society                   | Member               |
| 8    | Ethiopian Society of Soil Science                | Member               |
| 9    | Ethiopian Standards Agency                       | Member and Secretary |

### TC 15 Sector

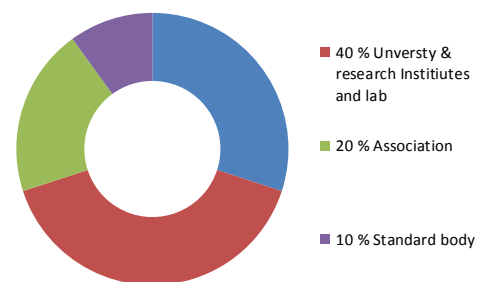


### TC 16 Seeds

**Scope:** Standardization of terminology, specifications, methods of sampling and testing, labeling seed containers, and procedures for certifying seed that are used for planting purposes.

| S NO | Composition TC 16                            | Status               |
|------|----------------------------------------------|----------------------|
| 1    | Ministry of Agriculture                      | Chairperson          |
| 2    | Ethiopian Institute of Agricultural Research | Member               |
| 3    | Ethiopian Biodiversity Institute             | Member               |
| 4    | Ethiopian Seed Enterprise                    | Member               |
| 5    | Ethiopian Conformity Assessment Enterprise   | Member               |
| 6    | Ethiopian Crop Science Society               | Member               |
| 7    | Haromaya University                          | Member               |
| 8    | International Livestock research institute   | Member               |
| 9    | Ethiopian Standards Agency                   | Member and Secretary |

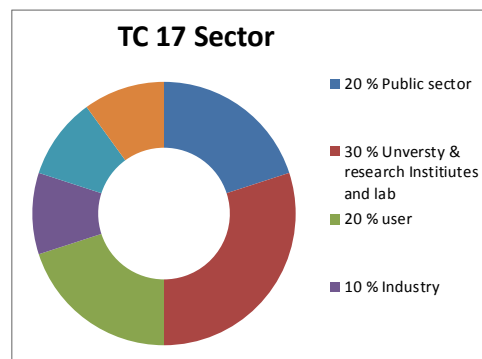
### TC 16 Sector



### TC 17 Fish and Fishery Products

**Scope:** Standardization of fresh, frozen (including quick-frozen) or otherwise processed fish, crustaceans and mollusks, shrimps and other aquatic products with particular reference to terminology, specification, methods of sampling and test, and packaging.

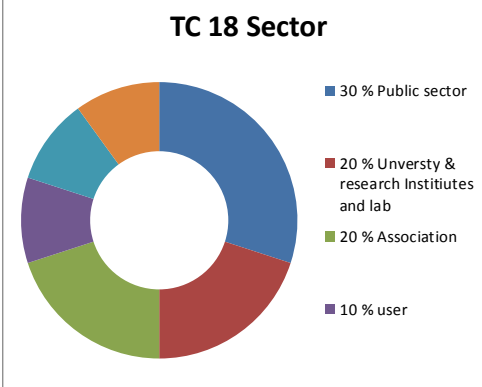
| S NO | Composition TC 17                                                                                    | Status               |
|------|------------------------------------------------------------------------------------------------------|----------------------|
| 1    | Ministry of Agriculture                                                                              | Chairperson          |
| 2    | Ethiopian Food and Medicine Control Authority                                                        | Member               |
| 3    | Ethiopian Public Health Institute                                                                    | Member               |
| 4    | Ethiopian Institute of Agricultural Research – National Fish and Other Aquatic Lives research Center | Member               |
| 5    | Ethiopian Conformity Assessment Enterprise                                                           | Member               |
| 6    | Addis Ababa University - Department of Fisheries and Aquatic science                                 | Member               |
| 7    | Aquaculture and Fisheries Producers Association                                                      | Member               |
| 8    | Ethiopian Society of Animal Production                                                               | Member               |
| 9    | Trade Competition and Consumers' Protection Authority                                                | Member               |
| 10   | International Livestock research institute                                                           | Member               |
| 11   | Ethiopian Standards Agency                                                                           | Member and Secretary |



### TC 18 Animal Feeding Stuff

**Scope:** Standardization of specification, codes of practice, sampling and testing, storage and packaging in the field of animal feeding stuffs including food safety such as problem related to toxic substances pathogens, microbial resistance.

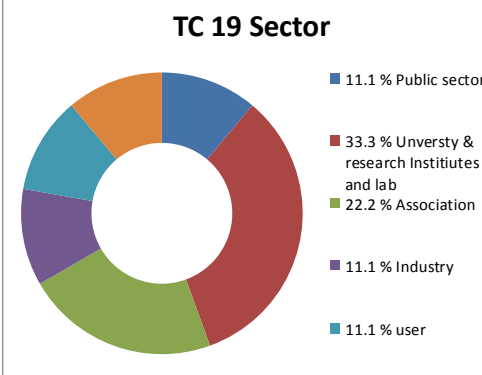
| S NO | Composition TC 18                                                              | Status               |
|------|--------------------------------------------------------------------------------|----------------------|
| 1    | Ministry of Agriculture                                                        | Chairperson          |
| 2    | Ethiopian Institute of Agricultural Research                                   | Member               |
| 3    | Addis Ababa University, Faculty of Veterinary Science                          | Member               |
| 4    | Kality Animal Feed Enterprise                                                  | Member               |
| 5    | ELFORA Agro Industry                                                           | Member               |
| 6    | Ethiopian Conformity Assessment Enterprise                                     | Member               |
| 7    | Ethiopian Animal Feed and Veterinary Drug Administration and Control Authority | Member               |
| 8    | Ethiopian Animal Feed Industry Association                                     | Member               |
| 9    | Bless Agrifood Service Laboratory PLC                                          | Member               |
| 10   | International Livestock research institute                                     | Member               |
| 11   | Ethiopian Standards Agency                                                     | Member and Secretary |



### TC 19 Pesticides

**Scope:** Standardization of specification, method of sampling and testing, code of practice for handling, storage, movement or transporting disposal, safety of protection materials relating to pesticides/fungicides, herbicides, insecticides, rodenticide, and fumigants.

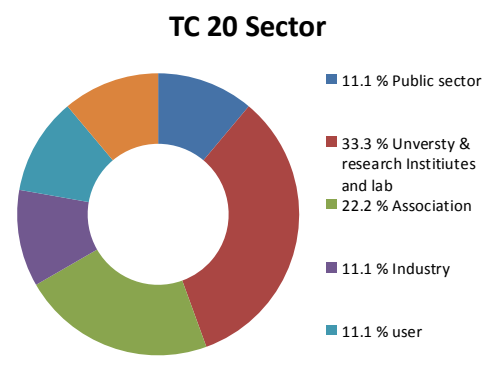
| S NO | Composition TC 19                                 | Status               |
|------|---------------------------------------------------|----------------------|
| 1    | Ministry of Agriculture                           | Chairperson          |
| 2    | Environment, Forest and Climate Change Commission | Member               |
| 3    | Ethiopian Institute of Agricultural Research      | Member               |
| 4    | Chemical Society of Ethiopia                      | Member               |
| 5    | Ethiopian Crop Protection Society                 | Member               |
| 6    | Adami Tulu Pesticide Processing S.C               | Member               |
| 7    | Agricultural Inputs Supply Enterprise             | Member               |
| 8    | Ethiopian Conformity Assessment Enterprise        | Member               |
| 9    | Ethiopian Standards Agency                        | Member and Secretary |



### TC 20 Artificial Inseminations for Cattle

**Scope:** Standardization of the technical, biological and veterinary requirements for frozen semen of breeding bulls, artificial insemination equipment, sampling, methods of handling and storage relating to artificial insemination for cattle.

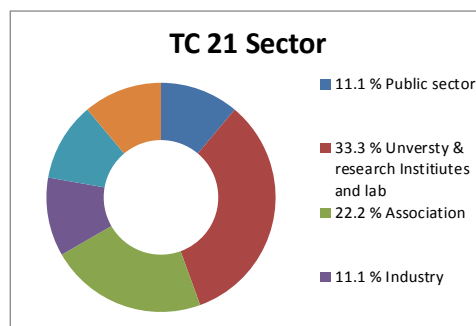
| S NO | Composition TC 20                                      | Status               |
|------|--------------------------------------------------------|----------------------|
| 1    | Ministry of Agriculture                                | Chairperson          |
| 2    | Addis Ababa University - Faculty of Veterinary Science | Member               |
| 3    | Ethiopian Institute of Agricultural Research           | Member               |
| 4    | Ethiopian Biodiversity Institute                       | Member               |
| 5    | Ethiopian Society of Animal Production                 | Member               |
| 6    | ELFORA Agro Industry                                   | Member               |
| 7    | Ethiopian Veterinary Association                       | Member               |
| 8    | Kality Artificial Insemination Center                  | Member               |
| 9    | Ethiopian Standards Agency                             | Member and Secretary |



**TC 21 Food Additives and Contaminants**

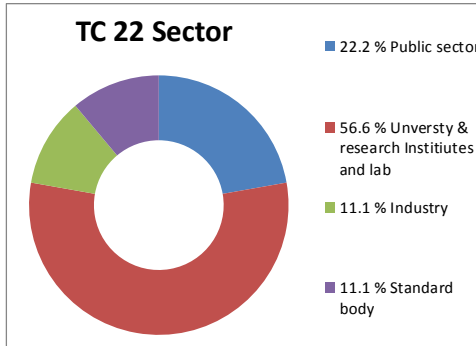
**Scope:** Standardization of food additives such as edible salt, with particular reference to terminology, specification, method of sampling and test terminology

| S NO | Composition TC 21                                                 | Status               |
|------|-------------------------------------------------------------------|----------------------|
| 1    | Ethiopian Food and Medicine Control Authority                     | Chairperson          |
| 2    | Ethiopian Public Health Institute                                 | Member               |
| 3    | Addis Ababa University - Center for Food Science and Nutrition    | Member               |
| 4    | Biological Society of Ethiopia                                    | Member               |
| 5    | Ethiopian Conformity Assessment Enterprise                        | Member               |
| 6    | Food, Beverage and Pharmaceuticals Industry Development Institute | Member               |
| 7    | Bless Agrifood Service Laboratory PLC                             | Member               |
| 8    | Trade Competition and Consumers' Protection Authority             | Member               |
| 9    | Ethiopian Standards Agency                                        | Member and Secretary |

**TC 22 Food Additives and Contaminants**

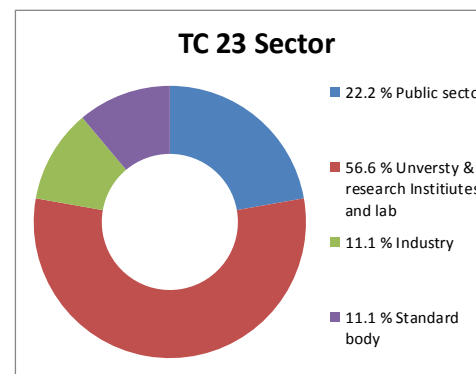
**Scope:**Standardization of sugars and all types of sugar products, confectioneries (such as candies, toffees, chocolates, etc) with particular reference to terminology, specification, method of sampling and testing.

| S NO | Composition TC 22                                                 | Status               |
|------|-------------------------------------------------------------------|----------------------|
| 1    | Ethiopian Sugar Corporation                                       | Chairperson          |
| 2    | Ethiopian Food and Medicine Control Authority                     | Member               |
| 3    | Wonji Showa Sugar Factory                                         | Member               |
| 4    | Ethiopia Conformity Assessment Enterprise                         | Member               |
| 5    | Trade Competition and Consumers' Protection Authority             | Member               |
| 6    | Addis Ababa University - Center for Food Science and Nutrition    | Member               |
| 7    | Food, Beverage and Pharmaceuticals Industry Development Institute | Member               |
| 8    | Fincha Sugar Factory                                              | Member               |
| 9    | Ethiopian Standards Agency                                        | Member and Secretary |

**TC 23 Fats and Oils**

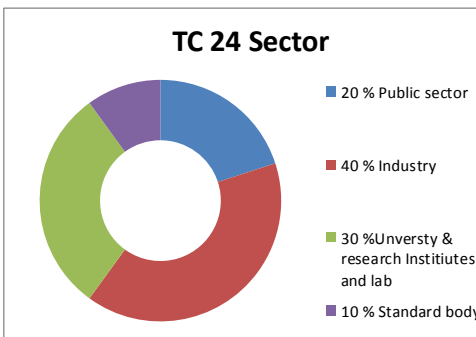
**Scope:** Standardization of fats and oils of animal, vegetable and marine origin including margarine and olive oil with particular reference to specification, method of sampling and test, terminology.

| S NO | Composition TC 23                                                 | Status               |
|------|-------------------------------------------------------------------|----------------------|
| 1    | Ethiopian Food and Medicine Control Authority                     | Chairperson          |
| 2    | Addis Ababa University - Center for Food Science and Nutrition    | Member               |
| 3    | Addis Modjo Edible Oil Complex S.Co.                              | Member               |
| 4    | Ethiopia Conformity Assessment Enterprise                         | Member               |
| 5    | Ethiopian Public Health Institute                                 | Member               |
| 6    | Food, Beverage and Pharmaceuticals Industry Development Institute | Member               |
| 7    | Bless Agri-food Service Laboratory PLC                            | Member               |
| 8    | Trade Competition and Consumers' Protection Authority             | Member               |
| 9    | Ethiopian Standards Agency                                        | Member and Secretary |

**TC 24 Starch and derived products**

**Scope :**Standardization of specification, method of sampling and test, rules for packaging relating to starch, flour and bread and other bakery products (Such as cakes, biscuits and the likes).

| S NO | Composition TC 24                                                 | Status               |
|------|-------------------------------------------------------------------|----------------------|
| 1    | Ethiopian Food and Medicine Control Authority                     | Chairperson          |
| 2    | Misrak Bread and Flour Mill Factory                               | Member               |
| 3    | NAS Foods PLC                                                     | Member               |
| 4    | Kalty Food Factory                                                | Member               |
| 5    | Ethiopia Conformity Assessment Enterprise                         | Member               |
| 6    | Ethiopian Public Health Institute                                 | Member               |
| 7    | FAFA Foods S.C                                                    | Member               |
| 8    | Food, Beverage and Pharmaceuticals Industry Development Institute | Member               |
| 9    | Trade Competition and Consumers' Protection Authority             | Member               |
| 10   | Ethiopian Standards Agency                                        | Member and Secretary |



### TC 25 Milk and Milk Products

**Scope:** Standardization of specification, code of practice, terminology, test methods, pesticide residues, packing and marking relating to milk and milk products such as cheese, yogurt, cream, butter etc.

| S NO | Composition TC 25                                                                | Status               |
|------|----------------------------------------------------------------------------------|----------------------|
| 1    | Ethiopian Food and Medicine Control Authority                                    | Chairperson          |
| 2    | Ethiopian Public Health Institute                                                | Member               |
| 3    | Ministry of Agriculture                                                          | Member               |
| 4    | Ethiopian Institute of Agricultural Research- Holeta Agriculture Research Center | Member               |
| 5    | Ethiopian Meat and Dairy Industry Development Institute                          | Member               |
| 6    | Ethiopia Conformity Assessment Enterprise                                        | Member               |
| 7    | Ethiopian Dairy Processors Association                                           | Member               |
| 8    | Bless Agri-food Service Laboratory PLC                                           | Member               |
| 9    | Trade Competition and Consumers' Protection Authority                            | Member               |
| 10   | International Livestock research institute                                       | Member               |
| 11   | Ethiopian Standards Agency                                                       | Member and Secretary |

#### S- TC 25 -1 dairy

Standardization of methods of analysis and sampling for milk and milk products, covering the dairy chain from primary production to consumption

### TC 26 Processed Meat and Poultry Products

**Scope:** Standardization of specification, codes of practice for the classification, description and grading of carcasses and cuts of beef, veal, mutton, lamb and pork, and poultry meat with particular reference to terminology, sampling methods, chemicals and physical test methods, pesticide residues, packing, packaging relating to meat and meat products.

| S NO | Composition TC 26                                       | Status               |
|------|---------------------------------------------------------|----------------------|
| 1    | Ethiopian Meat and Dairy Industry Development Institute | Chairperson          |
| 2    | Ministry of Agriculture                                 | Member               |
| 3    | ELFORA Agro Industries PLC                              | Member               |
| 4    | Addis Ababa Abattoirs Enterprise                        | Member               |
| 5    | Ethiopian Public Health Institute                       | Member               |
| 6    | Ethiopian Food and Medicine Control Authority           | Member               |
| 7    | Luna Export Slaughter House PLC                         | Member               |
| 8    | Trade Competition and Consumers' Protection Authority   | Member               |
| 9    | Ethiopian Veterinary Association                        | Member               |
| 10   | International Livestock research institute              | Member               |
| 11   | Ethiopian Standards Agency                              | Member and Secretary |

### TC 27 Non Alcoholic Beverages

**Scope :** Standardization of non-alcoholic beverages (such as soft drinks, natural and fortified mineral waters etc), and fruits juices with particular reference to specification, codes of hygienic practice, sampling methods, chemical, physical and organoleptic testing.

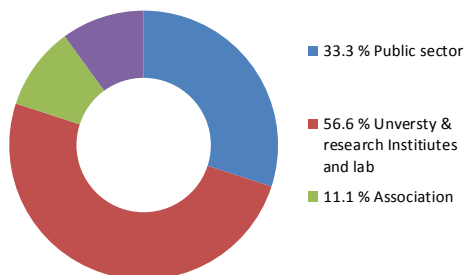
| S NO | Composition TC 27                                                 | Status               |
|------|-------------------------------------------------------------------|----------------------|
| 1    | Ethiopian Food and Medicine Control Authority                     | Chairperson          |
| 2    | Ethiopian Public Health Institute                                 | Member               |
| 3    | Moha Soft Drink Factory                                           | Member               |
| 4    | East African Bottling S.C                                         | Member               |
| 5    | Ambo Mineral Water Factory                                        | Member               |
| 6    | Ethiopia Conformity Assessment Enterprise                         | Member               |
| 7    | Upper Awash Agro Industry Enterprise                              | Member               |
| 8    | Food, beverage and Pharmaceuticals Industry Development Institute | Member               |
| 9    | Trade Competition and Consumers' Protection Authority             | Member               |
| 10   | Ethiopian Standards Agency                                        | Member and Secretary |

### TC 28 Alcoholic Beverages

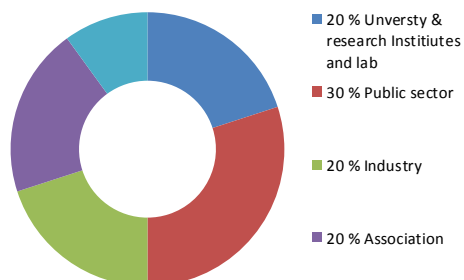
**Scope:** Standardization of alcoholic beverages (such as beer, spirits, liquors, etc) with particular reference to specification, codes of hygienic practice, sampling methods, chemical, physical and organoleptic test methods.

| S NO | Composition TC 28                                                 | Status               |
|------|-------------------------------------------------------------------|----------------------|
| 1    | Ethiopian Food and Medicine Control Authority                     | Chairperson          |
| 2    | BGI Ethiopia PLC                                                  | Member               |
| 3    | Diageo Brewery S.C                                                | Member               |
| 4    | Assela Malt Factory                                               | Member               |
| 5    | Chemical Society of Ethiopia                                      | Member               |
| 6    | Ethiopia Conformity Assessment Enterprise                         | Member               |
| 7    | Heineken Breweries S.C                                            | Member               |
| 8    | Food, Beverage and Pharmaceuticals Industry Development Institute | Member               |
| 9    | Trade Competition and Consumers' Protection Authority             | Member               |
| 10   | Ethiopian Standards Agency                                        | Member and Secretary |

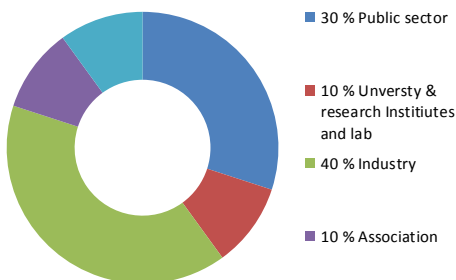
### TC 25 Sector



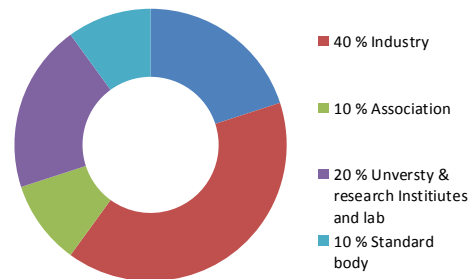
### TC 26 Sector



### TC 27 Sector



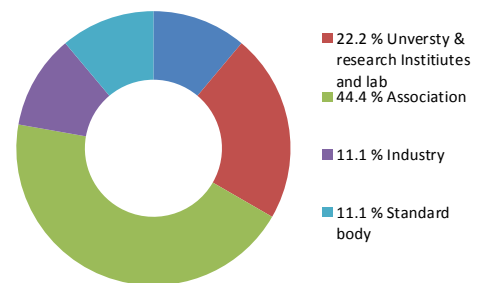
### TC 28 Sector



**TC 29 Coffee and Tea**

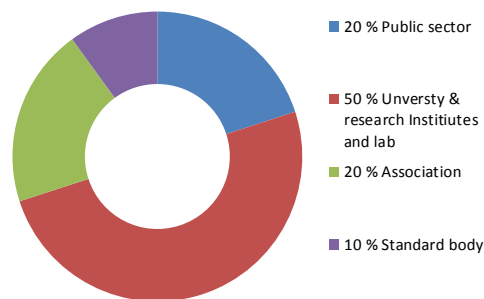
**Scope:** Standardization of specification, codes of practice on preparation, storage and transportation terminology, methods of sampling, physical, chemical and organoleptic test methods, packing, quality assessment, export classification, pesticide residues relating to coffee and tea.

| S NO | Composition TC 29                                                    | Status               |
|------|----------------------------------------------------------------------|----------------------|
| 1    | Coffee and Tea Authority                                             | Chairperson          |
| 2    | Ministry of Agriculture - Coffee Quality Testing Center              | Member               |
| 3    | Ethiopian Institute of Agricultural Research – Jimma Research Center | Member               |
| 4    | Coffee Exporters Association                                         | Member               |
| 5    | Ethiopian Food and Medicine Control Authority                        | Member               |
| 6    | Ethiopian Commodity Exchange (ECX)                                   | Member               |
| 7    | East Africa Group (Ethiopia) Ltd.                                    | Member               |
| 8    | Ethiopian Conformity Assessment Enterprise                           | Member               |
| 9    | Ethio-Agri CEFT PLC                                                  | Member               |
| 10   | Ethiopian Standards Agency                                           | Member and Secretary |

**TC 29 Sector****TC 30 Honey and Honey Products**

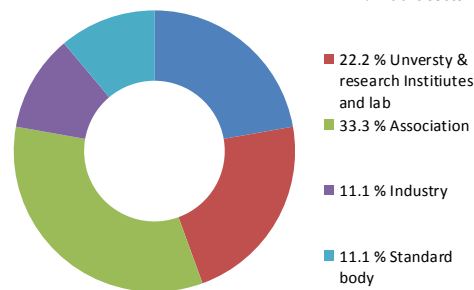
**Scope:** Standardization of specification, quality characteristics, code of practice, sampling and test methods of honey, honey products.

| S NO | Composition TC 30                                                     | Status               |
|------|-----------------------------------------------------------------------|----------------------|
| 1    | Ministry of Agriculture                                               | Chairperson          |
| 2    | Ethiopian Institute of Agricultural Research – Holeta Research Center | Member               |
| 3    | Ethiopian Meat and Dairy Industry Development Institute               | Member               |
| 4    | Ethiopian Food and Medicine Control Authority                         | Member               |
| 5    | Ethiopian Honey and Beeswax Producers and Exporters Association       | Member               |
| 6    | Ethiopian Conformity Assessment Enterprise                            | Member               |
| 7    | Mekelle University                                                    | Member               |
| 8    | Ethiopian Beekeepers Association (EBA)                                | Member               |
| 9    | Bless Agrifood Service Laboratory PLC                                 | Member               |
| 10   | Ethiopian Standards Agency                                            | Member and Secretary |

**TC 30 Sector****TC 31 Civet and Civet Farming**

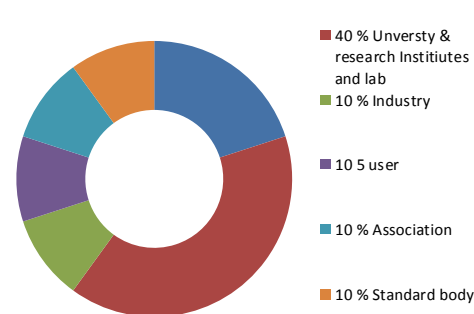
**Scope:** Standardization of specification, quality characteristics, sampling and test methods of civet, code of practice for civet farming.

| S NO | Composition TC 31                                          | Status               |
|------|------------------------------------------------------------|----------------------|
| 1    | Ethiopian Wild life Conservation and Development Authority | Chairperson          |
| 2    | Ethiopian Animal Health Research Center                    | Member               |
| 3    | Chemical Society of Ethiopia                               | Member               |
| 4    | Ethiopian Society of Animal Production                     | Member               |
| 5    | Ethiopian Conformity Assessment Enterprise                 | Member               |
| 6    | Ministry of Agriculture                                    | Member               |
| 7    | Ali Kalib Pvt. Ltd                                         | Member               |
| 8    | Society of Animal Welfare                                  | Member               |
| 9    | Ethiopian Standards Agency                                 | Member and Secretary |

**TC 31 Sector****TC 32 Baby Foods**

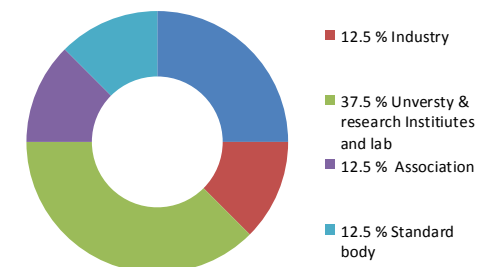
**Scope:** Standardization of baby foods with particular reference to specification, storage, method of sampling and testing, terminology, code of practice.

| S NO | Composition TC 32                                                 | Status               |
|------|-------------------------------------------------------------------|----------------------|
| 1    | Ethiopian Food and Medicine Control Authority                     | Chairperson          |
| 2    | Ethiopian Public Health Institute                                 | Member               |
| 3    | FAFA Foods S.C.                                                   | Member               |
| 4    | Addis Ababa University - Center for Food Science and Nutrition    | Member               |
| 5    | Ethiopian Conformity Assessment Enterprise                        | Member               |
| 6    | Hilma Enriched Foods PLC                                          | Member               |
| 7    | Food, Beverage and Pharmaceuticals Industry Development Institute | Member               |
| 8    | Trade Competition and Consumers' Protection Authority             | Member               |
| 9    | Ethiopian Enriched Food Manufacturers Association                 | Member               |
| 10   | Ethiopian Standards Agency                                        | Member and Secretary |

**TC 32 Sector****TC 33 Natural Gum**

**Scope:** Standardization of terminology, product specifications, grading, methods of sampling, testing, packaging in the field of natural gum.

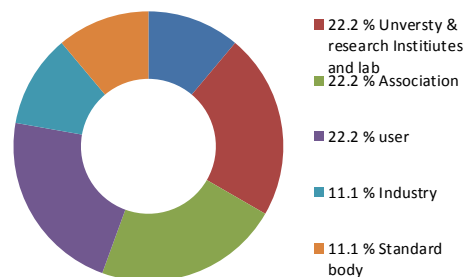
| S NO | Composition TC 33                                   | Status               |
|------|-----------------------------------------------------|----------------------|
| 1    | Environment, Forestry and Climate Change Commission | Chairperson          |
| 2    | Ministry of Agriculture                             | Member               |
| 3    | Natural Gum Processing & Marketing Enterprise       | Member               |
| 4    | Ethiopian Institute of Agricultural Research        | Member               |
| 5    | Hawassa University - Wondogent Forestry College     | Member               |
| 6    | Ethiopian Society of Forestry                       | Member               |
| 7    | Ethiopian Conformity Assessment Enterprise          | Member               |
| 8    | Ethiopian Standards Agency                          | Member and Secretary |

**TC 33 Sector**

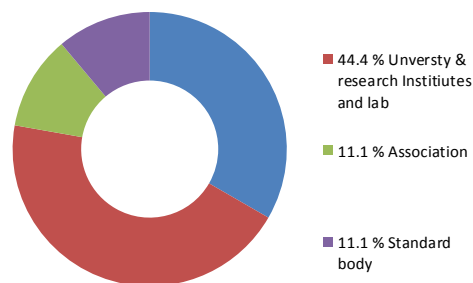


**TC 34 Live Animals****Scope:** Standardization of transporting, labeling, grading, sampling and test methods of live animals.

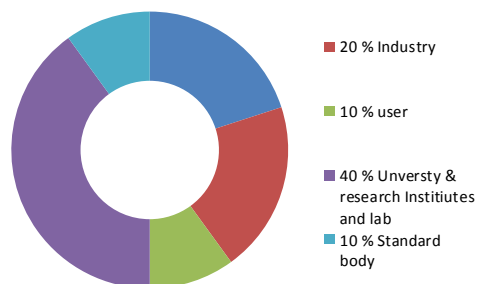
| S NO | Composition TC 34                                     | Status               |
|------|-------------------------------------------------------|----------------------|
| 1    | Ministry of Agriculture                               | Chairperson          |
| 2    | Addis Ababa University- Faculty of Veterinary Science | Member               |
| 3    | Ethiopian Society of Animal Production                | Member               |
| 4    | Addis Ababa Abattoirs Enterprise                      | Member               |
| 5    | ELFORA Agro Industry                                  | Member               |
| 6    | Ethiopian Institute of Agricultural Research          | Member               |
| 7    | Luna Slaughter House PLC                              | Member               |
| 8    | Organic Export Abattoir                               | Member               |
| 9    | Ethiopian Standards Agency                            | Member and Secretary |

**TC 34 Sector****TC 35 Cement, Lime and Gypsum****Scope:** Standardization of definitions, methods of test, specifications, classification, nomenclatures of various kinds of cement, lime & gypsum used in building construction and engineering in general.

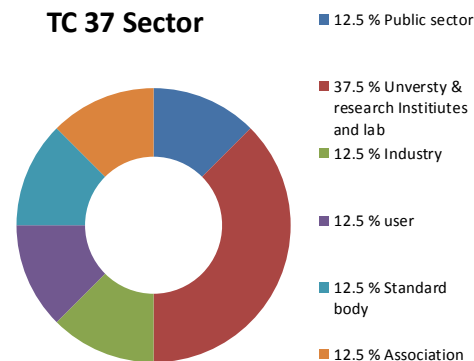
| S NO | Composition TC 35                                                    | Status               |
|------|----------------------------------------------------------------------|----------------------|
| 1    | Ministry of Urban development and Construction                       | Chairperson          |
| 2    | Chemical Industry Corporation                                        | Member               |
| 3    | Chemical and Construction Input Industry Development Institute       | Member               |
| 4    | Mugher Cement S.C                                                    | Member               |
| 5    | Derba Cement S.C                                                     |                      |
| 6    | Dangote Cement S.C                                                   |                      |
| 7    | Ethiopian Conformity Assessment Enterprise                           | Member               |
| 8    | Ethiopian Institute of Architecture and Building Construction(EiABC) | Member               |
| 9    | Construction Project Management Institute                            | Member               |
| 10   | Ethiopian Standards Agency                                           | Member and Secretary |

**TC 35 Sector****TC 36 Concrete & concrete products****Scope:** Standardization of including definitions, test methods, specifications, classification, nomenclatures of various kinds Concrete & concrete products.

| S NO | Composition TC 36                                                              | Status               |
|------|--------------------------------------------------------------------------------|----------------------|
| 1    | Ministry of Urban development and Construction                                 | Chairperson          |
| 2    | Prefabricated Building Parts production Enterprise                             | Member               |
| 3    | MIDROC Ethiopia                                                                | Member               |
| 4    | Kaliti Block Manufacturing Enterprise                                          | Member               |
| 5    | Ethiopian Institute of Architecture and Building Construction(EiABC)           | Member               |
| 6    | Addis Ababa University Institute of Technology Department of Civil Engineering | Member               |
| 7    | Ethiopian Conformity Assessment Enterprise                                     | Member               |
| 8    | Ethiopian Road Authority                                                       | Member               |
| 9    | Construction Project Management Institute                                      | Member               |
| 10   | Ethiopian Standards Agency                                                     | Member and Secretary |

**TC 36 Sector****TC 37 Ceramic, terracotta building materials, and glass****Scope:** Standardization of definitions, test methods, specifications, classification, nomenclatures of various kinds of tiles for floor covering, and all ceramic and other materials used in wall facings and building decorations; performance requirements, dimensional properties, method of calculations and rules for various types of glasses used in building construction.

| S NO | Composition TC 37                                                              | Status               |
|------|--------------------------------------------------------------------------------|----------------------|
| 1    | Ministry of Urban development and Construction                                 | Chairperson          |
| 2    | Addis Ababa university Institute of Technology Department of Civil Engineering | Member               |
| 3    | Construction Project Management Institute                                      | Member               |
| 4    | Addis Ababa Bottle and Glass S.C                                               | Member               |
| 5    | Ethiopian Institute of Architecture, Building Construction (EiABC)             | Member               |
| 6    | Ethiopian Conformity Assessment Enterprise                                     | Member               |
| 7    | Chemical and Construction Input Industry Development Institute                 | Member               |
| 8    | Ethiopian Standards Agency                                                     | Member and Secretary |

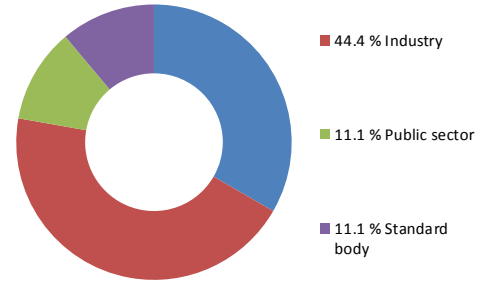
**TC 37 Sector**

### TC 38 Galvanized Steel Sheets, Nails and Wires & Structural Steels

**Scope:** Standardization of definitions, test methods and specifications of iron and steel products such as galvanized or non galvanized sheet metals, wire rods, nails, wires, structural steels, windows and door frames, steel profiles, used in building, road and bridge construction.

| S NO | Composition TC 38                                                              | Status               |
|------|--------------------------------------------------------------------------------|----------------------|
| 1    | Metals Industry Development Institute                                          | Chairperson          |
| 2    | Akaki Steel Factory                                                            | Member               |
| 3    | Addis Ababa University Institute of Technology Department of Civil Engineering | Member               |
| 4    | Ethiopian Metal and Engineering Corporation                                    | Member               |
| 5    | Ethiopian Steel PLC                                                            | Member               |
| 6    | Kality Metal Products Factory                                                  | Member               |
| 7    | Ethiopian Conformity Assessment Enterprise                                     | Member               |
| 8    | Ministry of urban Development and and Construction                             | Member               |
| 9    | Ethiopian Standards Agency                                                     | Member and Secretary |

### TC 38 Sector

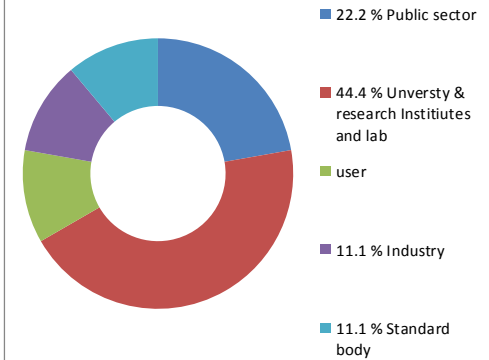


### TC 39 Binders, Sealing materials, and Insulating materials

**Scope:** Standardization of definitions, test methods and specifications of binders, sealants and insulating materials used for building construction

| S NO | Composition TC39                                                               | Status               |
|------|--------------------------------------------------------------------------------|----------------------|
| 1    | Addis Ababa University Institute of Technology Department of Civil Engineering | Chairperson          |
| 2    | F.D.R.E Metal & Engineering Corporation Ethiopian Plastic Industry             | Member               |
| 3    | Chemical Society of Ethiopia                                                   | Member               |
| 4    | Nefassilk Paint Factory                                                        | Member               |
| 5    | Ethiopian Society of Chemical Engineers                                        | Member               |
| 6    | Ethiopian Institute of Architecture and Building Construction (EiABC)          | Member               |
| 7    | Ethiopian Conformity Assessment Enterprise                                     | Member               |
| 8    | Chemical and Construction Input Industry Development Institute                 | Member               |
| 9    | Ministry of urban Development and Construction                                 | Member               |
| 10   | Ethiopian Standards Agency                                                     | Member and Secretary |

### TC 39 Sector

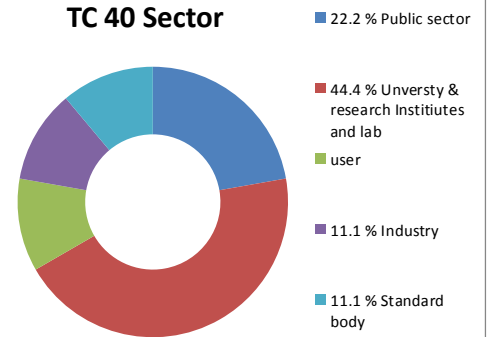


### TC 40 Masonry units

**Scope:** Standardization of definitions, test methods and specifications of bricks, concrete blocks, stones and earth blocks used in building, road and bridge construction.

| S NO | Composition TC 40                                                    | Status               |
|------|----------------------------------------------------------------------|----------------------|
| 1    | Ministry of Urban development and Construction                       | Chairperson          |
| 2    | Ethiopian Institute of Architecture and Building Construction(EiABC) | Member               |
| 3    | Prefabricated Building Parts production Enterprise                   | Member               |
| 4    | Selam Technical Vocational Center                                    | Member               |
| 5    | Ethiopian Roads Authority                                            | Member               |
| 6    | Ethiopian Earthen Construction Technology Institute                  | Member               |
| 7    | Addis Brick Factory                                                  | Member               |
| 8    | Ethiopian Conformity Assessment Enterprise                           | Member               |
| 9    | Ethiopian Standards Agency                                           | Member and Secretary |

### TC 40 Sector

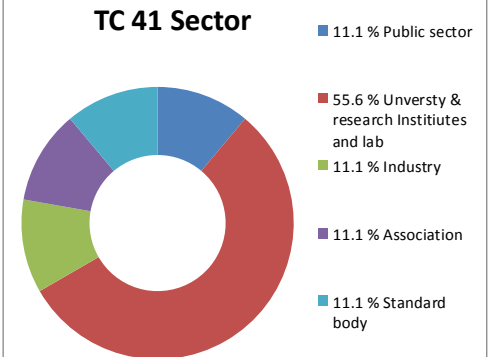


### TC 41 Doors, windows and shutter

**Scope:** Standardization in the field of doors, door sets, windows and shutters including manufactured from any suitable materials covering specific requirements, terminology, dimensions, and methods of test.

| S NO | Composition TC 41                                                              | Status               |
|------|--------------------------------------------------------------------------------|----------------------|
| 1    | Ministry of Urban development and Construction                                 | Chairperson          |
| 2    | Ethiopian Metals Industry Development Institute                                | Member               |
| 3    | Construction Project Management Institute                                      | Member               |
| 4    | Kality Metal Products Factory                                                  | Member               |
| 5    | B and C Aluminum PLC                                                           | Member               |
| 6    | Addis Ababa University Institute of Technology Department of Civil Engineering | Member               |
| 7    | Ethiopian Institute of Architecture and Building Construction (EiABC)          | Member               |
| 8    | Ethiopian Conformity Assessment Enterprise                                     | Member               |
| 9    | Ethiopian Standards Agency                                                     | Member and Secretary |

### TC 41 Sector



### TC 42 Building structures and elements of building

**Scope:** Standardization of- General terminology for building and civil engineering  
 - Organization of information in the process of design, manufacture and construction  
 - General geometric & performance requirements for building, building elements and components including modular coordination and its basic principles, general rules for joints, tolerances and fits  
 - Bases for design of structures irrespective of the material of construction including especial terminology and symbols, load, forces and other actions and limitations of deformations. Consideration and coordination of basic reliability requirements concerning the structures and a hole, including consideration of structures made of particular materials (steel, stone, concrete wood etc)  
 - Design of load bearing structures of timber, wood products composing technical requirements for design, for materials and for the work of construction necessary to safeguard the design assumptions,  
 - Structural use of steel and alloys of aluminum as applied in building, civil engineering and related structures.  
 - Rules for design and execution of unreinforced and reinforced masonry building constructions and appropriate test methods

| S NO | Composition TC 42                                                              | Status               |
|------|--------------------------------------------------------------------------------|----------------------|
| 1    | Ministry of urban Development and and Construction                             | Chairperson          |
| 2    | Addis Ababa University Institute of Technology Department of Civil Engineering | Member               |
| 3    | Ethiopian Institute of Architecture and Building Construction(EiABC)           | Member               |
| 4    | Ethiopian Civil Engineers Association                                          | Member               |
| 5    | Ethiopian Consulting Engineers and Architects Association                      | Member               |
| 6    | Construction Design S.C                                                        | Member               |
| 7    | Ethiopian Conformity Assessment Enterprise                                     | Member               |
| 8    | F.D.R.E Metal and engineering Corporation                                      | Member               |
| 9    | Kality Metal Producing Factory                                                 | Member               |
| 10   | Ethiopian Standards Agency                                                     | Member and Secretary |

### TC 43 Installation, lighting, accessories, Internal finishing & protection of building

**Scope:** Standardization in buildings for ventilation and air conditioning gas supply systems, electric supply systems including electric energy meters, water supply systems including water supply meters, water heating equipment, external water conveyance system, sanitary installations.

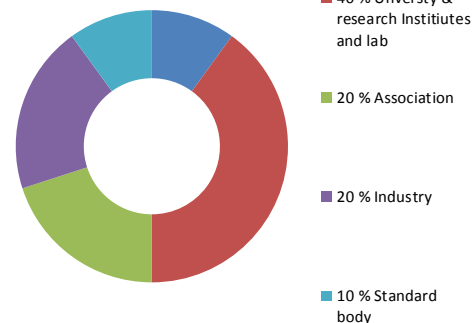
| S NO | Composition TC 43                                                                                | Status               |
|------|--------------------------------------------------------------------------------------------------|----------------------|
| 1    | Ministry of urban Development and and Construction                                               | Chairperson          |
| 2    | Addis Ababa University Institute of Technology Department of Civil Engineering                   | Member               |
| 3    | DAN Techno craft                                                                                 | Member               |
| 4    | Ethiopian Electric Power                                                                         | Member               |
| 5    | Ethiopian Electric utility                                                                       | Member               |
| 6    | Ethiopian Consulting Engineers and Architects association                                        | Member               |
| 7    | Addis Ababa University Institute of Technology-Department of Electrical and Computer Engineering | Member               |
| 8    | Ethiopian Society of Mechanical Engineers                                                        | Member               |
| 9    | Ethiopian Institute of Architecture and Building Construction (EiABC)                            | Member               |
| 10   | Geological Survey                                                                                |                      |
| 11   | Ethiopian Standards Agency                                                                       | Member and Secretary |

### TC 44 Earth work excavations, foundation, construction and earth moving machineries

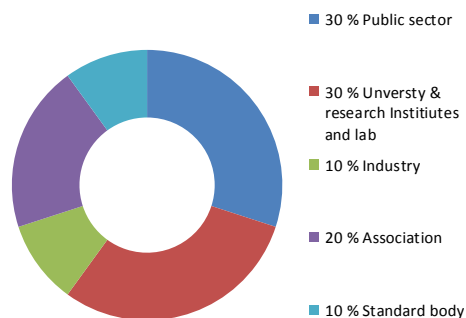
**Scope:** Standardization of requirements for earth works, earth retaining structures, ground anchorage, structural design of foundation, geo-technical work, foundation safety including nomenclature, use classification, ratings, technical requirements, test methods, safety requirements.

| S NO | Composition TC 44                                                                | Status               |
|------|----------------------------------------------------------------------------------|----------------------|
| 1    | Ministry of urban Development and and Construction                               | Chairperson          |
| 2    | Addis Ababa University Institute of Technology – Department of Civil Engineering | Member               |
| 3    | Construction Design S.C.                                                         | Member               |
| 4    | Association of Ethiopian Civil Engineers                                         | Member               |
| 5    | Transport Construction Design S. Co.                                             | Member               |
| 6    | Addis Ababa City Road Authority(AACRA)                                           | Member               |
| 7    | Defense Construction Enterprise                                                  | Member               |
| 8    | Construction Project management institute                                        | Member               |
| 9    | Ethiopian Standards Agency                                                       | Member and Secretary |

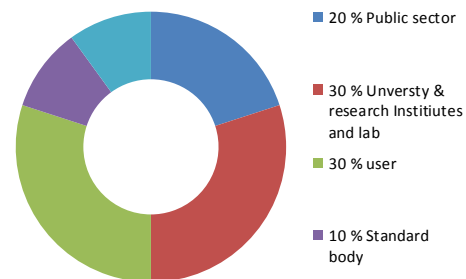
### TC 42 Sector



### TC 43 Sector



### TC 44 Sector

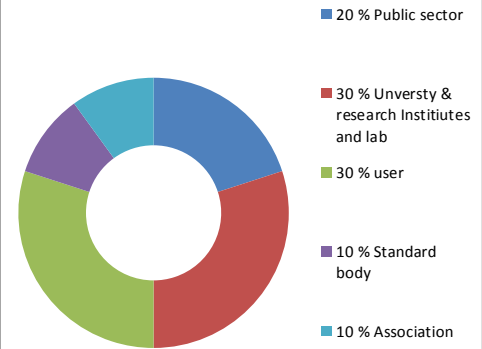


### TC 45 Road and bridge construction engineering

**Scope:** Standardization of requirements for road construction including road maintenance equipment, road construction materials including asphalts, road pavements, safety requirements in roads and bridges.

| S NO | Composition TC 45                                                              | Status               |
|------|--------------------------------------------------------------------------------|----------------------|
| 1    | Ethiopian Road Authority (ERA)                                                 | Chairperson          |
| 2    | Addis Ababa University Institute of Technology-Department of Civil Engineering | Member               |
| 3    | Ethiopian road fund office                                                     | Member               |
| 4    | Ministry of Housing, Urban Development                                         | Member               |
| 5    | Ethiopian Metals and Engineering Corporation                                   | Member               |
| 6    | Addis Ababa University Science and technology University                       | Member               |
| 7    | Construction Project management institute                                      | Member               |
| 8    | Core Consulting Engineers                                                      | Member               |
| 9    | Net Consulting Engineers and Architects                                        | Member               |
| 10   | Defense Construction Enterprise                                                | Member               |
| 10   | Ethiopian Standards Agency                                                     | Member and Secretary |

### TC 45 Sector

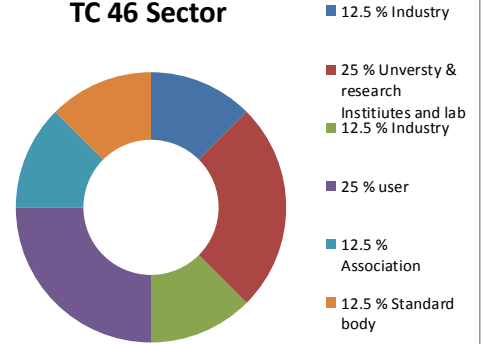


### TC 46 Mechanical system and components

**Scope:** Standardization of Mechanical system and components which lay down Characteristics and design of screw threads, fastener, stud, nuts ,rolling bear, plain bearing and including their technical requirements.

| S NO | Composition TC 46                                                                    | Status               |
|------|--------------------------------------------------------------------------------------|----------------------|
| 1    | METEC- Bishoftu Automotive Industry                                                  | Chairperson          |
| 2    | Addis Ababa University -Institute of Technology-Department of Mechanical Engineering | Member               |
| 3    | METEC-Akaki Basic Metals Industry                                                    | Member               |
| 4    | Ethiopian Metals Industry Development Institute                                      | Member               |
| 5    | Automotive Manufacturing Company of Ethiopia (AMCE)                                  | Member               |
| 6    | Mesfin Industrial Engineering PLC                                                    | Member               |
| 7    | Ethiopian Society of Mechanical Engineers                                            | Member               |
| 8    | Ethiopian Standards Agency                                                           | Member and Secretary |

### TC 46 Sector

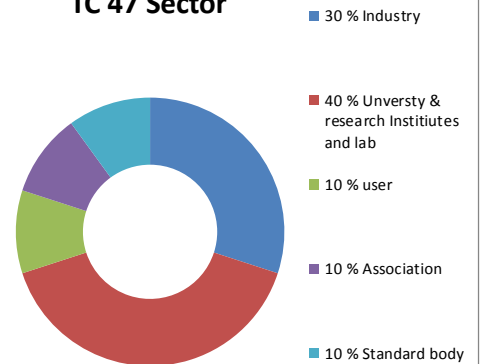


### TC 47 Mechanical testing of metals

**Scope:** Standardization of methods for mechanical testing, including the verification and Calibration of equipment that are used to determine the properties of metallic materials.

| S NO | Composition TC 47                                                                    | Status               |
|------|--------------------------------------------------------------------------------------|----------------------|
| 1    | METEC-Quality Management Center                                                      | Chairperson          |
| 2    | Addis Ababa University -Institute of Technology-Department of Mechanical Engineering | Member               |
| 3    | Mesfin Industrial Engineering PLC                                                    | Member               |
| 4    | Zequala Steel Rolling Mill                                                           | Member               |
| 5    | Ethiopian Steel P.L.C                                                                | Member               |
| 6    | Ethiopia Conformity Assessment Enterprise                                            | Member               |
| 7    | Ethiopian Metals and Industry Development Institute                                  | Member               |
| 8    | National Metrology Institute                                                         | Member               |
| 9    | Automotive Manufacturing Company of Ethiopia (AMCE)                                  | Member               |
| 10   | Ethiopian Standards Agency                                                           | Member and Secretary |

### TC 47 Sector

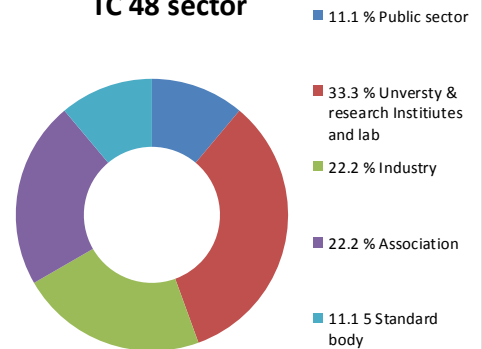


### TC 48 Fluid systems and heat transfer engineering

**Scope:** Standardization in the field of flexible metallic tubes and metallic fittings, flanges, pipe supports, Steel tubes, cast iron pipes, Boilers and pressure vessels, including design, construction and material Requirements for Refrigerating systems and heat pumps .

| S NO | Composition TC 48                                                                    | Status               |
|------|--------------------------------------------------------------------------------------|----------------------|
| 1    | Ethiopian Water Works Construction Enterprise                                        | Chairperson          |
| 2    | Addis Ababa University -Institute of Technology-Department of Mechanical Engineering | Member               |
| 3    | Kality Metal Products Factory                                                        | Member               |
| 4    | Ethiopian Society of Mechanical Engineers                                            | Member               |
| 5    | Hagbes P.L.C                                                                         | Member               |
| 6    | Ethiopia Conformity Assessment Enterprise                                            | Member               |
| 7    | Ethiopian Metals Industry Development Institute                                      | Member               |
| 8    | Ethiopian Metals and Engineering Corporation                                         | Member               |
| 9    | Ethiopian Standards Agency                                                           | Member and Secretary |

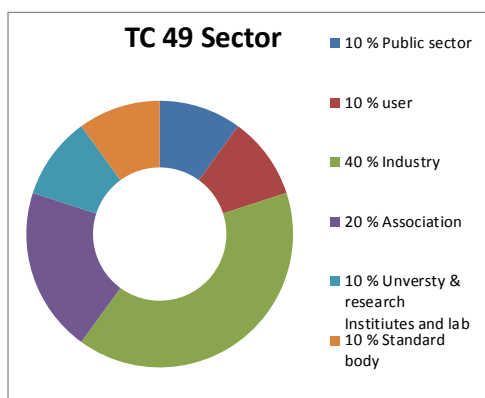
### TC 48 sector



**TC 49 Manufacturing engineering**

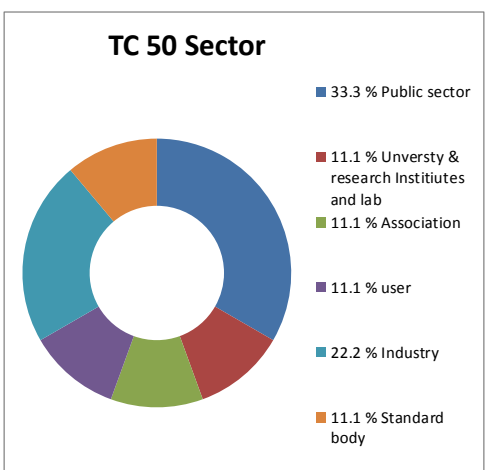
**Scope:** Standardization of Hand-held assembly tools, electric tools and pneumatic tools; all machine tools for the working of metal, wood and plastics, operating by removal of material or by pressure.

| S NO | Composition TC 49                                   | Status               |
|------|-----------------------------------------------------|----------------------|
| 1    | Ministry of Industry and Trade                      | Chairperson          |
| 2    | Automotive Manufacturing Company of Ethiopia (AMCE) | Member               |
| 3    | METEC- Akaki Basic Metals Industry                  | Member               |
| 4    | Ethiopian Manufacturing Industry Association        | Member               |
| 5    | Ethiopian Society of Mechanical Engineers           | Member               |
| 6    | Mesfin Industrial Engineering P.L.C.                | Member               |
| 7    | Ethiopian Conformity Assessment Enterprise          | Member               |
| 8    | STEEL RMI                                           | Member               |
| 9    | Zequala Steel Rolling Mill                          | Member               |
| 10   | Ethiopian Standards Agency                          | Member and Secretary |

**TC 50 Tractors, machinery for agriculture and forestry and mechanical handling equipment**

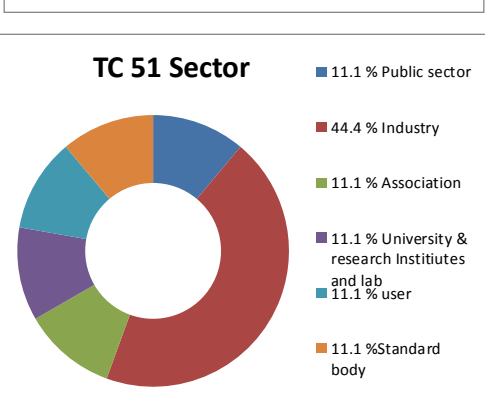
**Scope:** Standardization of Tractors, machines, systems, implements and their equipment used in agriculture and forestry.

| S NO | Composition TC 50                                                                    | Status               |
|------|--------------------------------------------------------------------------------------|----------------------|
| 1    | Ministry of Agriculture                                                              | Chairperson          |
| 2    | Addis Ababa University -Institute of Technology-Department of Mechanical Engineering | Member               |
| 3    | Ethiopian Society of Mechanical Engineers                                            | Member               |
| 4    | Agricultural Equipments and Technical Service Enterprise                             | Member               |
| 5    | METEC -Adama Agricultural Equipment Industry                                         | Member               |
| 6    | Techtra Engineering P.L.C.                                                           | Member               |
| 7    | Ministry of Urban Development and Housing                                            | Member               |
| 8    | Ministry of Water Irregation and Electricity                                         | Member               |
| 9    | Ethiopian Standards Agency                                                           | Member and Secretary |

**TC 51 Ferrous metals**

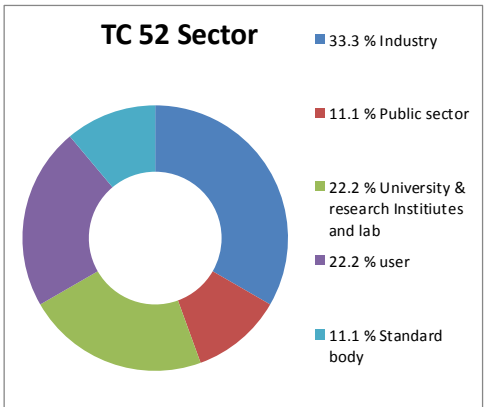
**Scope:** standardization in the field of-Cast, wrought and cold-formed steel, including technical delivery conditions for steel; all types of cast iron and all types of pig iron; Ferroalloys and other alloying additives used in iron-and steel making.

| S NO | Composition TC 51                                                                    | Status               |
|------|--------------------------------------------------------------------------------------|----------------------|
| 1    | Ethiopian Metals Industry Development Institute                                      | Chairperson          |
| 2    | Zequala Steel Rolling Mill                                                           | Member               |
| 3    | Automotive Manufacturing Company of Ethiopia (AMCE)                                  | Member               |
| 4    | Ethiopian Society of Mechanical Engineers                                            | Member               |
| 5    | Addis Ababa University -Institute of Technology-Department of Mechanical Engineering | Member               |
| 6    | METEC-Akaki Basic metals industry                                                    | Member               |
| 7    | Kality Metal Products Factory                                                        | Member               |
| 8    | Steel RMI                                                                            | Member               |
| 9    | Ethiopian Standards Agency                                                           | Member and Secretary |

**TC 52 Non-ferrous metals**

**Scope:** standardization in the field of Light metals and their alloys (i.e. aluminum magnesium, titanium and their alloys).

| S NO | Composition TC 52                                                                    | Status               |
|------|--------------------------------------------------------------------------------------|----------------------|
| 1    | METEC- Akaki Basic Metals Industry                                                   | Chairperson          |
| 2    | Ministry of Mines,Petroleum and Natural Gas                                          | Member               |
| 3    | Kolffe Household Utensils                                                            | Member               |
| 4    | Addis Abeba University -Institute of Technology-Department of Mechanical Engineering | Member               |
| 5    | Aluminum Works PLC / B&C or Enter Africa                                             | Member               |
| 6    | Ethiopian Metals Industry Development Institute                                      | Member               |
| 7    | Steel RMI                                                                            | Member               |
| 8    | Automotive Manufacturing Company of Ethiopia (AMCE)                                  | Member               |
| 9    | Ethiopian Standards Agency                                                           | Member and Secretary |

**TC 53 Metallic utensils and miscellaneous home equipment**

**TC 53 Metallic utensils and miscellaneous home equipment**

**Scope:** The standard covers standardization of all types of household utensils, and materials for household and office use such as razor blades, hand-sewing needles, scissors, and shavers (manual).

| S NO | Composition TC 51                                                                    | Status               |
|------|--------------------------------------------------------------------------------------|----------------------|
| 1    | Addis Ababa University -Institute of Technology-Department of Mechanical Engineering | Member               |
| 2    | Koffie Household Utensils                                                            | Member               |
| 3    | METEC-Akaki Basic Metals Industry                                                    | Member               |
| 4    | Ethiopian Metals Industry Development Institute                                      | Member               |
| 5    | Ethiopian Conformity Assessment Enterprise                                           | Member               |
| 6    | Ethiopian Standards Agency                                                           | Member and Secretary |

**TC 54 Road vehicles and industrial trucks**

**Scope:** The standard covers standardization of all questions concerning compatibility, interchangeability and safety, with particular reference to terminology and test procedures (including the characteristics of instrumentation) for evaluating the performance of moped, motor cycles, motor vehicles, trailers, semi-trailers, light trailers, Combination vehicles, articulated vehicles and their equipment.

| S NO | Composition TC 52                                                                    | Status               |
|------|--------------------------------------------------------------------------------------|----------------------|
| 1    | Federal Transport Authority                                                          | Chairperson          |
| 2    | Ministry of Urban Development and Housing                                            | Member               |
| 3    | Addis Ababa University -Institute of Technology-Department of Mechanical Engineering | Member               |
| 4    | Automotive Manufacturing Company of Ethiopia (AMCE)                                  | Member               |
| 5    | METEC- Bishoftu Automotive industry                                                  | Member               |
| 6    | Ethiopian Roads Authority                                                            | Member               |
| 7    | Mesfin Industrial Engineering P.L.C.                                                 | Member               |
| 8    | Lifan motors Automotive company                                                      | Member               |
| 9    | Nyala Motors                                                                         | Member               |
| 10   | Ethiopian Standards Agency                                                           | Member and Secretary |

**TC 55 Paints and varnishes**

**Scope:** Standardization in the fields of paints varnishes and related products (binders, pigments and extenders) including raw materials, surface preparation methods and protective paint systems.

| S NO | Composition TC 52                          | Status               |
|------|--------------------------------------------|----------------------|
| 1    | Ministry of Industry and Trade             | Chairperson          |
| 2    | AAU, Department of Chemistry               | Member               |
| 3    | Chemical Society of Ethiopia               | Member               |
| 4    | Ethiopian Consumers Protection Association | Member               |
| 5    | Kadisco Chemical Industry                  | Member               |
| 6    | Nefas Silk Paint S. Co.                    | Member               |
| 7    | Dil Paint Factory                          | Member               |
| 8    | Alkid Resin S.C                            | Member               |
| 9    | Ethiopian Standards Agency                 | Member and Secretary |

**TC 56 Pyrotechnics and explosives**

**Scope:** Standardization in the fields of pyrotechnics (matches, fireworks, powders) and explosives used for civilian purposes.

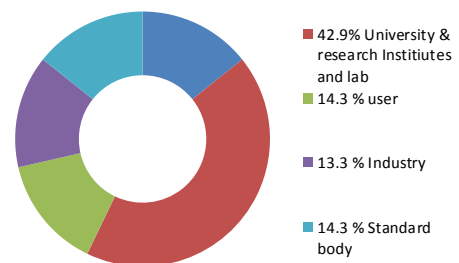
| S NO | Composition TC 52                            | Status               |
|------|----------------------------------------------|----------------------|
| 1    | Environmental Protection Authority           | Chairperson          |
| 2    | Ethiopian Road Authority                     | Member               |
| 3    | AAU, Department of Chemistry                 | Member               |
| 4    | MIDROC Ethiopia                              | Member               |
| 5    | Ethiopian Consumers Protection Authority     | Member               |
| 6.   | Akaki Matches Factory                        | Member               |
| 7    | Ethiopian Conformity Assessment Enterprise   | Member               |
| 8    | Ethiopian Metals and Engineering Corporation | Member               |
| 9    | Ministry of Mining                           | Member               |
| 10   | Ethiopian Standards Agency                   | Member and Secretary |

**TC 57 Surface active agents**

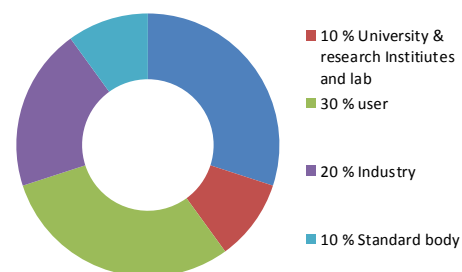
**Scope:** Standardization of classification, terminology, sampling, physical, chemical or other test methods, specification of surface active agents with or without conventional components of soap and detergent formulations

| S NO | Composition TC 52                          | Status               |
|------|--------------------------------------------|----------------------|
| 1    | Ethiopian Conformity Assessment Enterprise | Chairperson          |
| 2    | Ethiopian Consumers Protection Association | Member               |
| 3    | Ministry of Industry and Trade             | Member               |
| 4    | Beakas Chemicals PLC.                      | Member               |
| 5    | Repi Soap Factory                          | Member               |
| 6    | Zway Caustic Soda S.Co.                    | Member               |
| 7    | Abijata Soda Ash S.C                       | Member               |
| 8    | Star Soap Factory                          | Member               |
| 9    | Chemical Society of Ethiopia               | Member               |
| 10   | Ethiopian Standards Agency                 | Member and Secretary |

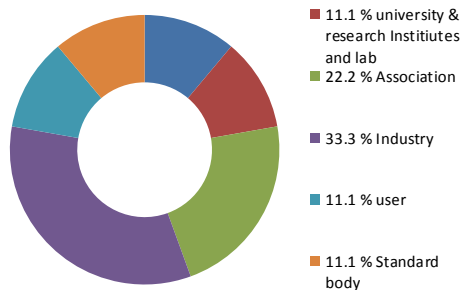
**TC 53 Sector**



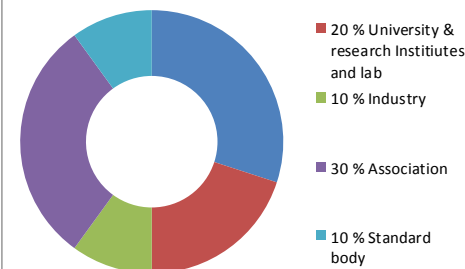
**TC 54 sector**



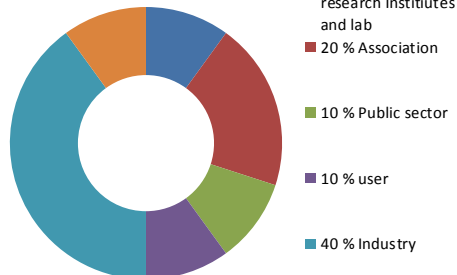
**TC 55 Sector**



**TC 56 Sector**



**TC 57 Sector**



**TC 58 Rubber and Plastics**

**Scope:** Standardization of terms and definitions, test methods, nomenclature and specifications for rubber and plastic in any form, rubber products, plastic products (including their dimensional tolerance) and major rubber and plastic compounding ingredients.

| S NO | Composition TC 52                                              | Status               |
|------|----------------------------------------------------------------|----------------------|
| 1    | Ministry of Industry and Trade                                 | Chairperson          |
| 2    | AAU-Institute of Technology Department of Chemical Engineering | Member               |
| 3    | Excel Plastic PLC                                              | Member               |
| 4    | MA Thermoplastics and Melamine PLC.                            | Member               |
| 5    | Chemical Society of Ethiopia                                   | Member               |
| 6    | MATADOR Addis Tyre S. C.                                       | Member               |
| 7    | Trade Competition and Consumers' Protection Authority          | Member               |
| 8    | Ethiopian Conformity Assessment Enterprise                     | Member               |
| 9.   | Ethiopian Metals and Engineering Corporation                   | Member               |
| 10.  | Ethiopian Standards Agency                                     | Member and Secretary |

**TC 59 Petroleum products and related Technologies**

**Scope:** Standardization of methods of measurements sampling and test, terminology and specification for petroleum, petroleum and non-petroleum fuels, lubricant, hydraulic fluids and related products.

| S NO | Composition TC 59                                     | Status               |
|------|-------------------------------------------------------|----------------------|
| 1    | Ministry of Water and Energy                          | Chairperson          |
| 2    | AAU-Institute of Technology Department of Chemical    | Member               |
| 3    | Oil Libiya                                            | Member               |
| 4    | Chemical society of Ethiopia                          | Member               |
| 5    | National Oil Company                                  | Member               |
| 6    | Trade Competition and Consumers' Protection Authority | Member               |
| 7    | Ethiopian Petroleum Enterprise                        | Member               |
| 8    | Ethiopian Conformity Assessment Enterprise            | Member               |
| 9    | Ethiopian Standards Agency                            | Member and Secretary |

**TC 60 Chemistry**

**Scope:** Standardization in the field of the chemical industry in general, particularly the basic chemical products the use of which is current in widely different industries, and which have not been covered by any of the other technical committees .

| 1  | Ministry of Industry and Trade                         | Chairperson          |
|----|--------------------------------------------------------|----------------------|
| 2  | Addis Ababa University, Department of Chemistry        | Member               |
| 3  | Bekas Chemicals PLC.                                   | Member               |
| 4  | Ethiopian Leather Industries Development Institute     | Member               |
| 5  | Chemical Society of Ethiopia                           | Member               |
| 6  | Awash Melkasa Aluminum Sulfate and Sulphuric Acid S. C | Member               |
| 7  | Zway Caustic Soda S. Co.                               | Member               |
| 8  | Ethiopian Society of Chemical Engineering              | Member               |
| 9  | Ethiopian Conformity Assessment Enterprise             | Member               |
| 10 | Ethiopian Standards Agency                             | Member and Secretary |

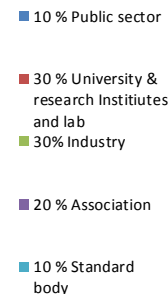
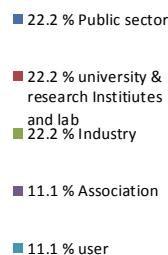
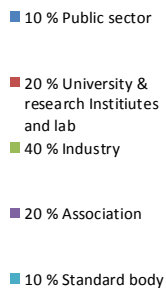
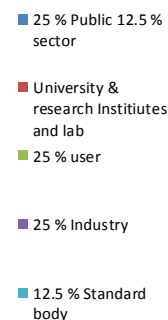
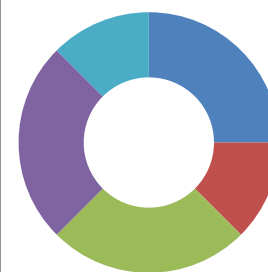
**TC 61 Electrical accessories**

**Scope:** To prepare standards for electrical accessories for household and home and building electronic systems and similar purposes.

| 1 | Ethiopian Energy Authority                                                                         | Chairperson          |
|---|----------------------------------------------------------------------------------------------------|----------------------|
| 2 | Addis Ababa University -Institute of Technology –Department of Electrical and Computer Engineering | Member               |
| 3 | Ethiopian Electric utility                                                                         | Member               |
| 4 | Ethiopian Electric Power                                                                           | Member               |
| 5 | Ministry of innovation and technology                                                              | Member               |
| 6 | METEC-Hi-Tech Engineering Industry                                                                 | Member               |
| 7 | Ethio Telecom                                                                                      | Member               |
| 8 | Ethiopian Standards Agency                                                                         | Member and Secretary |

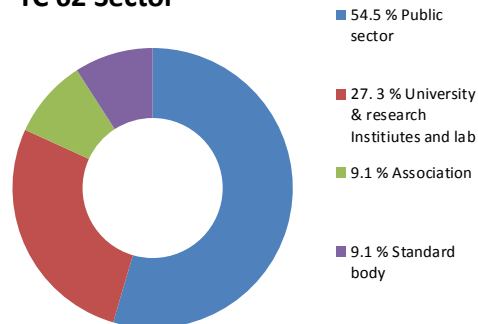
**SC 61- Lamp and related equipment**

To prepare international standards regarding specifications for:  
a) lamps (including LED's) and glow starters,  
b) lamp caps and holders,  
c) lamp controlgear,  
d) luminaires,  
e) miscellaneous related equipment not covered by a project of another technical committee.

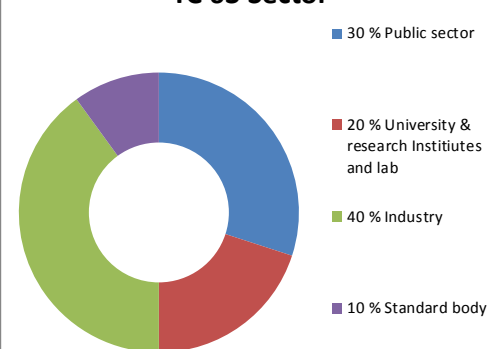
**TC 58 Sector****TC 59 Sector****TC 60 Sector****TC 61 Sector**

|                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                    |                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------|
| <b>TC 62</b>                                                                                                                                                                                                                                                                                                                                                                                                           | Electrical power supply systems and machines                                                       |                      |
| <b>Scope:</b> Standardization of Electrical engineering in general; rotating machinery and components, transformers.                                                                                                                                                                                                                                                                                                   |                                                                                                    |                      |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                      | Ethiopian Energy Authority                                                                         | Chairperson          |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                      | Addis Ababa University -Institute of Technology –Department of Electrical and Computer Engineering | Member               |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                      | Ethiopian Electric utility                                                                         | Member               |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                      | METEC-Hi- Tech Engineering Industry                                                                | Member               |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                      | Ministry of Innovation and Technology                                                              | Member               |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                      | Ethiopian Electric Power                                                                           | Member               |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                      | Ministry of Water and irrigation                                                                   | Member               |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                      | Ethiopian Conformity Assessment Enterprise                                                         | Member               |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                      | Ethiopian Society of Mechanical Engineers                                                          | Member               |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                     | Trade Competition and Consumers’ Protection Authority                                              | Member               |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                     | Ethiopian Standards Agency                                                                         | Member and Secretary |
| <b>TC 63 Electrical materials and conductors</b>                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                    |                      |
| <b>Scope:</b> The standard covers standardization of electrical materials and conductors in general such as cables,bus bars, wires, magnetic materials; semi conducting materials; and insulation materials; etc.                                                                                                                                                                                                      |                                                                                                    |                      |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                      | Ethiopian Energy Authority                                                                         | Chairperson          |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                      | Ethiopian Electric utility                                                                         | Member               |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                      | Ethiopian Electric Power                                                                           | Member               |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                      | Addis Ababa University -Institute of Technology- Department of Electrical and Computer Engineering | Member               |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                      | Ethiopian Power Engineering Industry (METEC)                                                       | Member               |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                      | Ethiopian Conformity Assessment Enterprise                                                         | Member               |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                      | Euro cable P.L.C                                                                                   | Member               |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                      | BMET P.L.C                                                                                         | Member               |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                      | BELAY AB Cabel                                                                                     | Member               |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                     | Ethiopian Standards Agency                                                                         | Member and Secretary |
| <b>SC 63-</b>                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Overhead electric conductors</b>                                                                |                      |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                    |                      |
| To                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                    |                      |
| <b>SC 63-</b>                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Cables, wires,waveguides. RF connectors, RF and microwave passive</b>                           |                      |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                    |                      |
| Standardization of metallic conductors, wires, waveguide, RF connectors, RF and microwave passive components and accessories for analogue and digital transmission systems and equipment for communication networks and cabling.                                                                                                                                                                                       |                                                                                                    |                      |
| <b>SC 63-</b>                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Coaxial cables</b>                                                                              |                      |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                    |                      |
| Standardization of coaxial cables and cable assemblies for analogue and digital transmission systems. Currently these are for general purpose and R.F. cables of rigid, semi-rigid and flexible construction used on transmission lines, cabled distibution and other similar systems.                                                                                                                                 |                                                                                                    |                      |
| <b>SC 63-</b>                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Wires and Symmetric cables</b>                                                                  |                      |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                    |                      |
| Standardization of ymmetric cable pairs and quads for analogue and digital transmission systems and equipment for communication and signalling. These standards may include the following:<br>- general cable construction, electrical characteristics, transmission characteristics, mechanical characteristics, environmental characteristics, related test methods and requirements, quality assessment procedures. |                                                                                                    |                      |
| <b>SC 63-</b>                                                                                                                                                                                                                                                                                                                                                                                                          | <b>High Voltage Direct Current (HVDC) transmission for DC voltages above 100 kV</b>                |                      |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                    |                      |
| Standardization in the field of HVDC Transmission technology above 100kV.                                                                                                                                                                                                                                                                                                                                              |                                                                                                    |                      |
| <b>SC 63-</b>                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Low Voltage Direct Current and Low Voltage Direct Current for Electricity Access</b>            |                      |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                    |                      |
| Standardization in the field of Low Voltage Direct Current (hereinafter referred to as LVDC) in order to provide systems level standardization, coordination and guidance in the areas of LVDC and LVDC for Electricity Access.                                                                                                                                                                                        |                                                                                                    |                      |

## TC 62 Sector



## TC 63 Sector





**TC 64 Electronics**

**Scope:** To prepare international standards regarding systems, equipment and their components for electronic power conversion and electronic power switching, including the means for their control, protection, monitoring and measurement.

|    |                                                                                                    |                      |
|----|----------------------------------------------------------------------------------------------------|----------------------|
| 1  | Addis Ababa University -Institute of Technology -Department of Electrical and Computer Engineering | Chairperson          |
| 2  | Ministry of Innovation and Technology                                                              | Member               |
| 3  | Ethio Telecom                                                                                      | Member               |
| 4  | Ethiopian Electric Power Corporation                                                               | Member               |
| 5  | SNAP Computer                                                                                      | Member               |
| 6  | METEC-Hi-Tech Engineering Industry                                                                 | Member               |
| 7  | LG Company                                                                                         | Member               |
| 8  | SONY Company                                                                                       | Member               |
| 9  | SAMSUNG Company                                                                                    | Member               |
| 10 | Ethiopian Standards Agency                                                                         | Member and Secretary |

**SC 64- Power electronic systems and equipment**

Standardization of design, manufacturing and testing of electronic assemblies including the requirements and tests for materials and components used to manufacture circuit boards and electronic assemblies, as well as the formats of electronic data and libraries for describing these products and processes.

**SC 64- Semiconductor devices**

Standardization in the field of semiconductors

**SC 64- Electronics assembly Technology**

To prepare international standards on design, manufacturing and testing of electronic assemblies including the requirements and tests for materials and components used to manufacture circuit boards and electronic assemblies, as well as the formats of electronic data and libraries for describing these products and processes.

**SC 64- Electronic display devices**

Standardization, in the field of electronic display devices and specific relevant components, of terms and definitions, letter symbols, essential ratings and characteristics, measuring methods, specifications for quality assurance and related test methods, and reliability.

**SC 64- Printed electronics**

Standardization of terminology, materials, processes, equipments, products and health/safety/environment in the field of printed electronics

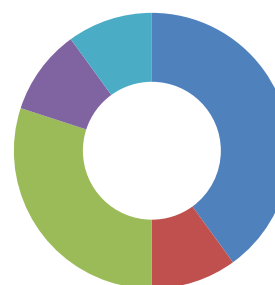
**TC 65 Telecommunications**

**Scope:** The standard covers standardization of wire and wireless communications in general, including telecommunication systems such as telephone systems and telegraph communication, data communication networks, computer systems, micro wave and satellite communication, components and accessories for communication equipment (such as coaxial cables, fiber optics, wave guides, wire and symmetric cables and RF connectors).

|    |                                                                                                    |                      |
|----|----------------------------------------------------------------------------------------------------|----------------------|
| 1  | Ministry of Innovation and Technology                                                              | Chairperson          |
| 2  | Ethiopian Society of Electrical Engineers                                                          | Member               |
| 3  | Ethio Telecom                                                                                      | Member               |
| 4  | Addis Ababa University -Institute of Technology- Department of Electrical and Computer Engineering | Member               |
| 5  | Ethiopian Broad Cast Authority                                                                     | Member               |
| 6  | Euro Cable P.L.C                                                                                   | Member               |
| 7  | BELAY AB CABEL P.L.C                                                                               | Member               |
| 8  | BMET P.L.C                                                                                         | Member               |
| 9  | INSA (Intelligence of National security Agency)                                                    | Member               |
| 10 | Ethiopian Standards Agency                                                                         | Member and Secretary |

**TC 64 Sector**

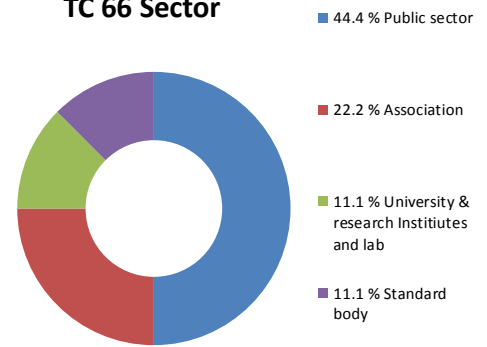
- 10 % University & research Institutes and lab
- 30 % Public sector
- 10 % user
- 40 % Industry
- 10 % Standard body

**TC 65 Sector**

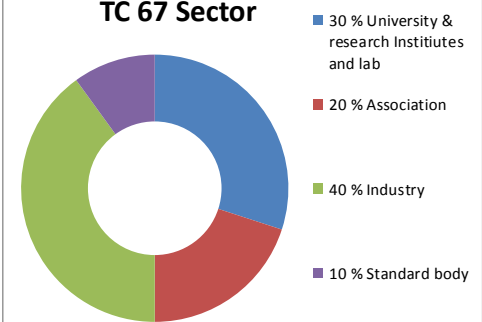
- 40 % Public sector
- 10 % Association
- 30 % Industry
- 10 % University & research Institutes and lab
- 10 % Standard body

**TC 66 Electrical Installation****Scope:** Standardization in the fields of electrical installation in building.

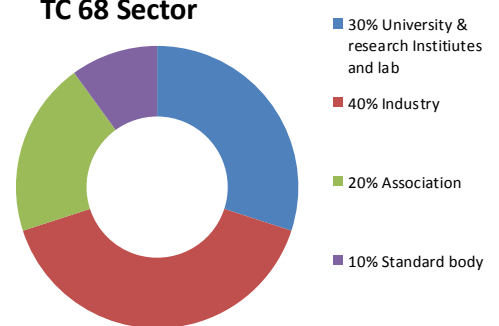
|    |                                                                                            |                      |
|----|--------------------------------------------------------------------------------------------|----------------------|
| 1  | Ethiopian Energy Authority                                                                 | Chairperson          |
| 2  | Ministry of Urban Development and Construction                                             | Member               |
| 3  | Ethiopian Electric Power                                                                   | Member               |
| 4  | Ethiopian Society of Electrical Engineers                                                  | Member               |
| 5  | Addis Ababa University -Institute of Technology- Department of Elec.& Computer Engineering | Member               |
| 6  | Ethiopian Consumers Protection Association                                                 | Member               |
| 7. | Ethiopian Electric Utility                                                                 | Member               |
| 8  | Federal Micro and small business enterprise Agency                                         | Member               |
| 9  | Ethiopian Standards Agency                                                                 | Member and Secretary |

**TC 66 Sector****TC 67 Textile Fibers****Scope:** Standardization of terminology, sampling, grading, labeling and marking, codes of practice, test methods and specifications for all types of natural and manmade textile fibers.

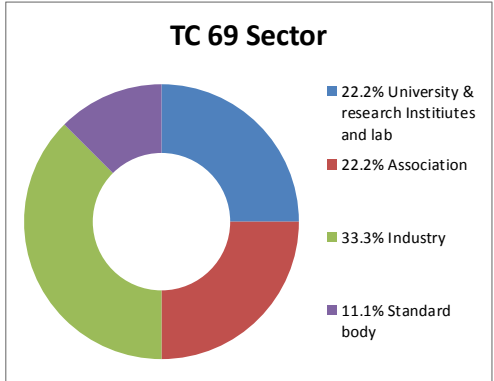
|    |                                                                            |                   |
|----|----------------------------------------------------------------------------|-------------------|
| 1  | Ethiopian Textile Industry Development Institute                           | Chairperson       |
| 2  | Ethiopian Institute of Textile and Fashion Technology Bahir Dar University | Member            |
| 3  | Ethiopian Cotton Producers, Ginners and Exporters Association              | Member            |
| 4  | Asura International Business Consultancy PLC                               | Member            |
| 5  | Wollo University(Kombolcha Textile Engineering)                            | Member            |
| 6  | Ethiopian Textile and Garment Manufacturers Association                    | Member            |
| 7  | Adama Spinning Factory                                                     | Member            |
| 8  | Ethiopian Agricultural Research Institute                                  | Member            |
| 9  | Gebresekam Ginning PLC                                                     | Member            |
| 10 | Bahirdar Textile S.C                                                       | Member            |
| 11 | Ethiopian Conformity Assessment Enterprise                                 | Member            |
| 12 | Ethiopian Standards Agency                                                 | Member& Secretary |

**TC 67 Sector****TC 68 Textile Yarns****Scope:** Standardization on terminology, sampling, grading, labeling and marking, codes of practice, test methods and specifications for all types of yarns and related machineries and equipment used for production and testing of yarns.

|    |                                                                            |                   |
|----|----------------------------------------------------------------------------|-------------------|
| 1  | Ethiopian Textile Industry Development Institute                           | Chairperson       |
| 2  | Ethiopian Institute of Textile and Fashion Technology Bahir Dar University | Member            |
| 3  | Ediget Yarn and Sewing Thread S.C                                          | Member            |
| 4  | Bahirdar Textile S.C                                                       | Member            |
| 5  | Asura International Business Consultancy PLC                               | Member            |
| 6  | Adama Spinning Factory                                                     | Member            |
| 7  | Wollo University(Kombolcha Textile Engineering)                            | Member            |
| 8  | Ethiopian Cotton Producers, Ginners and Exporters Association              | Member            |
| 9  | Ethiopian Textile and Garment Manufacturers Association                    | Member            |
| 10 | Kombolcha Textile S. C                                                     | Member            |
| 11 | Ethiopian Conformity Assessment Enterprise                                 | Member            |
| 12 | Ethiopian Standards Agency                                                 | Member& Secretary |

**TC 68 Sector****TC 69 Sewing and Embroidery Threads****Scope:** Standardization on terminology, sampling, grading, packaging, labeling and marking, code of practice, test methods and specifications for textile sewing and embroidery threads and related machineries and equipment used for production and testing of threads.

|    |                                                                             |                   |
|----|-----------------------------------------------------------------------------|-------------------|
| 1  | Ethiopian Textile Industry Development Institute                            | Chairperson       |
| 2  | Ethiopian Institute of Textile and Fashion Technology Bahir Dar University  | Member            |
| 3  | Ethiopian Textile and Garment Manufacturers Association                     | Member            |
| 4  | Edget Yarn and Sewing Thread Manufacturing PLC                              | Member            |
| 5  | Asura International Business Consultancy PLC                                | Member            |
| 7  | Welkite University (Department of garment engineering)                      | Member            |
| 8  | Ambassador Garment and Trade PLC                                            | Member            |
| 9  | Federal Small and Medium manufacturing Industry Development Agency          | Member            |
| 10 | Federal Democratic of Ethiopia Technical and Vocational Education Institute | Member            |
| 11 | Ethiopian Conformity Assessment Enterprise                                  | Member            |
| 12 | Ethiopian Standards Agency                                                  | Member& Secretary |

**TC 69 Sector**

### TC 70 Textile fabrics

**Scope:** Standardization on terminology, sampling, grading, packaging, labeling and marking, codes of practice, test methods and specifications for all types of woven, knitted and other forms of textile fabrics that are from gray up to finished phase, and related machineries and equipment used for production and testing of fabrics.

|    |                                                                      |                      |
|----|----------------------------------------------------------------------|----------------------|
| 1  | Ethiopian Textile Industry Development Institute                     | Chairperson          |
| 2  | Ethiopian Institute of Textile and Fashion Technology Bahir Dar Univ | Member               |
| 3  | Ethiopian Textile and Garment Manufacturers Association              | Member               |
| 4  | Almeda Textile PLC                                                   | Member               |
| 5  | Asura International Business Consultancy PLC                         | Member               |
| 6  | Ethio-Japan Synthetic Textiles S.C                                   | Member               |
| 7  | Eltex Textile and Garment Factory PLC                                | Member               |
| 8  | Kombolcha Textile S. C                                               | Member               |
| 9  | Addis Garment S.C (Augusta)                                          | Member               |
| 10 | Ethiopian Conformity Assessment Enterprise                           | Member               |
| 11 | Ethiopian Standards Agency                                           | Member and Secretary |

### TC 71 Sizing & Finishing material, Dye stuff & Pigments

**Scope:** Standardization of terminology, packaging and specification for textile sizing and finishing materials ; terminology, methods of chemical and physico-chemical tests for textile auxiliaries and pertaining to textile wet-processing and also the requirements for colour fastness and flammability of all kinds of textile materials.

|    |                                                                            |                   |
|----|----------------------------------------------------------------------------|-------------------|
| 1  | Ethiopian Textile Industry Development Institute                           | Chairperson       |
| 2  | Ethiopian Institute of Textile and Fashion Technology Bahir Dar University | Member            |
| 3  | Environment, Forest Development and Climate Change Commission              | Member            |
| 4  | Almeda Textile PLC                                                         | Member            |
| 5  | Asura International Business Consultancy PLC                               | Member            |
| 6  | Wollo University(Kombolcha Textile Engineering)                            | Member            |
| 7  | DH Geda Dyeing and Bleaching Factory PLC                                   | Member            |
| 8  | Ethiopian Textile and Garment Manufacturers Association                    | Member            |
| 9  | Eltex Textile and Garment Factory PLC                                      | Member            |
| 10 | Chemical Society of Ethiopia                                               | Member            |
| 11 | Ethiopian Conformity Assessment Enterprise                                 | Member            |
| 12 | Ethiopian Standards Agency                                                 | Member& Secretary |

### TC 72 Textile Thread and Garments

**Scope:** Standardization on terminology, sampling, grading, labeling and marking, codes of practice, test methods and specifications for all types of textile sewing and Embroidery threads, made-up and ready- made garments; and related machineries and equipment used for its production and testing

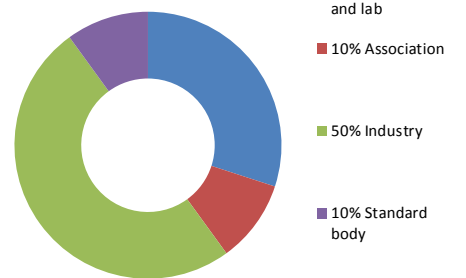
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|----|----------------------------------------------------------------------------|-------------------|
| 1  | Ethiopian Textile Industry Development Institute                           | Chairperson       |
| 2  | Ethiopian Institute of Textile and Fashion Technology Bahir Dar University | Member            |
| 3  | Ethiopian Textile and Garment Manufacturers Association                    | Member            |
| 4  | Desta Garment PLC                                                          | Member            |
| 5  | Nova Star Garment PLC                                                      | Member            |
| 6  | Welkite University (Department of garment engineering)                     | Member            |
| 8  | Asura International Business Consultancy PLC                               | Member            |
| 9  | Ambassador Garment and Trade PLC                                           | Member            |
| 10 | Federal Small and Medium manufacturing Industry Development Agency         | Member            |
| 11 | Akaki Garment PLC                                                          | Member            |
| 12 | Ethiopian Conformity Assessment Enterprise                                 | Member            |
| 13 | Ethiopian Standards Agency                                                 | Member& Secretary |

### TC 73 Raw Hides and Skins, and Tanned Leather

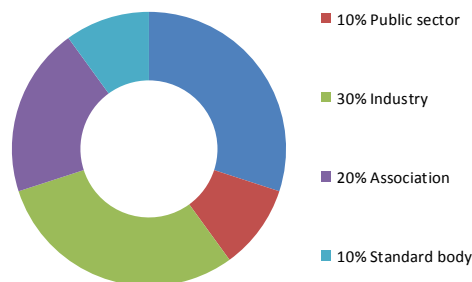
**Scope:** Terminology, sampling, grading, labeling and marking, codes of practice, test methods and specifications for raw hides and skins, tanned and finished leather; and related machineries and equipment used for its production and testing.

|    |                                                                                            |                    |
|----|--------------------------------------------------------------------------------------------|--------------------|
| 1  | Ethiopian Leather Industry Development Institute                                           | Chairperson        |
| 2  | Ethiopian Agricultural Research Institute                                                  | Member             |
| 3  | Environment, Forest Development and Climate Change Commission                              | Member             |
| 4  | Ethiopia Tannery S.C                                                                       | Member             |
| 5  | ELICO- Abyssinia Tannery PLC                                                               | Member             |
| 6  | Addis Ababa Tannery S.C                                                                    | Member             |
| 7  | Ethiopian raw hides and skins suppliers Association                                        | Member             |
| 8  | Addis Ababa university, Institute of Technology Department of chemical and bio-engineering | Member             |
| 9  | National Animal Health Diagnostics and Investigation Center                                | Member             |
| 10 | Colba Tannery PLC                                                                          | Member             |
| 11 | Ethiopian Conformity Assessment Enterprise                                                 | Member             |
| 12 | Ethiopian Standards Agency                                                                 | Member & Secretary |

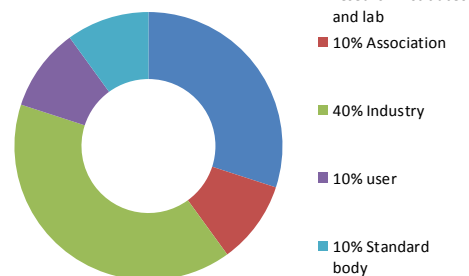
### TC 70 Sector



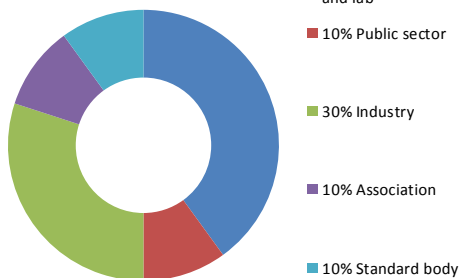
### TC 71 Sector



### TC 72 Sector



### TC 73 Sector



### TC 74 Leather and Leather Products

**Scope:** The scope covers standardization of terminology, sampling, grading, packaging, labeling and marking, codes of practice, test methods and specifications for footwear, leather goods, leather garments, leather gloves and related accessory components; and related machineries and equipment used for its production and testing

|    |                                                                                        |                   |
|----|----------------------------------------------------------------------------------------|-------------------|
| 1  | Ethiopian Leather Industry Development Institute                                       | Chairperson       |
| 2  | Pitard Products Manufacturing PLC                                                      | Member            |
| 3  | ELICO- Awash Tannery PLC                                                               | Member            |
| 4  | Ethiopian Leather Professional Association                                             | Member            |
| 5  | Addis Ababa Science and Technology University, Department of manufacturing Engendering | Member            |
| 6  | Universal Leather Products Factory                                                     | Member            |
| 7  | Chemical Society of Ethiopia                                                           | Member            |
| 8  | Modern Zege leather industries PLC                                                     | Member            |
| 9  | Bahir Dar Tannery PLC                                                                  | Member            |
| 10 | Yezich Alem Meaza Footwear & Leather Goods Exporter PLC                                | Member            |
| 11 | Ethiopian Conformity Assessment Enterprise                                             | Member            |
| 12 | Ethiopian Standards Agency                                                             | Member& Secretary |

### TC 75 Measuring instruments and calibration

**Scope:** Standardization in the field of measuring instruments and their associated calibration related to linear and angular measurements; volume, mass, density and viscosity; time, velocity, acceleration and angular velocity; force, weight and pressure.

|   |                                               |                      |
|---|-----------------------------------------------|----------------------|
| 1 | Ethiopian National Metrology Institute        | Chairperson          |
| 2 | Ethiopian Air Force- Central Metrological Lab | Member               |
| 3 | National Radiation Protection Authority       | Member               |
| 4 | National Meteorological Service Agency        | Member               |
| 5 | Ethiopian power engineering Corporation       | Member               |
| 6 | Ministry of Trade and Industry                | Member               |
| 7 | Ethiopian Metals & Engineering Corporation    | Member               |
| 8 | Ethiopian Standards Agency                    | Member and Secretary |

### TC 76 Net content and information on package labels

**Scope:** Standardization of containers used as measuring instruments, net content in packages and information on package labels.

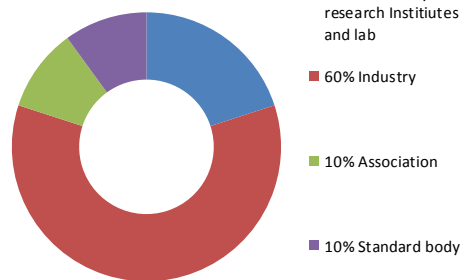
|   |                                            |                      |
|---|--------------------------------------------|----------------------|
| 1 | Ministry of Trade and Industry             | Chairperson          |
| 2 | Ethiopian Consumers Protection Association | Member               |
| 3 | Ethiopian National Metrology Institute     | Member               |
| 4 | Ethiopian Conformity Assessment Enterprise | Member               |
| 5 | Ethiopian Pharmaceuticals Factory          | Member               |
| 6 | Ethiopian Customs Authority                | Member               |
| 7 | FMHACA                                     | Member               |
| 8 | AAU School of Pharmacy                     | Member               |
| 9 | Ethiopian Standards Agency                 | Member and Secretary |

### TC 77 Air Quality

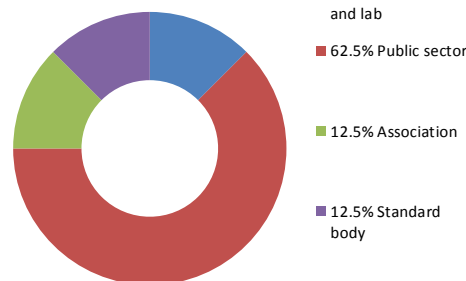
**Scope:** Standardization in the field of air quality (indoor and out door), including definition of terms, sampling of air, measurement, reporting of air characteristics and limits of acceptability for air quality.

|    |                                                               |                      |
|----|---------------------------------------------------------------|----------------------|
| 1  | Environment, Forest Development and Climate Change Commission | Chairperson          |
| 2  | Ethiopian Food and Medicine Control Authority                 | Member               |
| 3  | Chemical Society of Ethiopia                                  | Member               |
| 4  | Addis Ababa University- Department of Chemistry               | Member               |
| 5  | Ethiopian Petroleum Enterprise                                | Member               |
| 6  | Ethiopian Conformity Assessment Enterprise                    | Member               |
| 7  | Trade Competition and Consumer Protection Authority           | Member               |
| 8  | Federal Ministry of Labor & Social Affairs                    | Member               |
| 9  | Ministry of Trade and Industry                                | Member               |
| 10 | Ethiopian Standards Agency                                    | Member and Secretary |

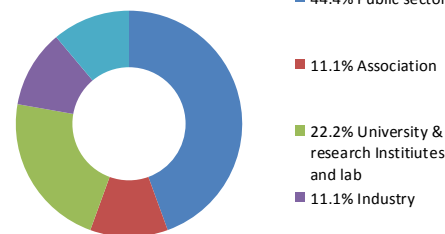
### TC 74 Sector



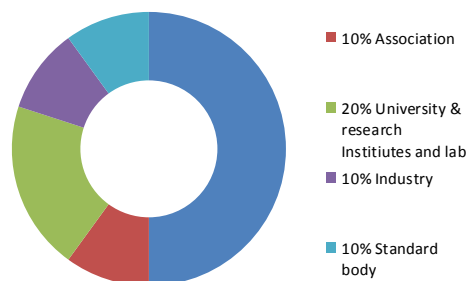
### TC 75 Sector



### TC 76 Sector



### TC 77 Sector



**TC 78 Water Quality**

**Scope:** This scope covers standardization in the field of water quality, including definition of terms, sampling of waters, measurement and reporting of water characteristics as well as limits of acceptability for water quality including packaged water.

|    |                                                   |                      |
|----|---------------------------------------------------|----------------------|
| 1  | Ethiopian Food and Medicine Control Authority     | Chairperson          |
| 2  | Environment, Forest and Climate Change Commission | Member               |
| 3  | Ministry of Water and Irrigation                  | Member               |
| 4  | Ethiopian Public Health Institute                 | Member               |
| 5  | Chemical Society of Ethiopia                      | Member               |
| 6  | Ambo Mineral Water Factory                        | Member               |
| 7  | Ethiopian Conformity Assessment Enterprise        | Member               |
| 8  | YES brands Bottled Water PLC                      | Member               |
| 9  | Abyssinia Food & Beverage PLC                     | Member               |
| 10 | Ethiopian Standards Agency                        | Member and Secretary |

**TC 79 Soil Quality**

**Scope:** Standardization in the field of soil quality including classification, definition of terms, sampling of soils, measurement and reporting of soil characteristics, and limits of acceptability for soil pollution.  
Excluded: Civil engineering aspects

|   |                                               |                      |
|---|-----------------------------------------------|----------------------|
| 1 | Ministry of Agriculture                       | Chairperson          |
| 2 | Ethiopian Institute of Agricultural Research  | Member               |
| 3 | Addis Ababa University- Department of Geology | Member               |
| 4 | Society of Ethiopian Soil Science             | Member               |
| 5 | Chemical Society of Ethiopia                  | Member               |
| 6 | Ethiopian Conformity Assessment Enterprise    | Member               |
| 7 | Ethiopian Standards Agency                    | Member and Secretary |

**TC 80 Occupational safety and industrial hygiene**

**Scope:** Standardization of: - Occupational and health management systems relating to work, working methods, conditions of work and the working environment and; Hygienic requirements of design, construction, installation, operation and cleaning industries.

|   |                                                   |                      |
|---|---------------------------------------------------|----------------------|
| 1 | Federal Ministry of Labor and Social Affairs      | Chairperson          |
| 2 | Ethiopian Food and Medicine Control Authority     | Member               |
| 3 | Addis Ababa University- Department of Biology     | Member               |
| 4 | Ethiopian Employees Confederation                 | Member               |
| 5 | Chemical Society of Ethiopia                      | Member               |
| 6 | Ethiopian Radiation Protection Authority          | Member               |
| 7 | Environment, Forest and Climate Change Commission | Member               |
| 8 | Ethiopian Standards Agency                        | Member and Secretary |

**TC 81 Safety of machinery**

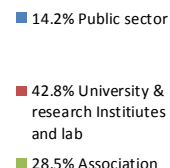
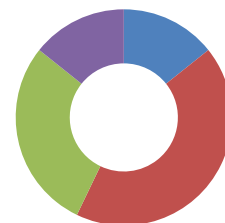
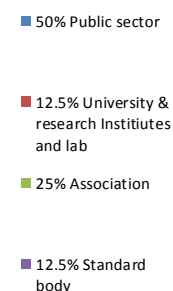
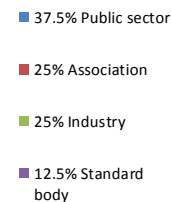
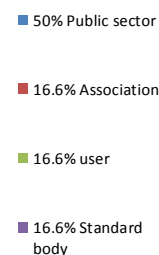
**Scope:** Standardization of basic concepts and general principles for safety of machinery including terminology, methodology, guards and safety device.

|    |                                                  |                      |
|----|--------------------------------------------------|----------------------|
| 1  | Mesfin Industrial Engineering                    | Chairperson          |
| 2  | Ethiopian Society of Mechanical Engineers        | Member               |
| 3  | AAIT-Mechanical & Industrial Engineering         | Member               |
| 4  | Ethiopian Employees Confederation                | Member               |
| 5  | Ministry of Urban Development and Construction   | Member               |
| 6  | Federal Ministry of Labor and Social Affairs     | Member               |
| 7  | Ethiopian Metals and Engineering Corporation     | Member               |
| 8  | Construction Management Institute                | Member               |
| 9  | Kality Construction Materials Production Factory | Member               |
| 10 | Ethiopian Standards Agency                       | Member and Secretary |

**TC 82 Fire safety**

**Scope:** Standardization on: Fire hazards and fire risks to life and to property; The contribution of design, materials, building materials, products and components to fire safety.

|   |                                                          |                      |
|---|----------------------------------------------------------|----------------------|
| 1 | Addis Ababa fire disaster prevention & control Authority | Chairperson          |
| 2 | Ministry of Urban development and Construction           | Member               |
| 3 | Federal Ministry of Labor & Social Affairs               | Member               |
| 4 | Construction Management Institute                        | Member               |
| 5 | Ministry of Urban Development and Construction           | Member               |
| 6 | Ethiopian Petroleum Enterprise                           | Member               |
| 7 | Ethiopian Fire and Security PLC                          | Member               |
| 8 | Ethiopian Standards Agency                               | Member and Secretary |

**TC 78 Sector****TC 79 Sector****TC 80 Sector****TC 81 Sector****TC 82 Sector**

**TC 83 Radiation protection**

**Scope:** Standardization in the field of terms and definitions, units and symbols, radiation dosimeters, radiation sources associated with use, packaging, leakage, transportation, storage, disposal of radio active wastes and radiation protection devices.

|   |                                               |                      |
|---|-----------------------------------------------|----------------------|
| 1 | Ethiopian Radiation Protection Authority      | Chairperson          |
| 2 | Ethiopian Food and Medicine Control Authority | Member               |
| 3 | Addis Ababa University- Department of Physics | Member               |
| 4 | National Metrology Institute                  | Member               |
| 5 | Ethiopian Conformity Assessment Enterprise    | Member               |
| 6 | Federal Ministry of Labor and Social Affairs  | Member               |
| 7 | Ethiopian Standards Agency                    | Member and Secretary |

**TC 84 Personal safety - Protective clothing and equipment**

**Scope:** Standardization of the quality and performance of protective devices designed to safe guard persons against hazards other than those concerned with radiation.

|    |                                                          |                      |
|----|----------------------------------------------------------|----------------------|
| 1  | Federal Ministry of Labor and Social Affairs             | Chairperson          |
| 2  | Ethiopian Employer's Federation                          | Member               |
| 3  | Ethiopian Employees Confederation                        | Member               |
| 4  | Ministry of Mines                                        | Member               |
| 5  | Ethiopian Radiation Protection Authority                 | Member               |
| 6  | Ministry of Urban Development and Construction           | Member               |
| 7  | National Metrology Institute                             | Member               |
| 8  | Kalty Construction Materials Production Factory          | Member               |
| 9  | Professional Association of Occupational Health & Safety | Member               |
| 10 | Ministry of Trade and Industry                           | Member               |
| 11 | Ethiopian Standards Agency                               | Member and Secretary |

**TC 85 Wastes**

**Scope:** Standardization in the field of wastes in general; solid wastes; liquid wastes and sludge; special wastes such as from health institutions, carcasses and other hazardous waste; installations and equipment for waste disposal and treatment; and recycling .

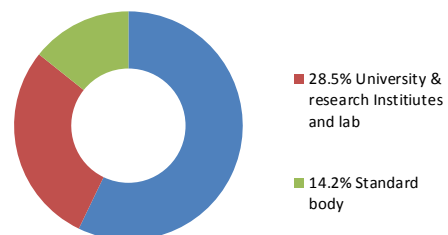
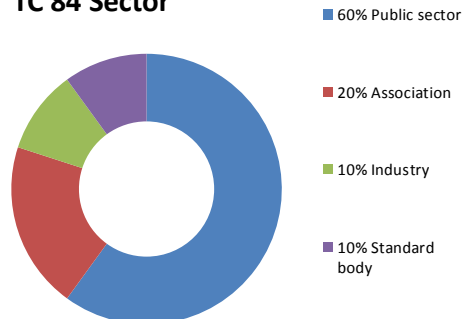
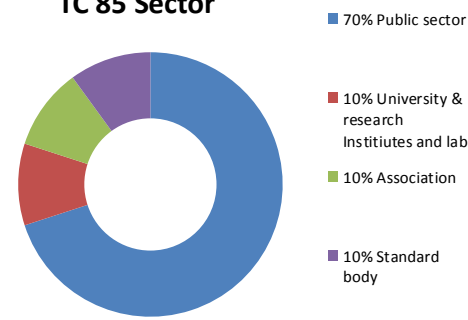
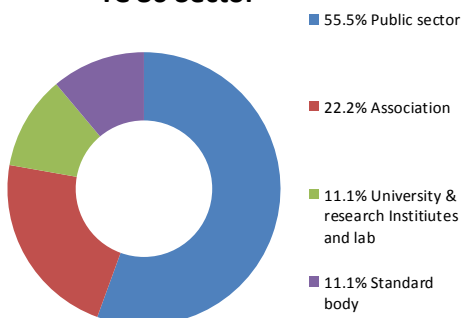
|    |                                                    |                      |
|----|----------------------------------------------------|----------------------|
| 1  | Environment , Forest and Climate Change Commission | Chairperson          |
| 2  | Ministry of Trade and Industry                     | Member               |
| 3  | Ethiopian Leather Industries Development Institute | Member               |
| 4  | Chemical Society of Ethiopia                       | Member               |
| 5  | Ethiopian Industrial Park Development Corporation  | Member               |
| 6  | Ethiopian Textile Industries Development Institute | Member               |
| 7  | Addis Ababa Water & Sewerage Authority             | Member               |
| 8  | Addis Ababa City Manicipality                      | Member               |
| 9  | Chemical Society of Ethiopia                       | Member               |
| 10 | Addis Ababa University- Department of Chemistry    | Member               |
| 11 | Ethiopian Standards Agency                         | Member and Secretary |

**TC 86 Acoustics**

**Scope:** Standardization in the field of acoustics, including methods of measuring acoustical phenomena, their generation, transmission and reception, and all aspects of their effects on man and his environment.

Excluded : electro-acoustics and the implementation of specifications of the characteristics of measuring instruments for acoustic purposes.

|   |                                                                              |                      |
|---|------------------------------------------------------------------------------|----------------------|
| 1 | Federal Ministry of Labor & Social affairs                                   | Chairperson          |
| 2 | AAU-Institute of Technology- School of mechanical & industrial o Engineering | Member               |
| 3 | Ministry of Education                                                        | Member               |
| 4 | Ministry of Technology and Innoviation                                       | Member               |
| 5 | Ethiopian Employees Confederation                                            | Member               |
| 6 | Ethiopian Employers Federation                                               | Member               |
| 7 | Trade Competition and Consumer Protection Authority                          | Member               |
| 8 | National Metrology Institute                                                 | Member               |
| 9 | Ethiopian Standards Agency                                                   | Member and Secretary |

**TC 83 Sector****TC 84 Sector****TC 85 Sector****TC 86 Sector**





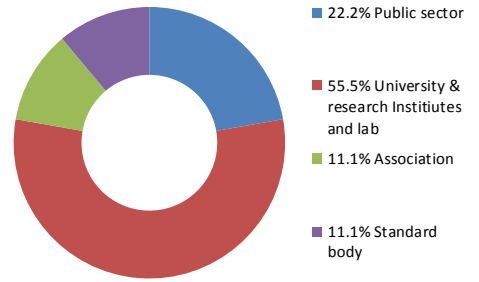


### TC 91 Food products in general

**Scope:** This scope covers standardization of terms, specifications, code of practice, transportation, storage, packing, labeling, sampling, sensory evaluation and methods of analysis (chemical and microbiological)

|   |                                                                   |                      |
|---|-------------------------------------------------------------------|----------------------|
| 1 | Ethiopian Food and Medicine Control Authority                     | Chairperson          |
| 2 | Ethiopian Public Health Institute                                 | Member               |
| 3 | Trade Competition and Consumer's Protection Authority             | Member               |
| 4 | Addis Ababa University - Center for Food Science and Nutrition    | Member               |
| 5 | Food Science & Nutrition Association                              | Member               |
| 6 | Ethiopian Conformity Assessment Enterprise                        | Member               |
| 7 | Food, Beverage and Pharmaceuticals Industry Development Institute | Member               |
| 8 | Bless Agri-food Service Laboratory PLC                            | Member               |
| 9 | Ethiopian Standards Agency                                        | Member and Secretary |

### TC 91 Sector

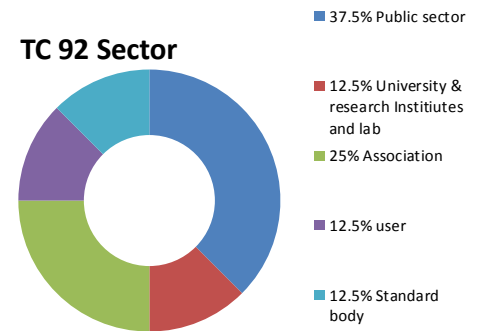


### TC 92 Plant growing

**Scope:** This scope covers standardization of terminology, specifications, classifications and, packaging, relating to S O D Q W J U R Z W K L Q J H Q H U D O D Q G purposes, tobacco, rubber tree seeds and colonial materials.

|   |                                                            |                      |
|---|------------------------------------------------------------|----------------------|
| 1 | Ethiopian Investment Commission                            | Chairperson          |
| 2 | Ethiopian Institute of Agricultural Research               | Member               |
| 3 | Environment, Forest and Climate Change Commission          | Member               |
| 4 | Crop Protection Society of Ethiopia                        | Member               |
| 5 | Ministry of Agriculture                                    | Member               |
| 6 | Horizon Plantation PLC                                     | Member               |
| 7 | Ethiopian Horticulture producers and Exporters Association | Member               |
| 8 | Ethiopian Standards Agency                                 | Member and Secretary |

### TC 92 Sector

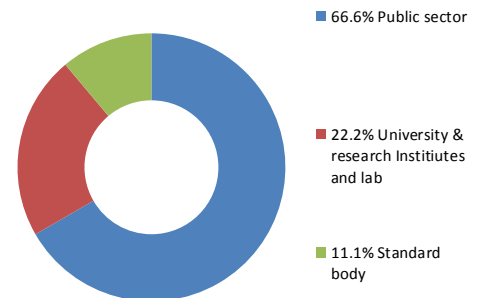


### TC 93 Geographic Information/Geomatics

**Scope:** Standardization in the field of digital geographic information. Note: This work aims to establish a structured set of standards for information concerning objects or phenomena that are directly or indirectly associated with a location relative to the earth. These standards may specify, for geographic information, methods, tools and services for data management (including definition and description).

|   |                                                                   |                      |
|---|-------------------------------------------------------------------|----------------------|
| 1 | Geospatial Information Institute                                  | Chairperson          |
| 2 | Ministry of Communication & Information Technology                | Member               |
| 3 | Information Network Security Agency                               | Member               |
| 4 | Ministry of Water & Energy                                        | Member               |
| 5 | Geological Survey of Ethiopia                                     | Member               |
| 6 | Addis Ababa University, Faculty of Science- Department of Geology | Member               |
| 7 | Addis Ababa University Department of Geography                    | Member               |
| 8 | Central Statistical Agency                                        | Member               |
| 9 | Ethiopian Standards Agency                                        | Member and Secretary |

### TC 93 Sector

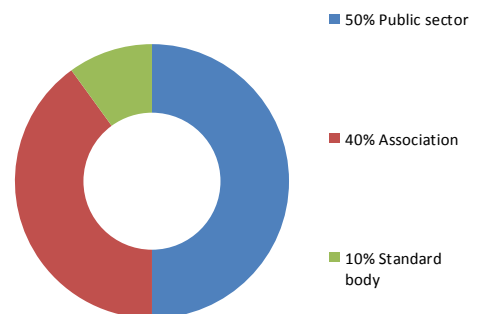


### TC 94 Social Responsibility and security

**Scope:** Standardization of Terminology, trends and characteristics, principles and practices in the social responsibility and security field. The standards in the social responsibility field provide guidance related to: Operationalising social responsibility, Identifying and engaging with stakeholders, Enhancing credibility of reports and claims made about social responsibility, areas of societal security aimed at increasing crisis and continuity management and capabilities through technical, human, organization, operational, and management approaches

|    |                                                       |                      |
|----|-------------------------------------------------------|----------------------|
| 1  | Ministry of Labour and Social Affairs                 | Chairperson          |
| 2  | Ministry of Civil Service                             | Member               |
| 3  | Confederation of Ethiopian Labour Union               | Member               |
| 4  | Ethiopia Employer Federation                          | Member               |
| 5  | Federal Police                                        | Member               |
| 6  | Ministry of Agriculture                               | Member               |
| 7  | Ministry of Health                                    | Member               |
| 8  | Ethiopian Chamber of Commerce & Sectoral Associations | Member               |
| 9  | National Association of Ethiopian Industries          | Member               |
| 10 | Ministry of Trade and Industry                        | Member               |
| 11 | Christian Relief Development Agency                   | Member               |
| 12 | Ministry of Education                                 | Member               |
| 13 | Trade Competition and Consumer's Protection Authority | Member               |
| 14 | Environmental, Forest and Climate change Commission   | Member               |
| 15 | Ethiopian Standards Agency                            | Member and Secretary |

### TC 94 Sector



### TC 95 Social Security

**Scope:** Standardization in the area of societal security aimed at increasing crisis and continuity management and capabilities through technical, human, organization, operational, and management approaches; operational functionality and interoperability and awareness amongst all interested parties and stakeholders.

|    |                                                       |                      |
|----|-------------------------------------------------------|----------------------|
| 1  | Ministry of Agriculture                               | Chairperson          |
| 2  | Federal Police                                        | Member               |
| 3  | Ministry of Labour and Social Affairs                 | Member               |
| 4  | Ministry of Civil Service                             |                      |
| 5  | Confederation of Ethiopian Labour Union               |                      |
| 6  | Ethiopia Employer Federation                          |                      |
| 7  | Ethiopian Food and Medicine Control Authority         | Member               |
| 8  | Ministry of Water and Energy                          | Member               |
| 9  | Trade Competition and Consumer's Protection Authority | Member               |
| 10 | Ethiopian Red Cross Society                           | Member               |
| 11 | Environmental, Forest and Climate change Commission   | Member               |
| 12 | Ministry of Health                                    | Member               |
| 13 | Ethiopian Meteorological Agency                       | Member               |
| 14 | Ethiopian Standards Agency                            | Member and Secretary |

### TC 96 Sports Equipment and Facilities

**Scope:** Standardization in field of sport-Sports equipments and facilities, indoor and outdoor sports and safety and health care practices and related facilities and practices.

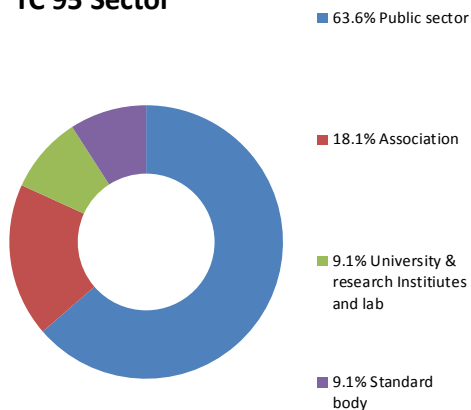
|    |                                                        |                      |
|----|--------------------------------------------------------|----------------------|
| 1  | Ethiopian Sports Commission                            | Chairperson          |
| 2  | Ministry of Education                                  | Member               |
| 3  | Ethiopian Food and Medicine Control Authority          | Member               |
| 4  | Ethiopian Football Federation                          | Member               |
| 5  | Ethiopian Athletics Federation                         | Member               |
| 6  | Ethiopian Olympic Committee                            | Member               |
| 7  | Ministry of Labour & Social Affairs                    | Member               |
| 8  | Addis Ababa University                                 | Member               |
| 9  | Hakie Sports Materials Production and Distribution PLC | Member               |
| 10 | Ethiopian Standards Agency                             | Member and Secretary |

### TC 97 Medical equipments and supplies

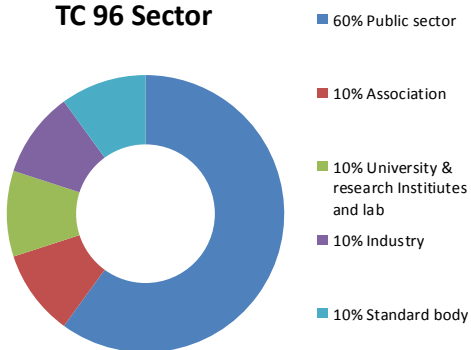
**Scope:** Standardization of terms and definitions, tests, specifications, refurbishing of Medical equipments including various diagnostic, laboratories, surgery, dental medical instruments and suturing materials, syringes and needles, including essential spare parts Standardization of medical devices for transfusion, infusion and injection (syringes, needles, intramuscular, catheters and pen-injectors).

|    |                                                                 |                      |
|----|-----------------------------------------------------------------|----------------------|
| 1  | Ethiopian Food and Medicine Control Authority                   | Chairperson          |
| 2  | Federal Ministry of Health                                      | Member               |
| 3  | Ethiopian Biomedical Engineering Association                    | Member               |
| 4  | Ethiopian Public Health Institute                               | Member               |
| 5  | Addis Ababa University- Medical Faculty, Tikur Anbessa Hospital | Member               |
| 6  | A.A. Health bureau                                              | Member               |
| 7  | Tikur Anbessa Hospital                                          | Member               |
| 8  | Center of Biomedical Engineering of AAiT   AAU                  | Member               |
| 9  | Jimma University                                                | Member               |
| 10 | Gonder University                                               | Member               |
| 11 | Private Hospitals Associations                                  | Member               |
| 12 | Ethiopian Medical Association                                   | Member               |
| 13 | Ethiopian Private Health Facilities Employers Association       | Member               |
| 14 | Ethiopian Medical Laboratory Association                        | Member               |
| 15 | Medical Association of Physicians in Private Practice Ethiopia  | Member               |
| 16 | National Metrology Institute                                    | Member               |
| 17 | Ethiopian Standards Agency                                      | Member and Secretary |

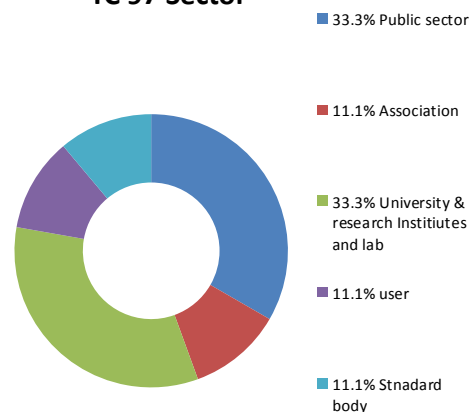
### TC 95 Sector



### TC 96 Sector



### TC 97 Sector



**TC 98 Environmental Management**

**Scope:** Standardization in the field of environmental management systems and tools in support of sustainable development including auditing and related environmental investigations environmental performance evaluation, environmental labeling, life cycle assessment, environmental communication, environmental aspects of product design and development, environmental aspects in product standards, terms and definitions, greenhouse gas management and related activities and measuring the carbon foot print of products.

|    |                                                                |                      |
|----|----------------------------------------------------------------|----------------------|
| 1  | Environment , Forestry and Climate Change Commission           | Chairperson          |
| 2  | Ministry of Water and Irrigation                               | Member               |
| 3  | Addis Ababa University- department of Environmental Science    | Member               |
| 4  | Leather Industry Development Institute                         | Member               |
| 5  | Textile Industry Development Institute                         | Member               |
| 6  | Addis Ababa City Government Environmental Protection Authority | Member               |
| 7  | Institute of Hotel & Tourism                                   | Member               |
| 8  | A.A.Water & Sewerage Authority                                 | Member               |
| 9  | Addis Ababa University- Department of Chemistry                | Member               |
| 10 | Ethiopian Industrial Park Development Corporation              | Member               |
| 11 | Ethiopian Management Institute                                 | Member               |
| 12 | Ethiopian Standards Agency                                     | Member and Secretary |

**TC 99 Bamboo and Bamboo Products**

**Scope:** The scope covers standardization of requirements for determination of physical and mechanical properties of bamboo, test methods for determination of physical and mechanical properties of bamboo and bamboo structural Design.

|   |                                                        |                      |
|---|--------------------------------------------------------|----------------------|
| 1 | Addis Ababa University (EIABC)                         | Chairperson          |
| 2 | Ministry of urban Development and and Construction     | Member               |
| 3 | Ministry of Agriculture                                | Member               |
| 4 | Bamboo star Agro-forestry P.L.C                        | Member               |
| 5 | African Bamboo P.L.C                                   | Member               |
| 6 | Environment , Forestry and Climate Change Commission   | Member               |
| 7 | Forestry Research center                               | Member               |
| 8 | Federal micro and Small Enterprises Development Agency | Member               |
| 9 | Ethiopian Standard Agency                              | Member and Secretary |

**TC 100 Mining and Minerals**

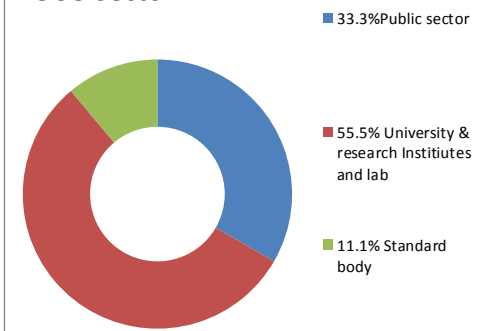
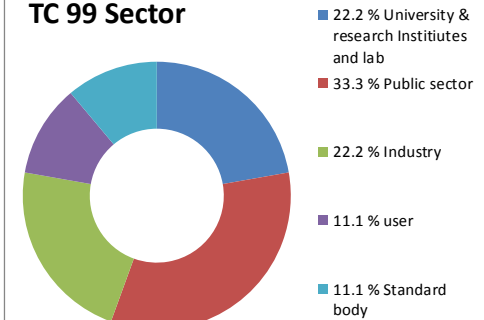
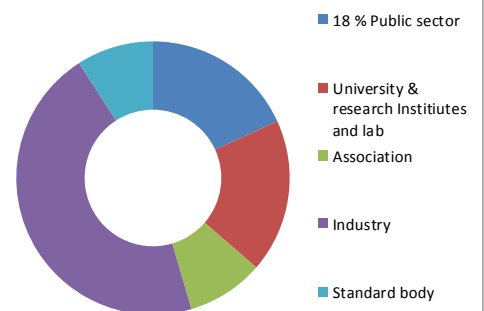
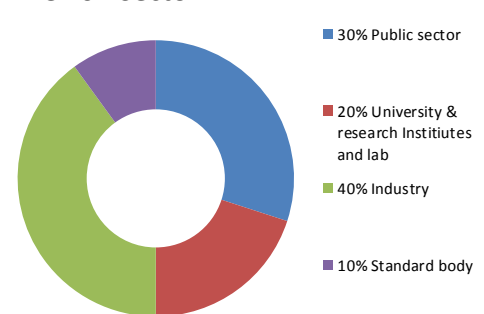
**Scope:** Standardization in the field of mining and minerals in general; mining and quarrying, coals, metalliferous minerals and their concentrates, non-metalliferous minerals, mining equipment and equipment for processing of minerals.

|    |                                              |                      |
|----|----------------------------------------------|----------------------|
| 1  | Ministry of mining                           | Chairperson          |
| 2  | AAU-Department of Geology                    | Member               |
| 3  | Chemical Society of Ethiopia                 | Member               |
| 4  | Geological Survey of Ethiopia                | Member               |
| 5  | Ethiopian Metals and Engineering Corporation | Member               |
| 6  | Ezana Mining Development PLC                 | Member               |
| 7  | Midroc Gold Mine PLC                         | Member               |
| 8  | Ethiopian Mineral Development SC.            | Member               |
| 9  | Allana Potash Afar PLC                       | Member               |
| 10 | Unity University                             | Member               |
| 11 | Ethiopian Standards Agency                   | Member and Secretary |

**TC 101 House hold electric appliance and Cookstove**

**Scope:** household cooking and heating appliances, running with solid, liquid and gaseous fuels. It contains stoves and built in appliances, coal and oil ovens, open fire stoves, independent gas-fired space heaters, heating inserts for tiled stoves and fire places, woodpellet-fired independent heaters, water heaters and special appliances.

|    |                                                                                                    |                      |
|----|----------------------------------------------------------------------------------------------------|----------------------|
| 1  | Ethiopian Energy Authority                                                                         | Chairperson          |
| 2  | Ethiopian Electric utility                                                                         | Member               |
| 3  | Ethiopian Electric Power                                                                           | Member               |
| 4  | Addis Ababa University -Institute of Technology- Department of Electrical and Computer Engineering | Member               |
| 5  | Ethiopian Power Engineering Industry (METEC)                                                       | Member               |
| 6  | Ethiopian Conformity Assessment Enterprise                                                         | Member               |
| 7  | Euro cable P.L.C                                                                                   | Member               |
| 8  | BMET P.L.C                                                                                         | Member               |
| 9  | BELAY AB Cabel                                                                                     | Member               |
| 10 | Ethiopian Standards Agency                                                                         | Member and Secretary |

**TC 98 Sector****TC 99 Sector****TC 100 Sector****TC 101 Sector**

### TC 102 Applications of statistical methods

**Scope:** Standardization in the application of statistical methods, including generation, collection (planning and design), analysis, presentation and interpretation of data.

|    |                                                           |                      |
|----|-----------------------------------------------------------|----------------------|
| 1  | Ethiopian statistic Agency                                | chair person         |
| 2  | Ethiopian Statistics Professional Association             | member               |
| 3  | Ministry of Trade and Industry                            | member               |
| 4  | Addis ababa unversity Statistic department                | member               |
| 5  | Ethiopian Accreditation Office                            | Member               |
| 6  | Ethiopian Management Institute                            | Member               |
| 7  | Addis Ababa Chamber of Commerce and Sectoral Associations | Member               |
| 8  | National Metrology Institute                              | Member               |
| 9  | Ethiopian Conformity Assessment Enterprise                | Member               |
| 10 | Integrated Quality Solution PLC                           | Member               |
| 11 | Ethiopian Investment Commission                           | Member               |
| 12 | Ethiopian standards agency                                | Member and Secretary |

### TC 103 Printing and Graphic Technology

**Scope:** Standardization for the printing industry, including printing technology and multi-media services where text and images information, recreated,processed,touched-up,produced and/or distributed.

|    |                                                                   |                      |
|----|-------------------------------------------------------------------|----------------------|
| 1  | Berhanena Selam Printing Enterprise                               | Chairperson          |
| 2  | Ethiopia Publishers and Printers Association                      | member               |
| 3  | Chemical and Construction Inputs Industries development Institute | Member               |
| 4  | EIABC Chair of Visual Arts and Graphic Communications             | Member               |
| 5  | Geospatial and Information Institute                              | Member               |
| 6  | Association of Visual Arts and Graphic Communications             | Member               |
| 7  | Technology and Innovation Institute                               | Member               |
| 8  | AAU Alle School of Fine Arts and Design                           | Member               |
| 9  | AAIT School Of Mechanical and Industrial Engineering              | Member               |
| 10 | Ethiopian Standards Agency                                        | Member and Secretary |

### TC 104 Cinematography

**Scope:** Standardization of definitions, dimensions, methods of measurement and test, and performance characteristics relating to materials and apparatus used in silent and sound motion picture photography; in sound recording and reproduction related thereto; in the installation and characteristics of projection and sound reproduction equipment; in laboratory work; and in standards relating to sound and picture films used in television.

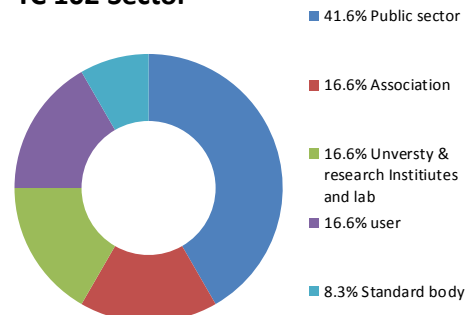
|    |                                                            |                      |
|----|------------------------------------------------------------|----------------------|
| 1  | Ministry of Culture and Tourism                            | Chairperson          |
| 2  | Addis Ababa Culture and Tourism Bureau                     | Member               |
| 3  | Zeleman film production                                    | Member               |
| 4  | Ethiopian Broadcasting Cooperation                         | Member               |
| 5  | Ethiopian Film makers Association                          | Member               |
| 6  | Ethiopian Film Producers Association                       | Member               |
| 7  | The International Emerging Film Talent Association (IEFTA) | Member               |
| 8  | AAU Alle School of Fine Arts and Design                    | Member               |
| 9  | National Teatre                                            | Member               |
| 10 | Ethiopian Writers Association                              | Member               |
| 11 | Alem Cinema                                                | Member               |
| 12 | Hager fikir teatre                                         | Member               |
| 13 | Ethiopian Standards Agency                                 | Member and Secretary |

### TC 105 Education Services

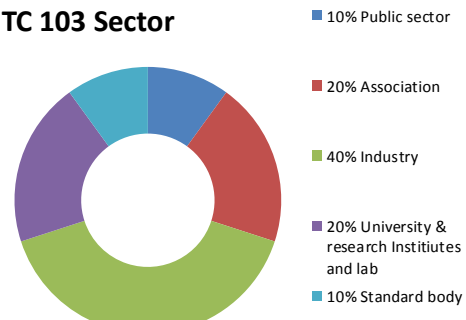
**Scope:** Standardization of definitions, performance characteristics for schools , colleges and code of pracices and services delevered , qualification and personel requirements.

|    |                                                                            |                      |
|----|----------------------------------------------------------------------------|----------------------|
| 1  | Ministry of Education                                                      | Chairperson          |
| 2  | Higher Education Relevance and Quality Authentication Agency               | Member               |
| 3  | AAU College of Education and Behavioral Studies                            | Member               |
| 4  | BDU College Of Education and Behavioral Science                            | Member               |
| 5  | National Educational Assessment And Examination Agency                     | Member               |
| 6  | Federal Technical and Vocational Education and Training (TVET) Agency      | Member               |
| 7  | Ethiopian Management Institute                                             | Member               |
| 8  | Kotebe metropolitan university College Of Education and Behavioral Science | Member               |
| 9  | Ethiopian Civil ServiceUniversity                                          | Member               |
| 10 | Ethiopian Standards Agency                                                 | Member and Secretary |

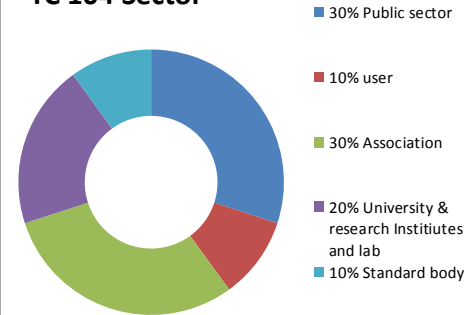
### TC 102 Sector



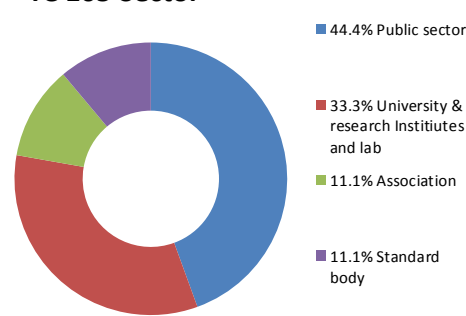
### TC 103 Sector



### TC 104 Sector

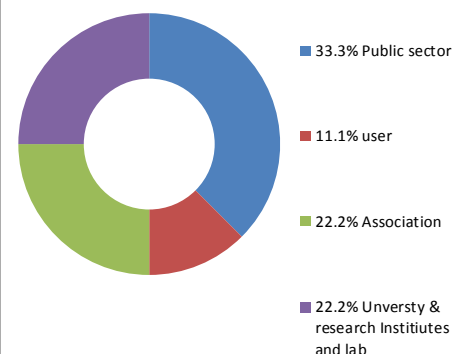


### TC 105 Sector

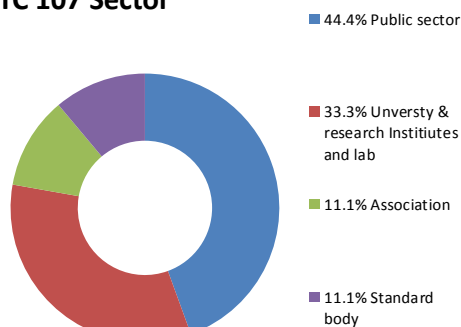


**TC 106 Human resource management****Scope:** Standardization in the field of human resource management

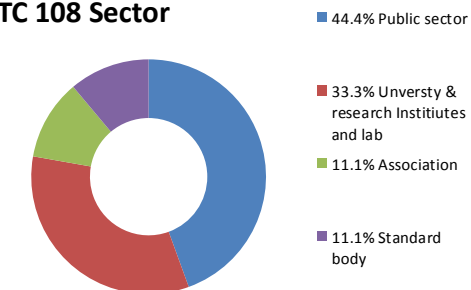
|    |                                                           |                      |
|----|-----------------------------------------------------------|----------------------|
| 1  | Civil Service Commission                                  | Chairperson          |
| 2  | Ministry of Labour and Social Affairs                     |                      |
| 3  | Confederation of Ethiopian Labour Union                   |                      |
| 4  | Ethiopian employer federation                             |                      |
| 5  | Ministry of education                                     | Member               |
| 6  | Ministry of Innovation and Technology                     | Member               |
| 7  | Addis ababa university college of Business and Economics  | Member               |
| 8  | Ethiopian Accreditation Office                            | Member               |
| 9  | Ethiopian Management Institute                            | Member               |
| 10 | Addis Ababa Chamber of Commerce and Sectoral Associations | Member               |
| 11 | ministry of women child and youth affairs                 | Member               |
| 12 | Civil service university                                  | Member               |
| 13 | Ethiopian standards agency                                | Member and Secretary |

**TC 106 Sector****TC 107 Financial services****Scope:** Standardization in the field of banking, securities and other financial services

|    |                                                             |                      |
|----|-------------------------------------------------------------|----------------------|
| 1  | National Bank of Ethiopia                                   | Chairperson          |
| 2  | Commercial Bank of Ethiopia                                 | Member               |
| 3  | Ministry of finance and economic affair                     | Member               |
| 4  | Accounting and Audit Board of Ethiopia                      | Member               |
| 5  | Federal Auditor General                                     | Member               |
| 6  | Awash bank                                                  | Member               |
| 7  | Dashen Bank                                                 | Member               |
| 8  | Addis Ababa University -accounting and economics department | Member               |
| 9  | Addis International Bank                                    | Member               |
| 10 | Abay bank                                                   | Member               |
| 11 | Bank of Abbyssinia                                          | Member               |
| 12 | Berhan International Bank                                   | Member               |
| 13 | Financial Security Intelligence Agency                      | Member               |
| 14 | Eth switch solutions                                        | Member               |
| 15 | Bunna Intrnational Bank                                     | Member               |
| 16 | Cooperative Bank of Oromia                                  | Member               |
| 17 | Debut Global Bank                                           | Member               |
| 18 | Development Bank of Ethiopia                                | Member               |
| 19 | Enat Bank                                                   | Member               |
| 20 | Lion International Bank                                     | Member               |
| 21 | Nib  International Bank                                     | Member               |
| 22 | Oromia International Bank                                   | Member               |
| 23 | United Bank                                                 | Member               |
| 24 | Wegagen Bank                                                | Member               |
| 25 | Zemen Bank                                                  | Member               |
| 26 | Addis Credit and Saving institute                           | Member               |
| 27 | Kifiya FinancialTechnologies                                | Member               |
| 28 | Ethiopian Standards Agency                                  | Member and Secretary |

**TC 107 Sector****TC 108 Customer contact centres****Scope:** Standardization in the field of customer contact centres

|    |                                                           |                      |
|----|-----------------------------------------------------------|----------------------|
| 1  | Ministry of urban development and Construction            | Chairperson          |
| 3  | Ministry of Trade and Industry                            | Member               |
| 4  | Ethiopian Accreditation Office                            | Member               |
| 5  | Ethiopian Management Institute                            | Member               |
| 6  | Addis Ababa Chamber of Commerce and Sectoral Associations | Member               |
| 7  | National Metrology Institute                              | Member               |
| 8  | Ethiopian Conformity Assessment Enterprise                | Member               |
| 9  | Civil Service Commission                                  | Member               |
| 10 | Ethiopian Investment Commission                           | Member               |
| 11 | Ethiopian standards agency                                | Member and Secretary |

**TC 108 Sector**

**TC 109 Forensic sciences**

**Scope:** Standardization and guidance in the field of Forensic Science. This includes the development of standards that pertain to laboratory and field based forensic science techniques and methodology in broad general areas such as the detection and collection of physical evidence, the subsequent analysis and interpretation of the evidence, and the reporting of results and findings.

|    |                                                           |                      |
|----|-----------------------------------------------------------|----------------------|
| 1  | Ministry of Industry and Trade                            | Chairperson          |
| 2  | Ethiopian Accreditation Office                            | Member               |
| 3  | Ethiopian Management Institute                            | Member               |
| 4  | Addis Ababa Chamber of Commerce and Sectoral Associations | Member               |
| 5  | National Metrology Institute                              | Member               |
| 6  | Ethiopian Conformity Assessment Enterprise                | Member               |
| 7  | Civil Service Commission                                  | Member               |
| 8  | Federal Police                                            |                      |
| 9  | Ethiopian Investment Commission                           | Member               |
| 10 | Ethiopian standards agency                                | Member and Secretary |

**TC 110 Organizational Governance**

**Scope:** Standardization in the field of facility handling, loading and management

|    |                                                           |                      |
|----|-----------------------------------------------------------|----------------------|
| 1  | Civil Service Commission                                  | Chairperson          |
| 2  | Ministry of Urban development and Construction            | Member               |
| 4  | Ministry of Education                                     | Member               |
| 5  | Ministry of Industry and Trade                            | Member               |
| 6  | Ethiopian Accreditation Office                            | Member               |
| 7  | Ethiopian Management Institute                            | Member               |
| 8  | Addis Ababa Chamber of Commerce and Sectoral Associations | Member               |
| 9  | National Metrology Institute                              | Member               |
| 10 | Ethiopian Conformity Assessment Enterprise                | Member               |
| 11 | Ministry of Labour & Social Affairs                       | Member               |
| 12 | Ethiopian Investment Commission                           | Member               |
| 13 | Ethiopian standards Agency                                | Member and Secretary |

**TC 111 Energy management**

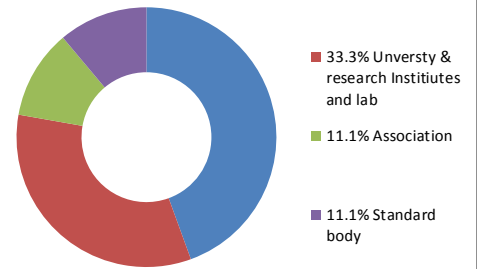
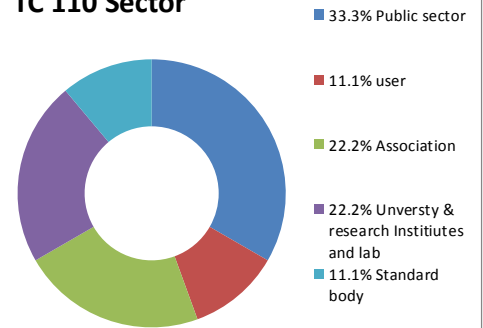
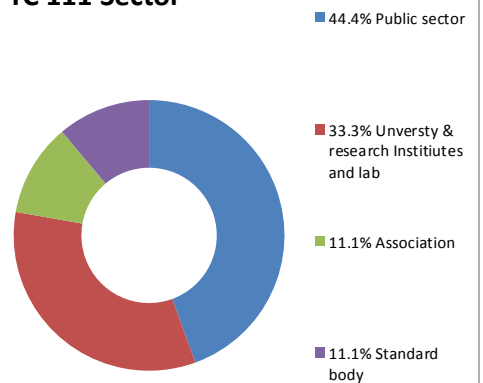
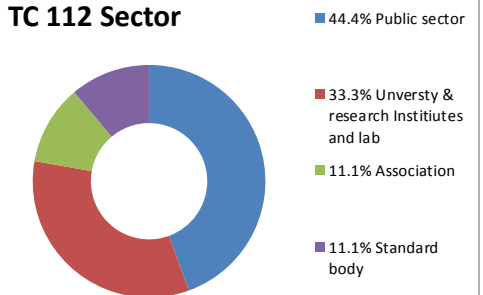
**Scope:** Standardization in the field of customer contact centres

|    |                                                |                      |
|----|------------------------------------------------|----------------------|
| 1  | Ethiopian Energy Authority                     | Chairperson          |
| 2  | Ethiopian Electric utility                     | Member               |
| 3  | Ethiopian Electric Power                       | Member               |
| 4  | Ministry of Water Irrigation and Electric      | Member               |
| 5  | Ethiopian Management Institute                 | Member               |
| 6  | Ministry of Urban development and Construction | Member               |
| 7  | National Metrology Institute                   | Member               |
| 8  | Ethiopian Conformity Assessment Enterprise     | Member               |
| 9  | Ethiopian Investment Commission                | Member               |
| 10 | Ethiopian standards agency                     | Member and Secretary |

**TC 112 Cyber Security**

**Scope:** Standardization in the field of cyber circuitry

|    |                                                |                      |
|----|------------------------------------------------|----------------------|
| 1  | Ethiopian Energy Authority                     | Chairperson          |
| 2  | Ministry of science and Higher Education       | Member               |
| 3  | Ministry of innovation and technology          | Member               |
| 4  | National bank of Ethiopia                      | Member               |
| 5  | Ethiopian Management Institute                 | Member               |
| 6  | Ministry of Urban development and Construction | Member               |
| 7  | National Metrology Institute                   | Member               |
| 8  | Ethiopian Conformity Assessment Enterprise     | Member               |
| 9  | Ethiopian Investment Commission                | Member               |
| 10 | Ethiopian standards agency                     | Member and Secretary |

**TC 109 Sector****TC 110 Sector****TC 111 Sector****TC 112 Sector**

**TC 113 Anti bribery****Scope:** Standardization in the field of Anti bribery and resource management and security.

|    |                                                |                      |
|----|------------------------------------------------|----------------------|
| 1  | Anti corruption commission                     | Chairperson          |
| 2  | Ministry of finance and economic affair        | Member               |
| 3  | Civil service commission                       | Member               |
| 4  | Ministry of labour and social affair           | Member               |
| 5  | Attorney General                               | Member               |
| 6  | Ministry of Urban development and Construction | Member               |
| 7  | Civil Service Commission                       |                      |
| 8  | Investement commission                         |                      |
| 9  | Ethiopian Investment Commission                | Member               |
| 10 | Ethiopian standards agency                     | Member and Secretary |

**TC 114: Innovation management**

Standardization of terminology tools and methods and interactions between relevant parties to enable innovation

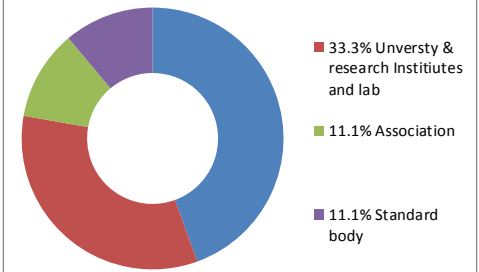
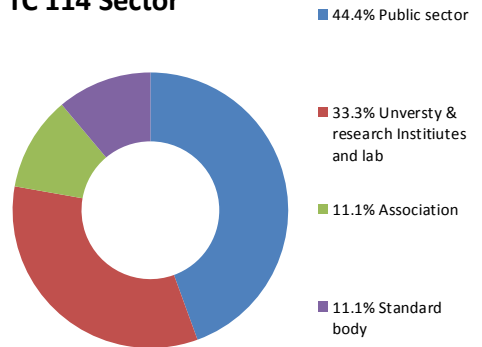
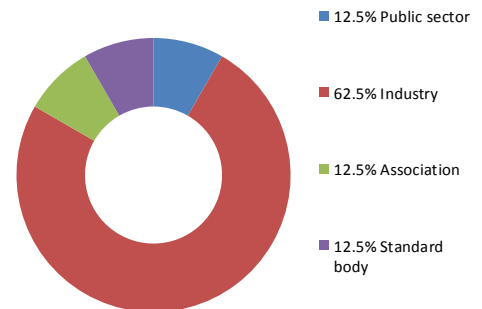
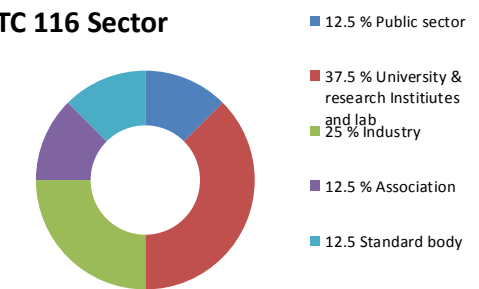
|    |                                             |                    |
|----|---------------------------------------------|--------------------|
| 1  | Ministry of innovation and Technology       | Chairperson        |
| 2  | Addis Ababa Univeristy                      | Member             |
| 3  | Adama Univristry                            | Member             |
| 4  | Ethiopian ntellectual right property Office | Member             |
| 5  | Science and Technology Information Center   | Member             |
| 6  | Ministry of Education                       | Member             |
| 7  | Ethiopian science acadamy                   | Member             |
| 8  | Biotechnology institute                     | Member             |
| 9  | National Space science                      | Member             |
| 10 | Ethiopian Standards Agency                  | Member & Secretary |

**TC 115 Furniture****Scope:** Standardization in the field of furniture including: terms and definitions; performance, safety and dimensional requirements; requirements for specific components (such as hardware); test methods. By furniture is meant free-standing or built-in units which are used for storing, lying, sitting, working and eating.

|    |                                                              |                      |
|----|--------------------------------------------------------------|----------------------|
| 1  | Ministry of Education                                        | Chairperson          |
| 2  | Educational Materials Production and Distribution Enterprise | Member               |
| 3  | Artistic Printing Enterprise                                 | Member               |
| 4  | Berhanena Selam Printing Enterprise                          | Member               |
| 5  | Delux -Furniture                                             | Member               |
| 6  | Excel furniture                                              | Member               |
| 7  | EDN furniture                                                | Member               |
| 8  | Techno style                                                 | Member               |
| 9  | Yekatit Paper Converting Enterprise                          | Member               |
| 10 | Finfine Furniture Factory                                    | Member               |
| 11 | Small and midium manufacturing Industry Development Agency   | Member               |
| 12 | Ethiopian Standards Agency                                   | Member and Secretary |

**TC 116 Home equipments****Scope:** standardization of all types of household or home utensils.

|   |                                                                                      |                      |
|---|--------------------------------------------------------------------------------------|----------------------|
| 1 | Ministry of Trade and Industry                                                       | Chairperson          |
| 2 | Addis Ababa University -Institute of Technology-Department of Mechanical Engineering | Member               |
| 3 | Koffe Household Utensils                                                             | Member               |
| 4 | METEC-Akaki Basic Metals Industry                                                    | Member               |
| 5 | Ethiopian Metals Industry Development Institute                                      | Member               |
| 6 | Ethiopian Conformity Assessment Enterprise                                           | Member               |
| 7 | Trade computation and Consumers Protection Authority                                 | Member               |
| 8 | Ethiopian Standards Agency                                                           | Member and Secretary |

**TC 117 Facility management****TC 113 Sector****TC 114 Sector****TC 115 Sector****TC 116 Sector**

**TC 113 Anti bribery****Scope:** Standardization in the field of Anti bribery and resource management and security.

|    |                                                |                      |
|----|------------------------------------------------|----------------------|
| 1  | Anti corruption commission                     | Chairperson          |
| 2  | Ministry of finance and economic affair        | Member               |
| 3  | Civil service commission                       | Member               |
| 4  | Ministry of labour and social affair           | Member               |
| 5  | Attorney General                               | Member               |
| 6  | Ministry of Urban development and Construction | Member               |
| 7  | Civil Service Commission                       |                      |
| 8  | Investement commission                         |                      |
| 9  | Ethiopian Investment Commission                | Member               |
| 10 | Ethiopian standards agency                     | Member and Secretary |

**TC 114: Innovation management**

Standardization of terminology tools and methods and interactions between relevant parties to enable innovation

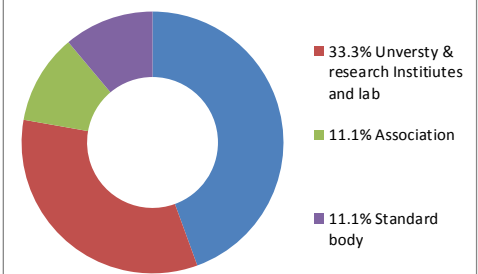
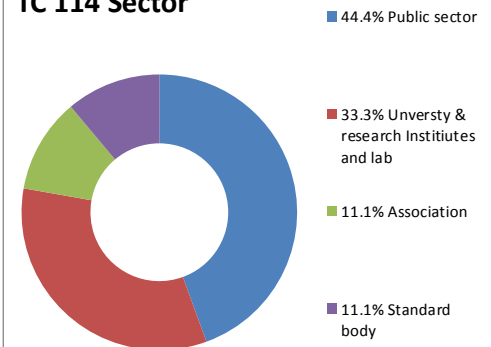
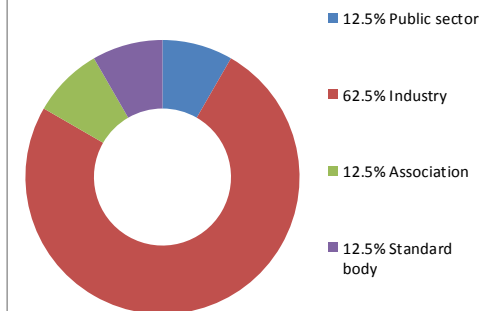
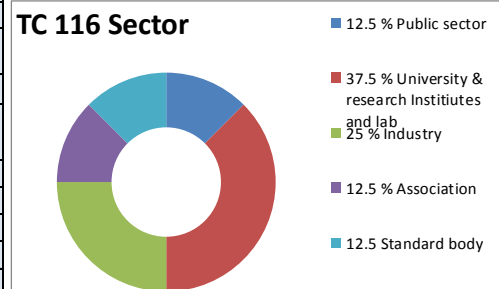
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|----|---------------------------------------------|--------------------|
| 1  | Ministry of innovation and Technology       | Chairperson        |
| 2  | Addis Ababa Univeristy                      | Member             |
| 3  | Adama Univristy                             | Member             |
| 4  | Ethiopian ntellectual right property Office | Member             |
| 5  | Science and Technology Information Center   | Member             |
| 6  | Ministry of Education                       | Member             |
| 7  | Ethiopian science acadamy                   | Member             |
| 8  | Biotechnology institute                     | Member             |
| 9  | National Space science                      | Member             |
| 10 | Ethiopian Standards Agency                  | Member & Secretary |

**TC 115 Furniture****Scope:** Standardization in the field of furniture including; terms and definitions; performance, safety and dimensional requirements; requirements for specific components (such as hardware); test methods. By furniture is meant free-standing or built-in units which are used for storing, lying, sitting, working and eating.

|    |                                                              |                      |
|----|--------------------------------------------------------------|----------------------|
| 1  | Ministry of Education                                        | Chairperson          |
| 2  | Educational Materials Production and Distribution Enterprise | Member               |
| 3  | Artistic Printing Enterprise                                 | Member               |
| 4  | Berhanena Selam Printing Enterprise                          | Member               |
| 5  | Delux -Furniture                                             | Member               |
| 6  | Excel furniture                                              | Member               |
| 7  | EDN furniture                                                | Member               |
| 8  | Techno style                                                 | Member               |
| 9  | Yekatit Paper Converting Enterprise                          | Member               |
| 10 | Finfine Furniture Factory                                    | Member               |
| 11 | Small and midium manufacturing Industry Development Agency   | Member               |
| 12 | Ethiopian Standards Agency                                   | Member and Secretary |

**TC 116 Home equipments****Scope:** standardization of all types of household or home utensils.

|   |                                                                                      |                      |
|---|--------------------------------------------------------------------------------------|----------------------|
| 1 | Ministry of Trade and Industry                                                       | Chairperson          |
| 2 | Addis Ababa University -Institute of Technology-Department of Mechanical Engineering | Member               |
| 3 | Koffe Household Utensils                                                             | Member               |
| 4 | METEC-Akaki Basic Metals Industry                                                    | Member               |
| 5 | Ethiopian Metals Industry Development Institute                                      | Member               |
| 6 | Ethiopian Conformity Assessment Enterprise                                           | Member               |
| 7 | Trade computation and Consumers Protection Authority                                 | Member               |
| 8 | Ethiopian Standards Agency                                                           | Member and Secretary |

**TC 113 Sector****TC 114 Sector****TC 115 Sector****TC 116 Sector**



**TC 117 Facility management****Scope:** Standardization in the field of facility handling ,loading and management

|    |                                                           |                      |
|----|-----------------------------------------------------------|----------------------|
| 1  | Ministry of Urban development and Construction            | Chairperson          |
| 2  | Management institute                                      | Member               |
| 3  | Ministry of Education                                     | Member               |
| 4  | Civil services Commission                                 | Member               |
| 5  | Ethiopian Accreditation Office                            | Member               |
| 6  | Ethiopian Management Institute                            | Member               |
| 7  | Addis Ababa Chamber of Commerce and Sectoral Associations | Member               |
| 8  | National Metrology Institute                              | Member               |
| 9  | Ethiopian Conformity Assessment Enterprise                | Member               |
| 10 | Ministry of Innovation and Technology                     | Member               |
| 11 | Ethiopian Investment Commission                           | Member               |
| 12 | Ethiopian standards Agency                                | Member and Secretary |

**TC 118 Dry land Farming****Scope:** Standardization in the field of dry land farming , for good agricultural practices, code of practices for dry land farming her financial services

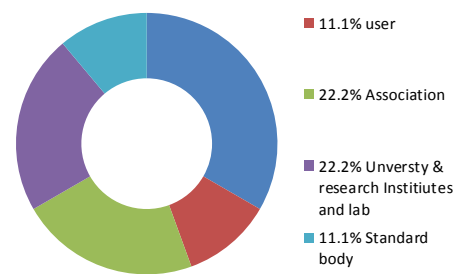
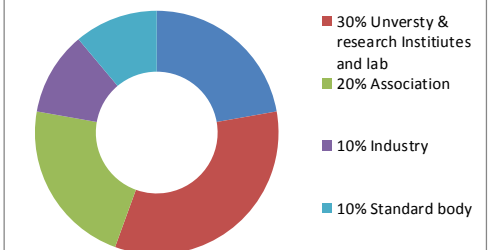
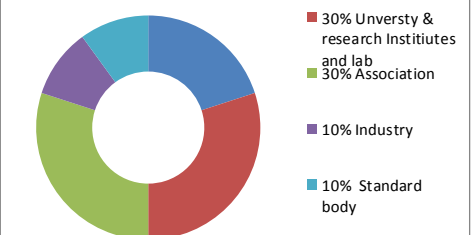
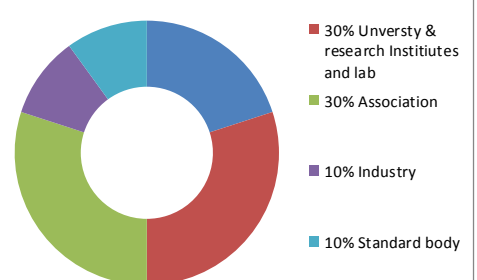
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|---|--------------------------------------------------|----------------------|
| 1 | Ministry of Agriculture                          | Chairperson          |
| 2 | Ethiopian Institute of Agricultural Research     | Member               |
| 3 | Ministry of Water and Irrigation                 | Member               |
| 4 | Ethiopian Society of Soil Science                | Member               |
| 5 | Ethiopian Crop Science Society                   | Member               |
| 6 | Ethiopian Biodiversity institute                 | Member               |
| 7 | Environment forest and climate change Commission | Member               |
| 8 | Hawassa university Department of plant science   | Member               |
| 9 | Ethiopian Standards Agency                       | Member and Secretary |

**TC 119 Vertical farming****Scope:** Standardization in the field of dry land farming , for good agricultural practices, code of practices for vertical farming her financial services

|    |                                                            |                      |
|----|------------------------------------------------------------|----------------------|
| 1  | Ministry of Agriculture                                    | Chairperson          |
| 2  | Ethiopian Institute of Agricultural Research               | Member               |
| 3  | Ministry of Water and Irrigation                           | Member               |
| 4  | Ethiopian Society of Soil Science                          | Member               |
| 5  | Ethiopian Crop Science Society                             | Member               |
| 6  | Ethiopian Biodiversity institute                           | Member               |
| 7  | Environment forest and climate change Commission           | Member               |
| 8  | Trade computation and Consumers Protection Authority       | Member               |
| 9  | Ethiopian Investment Commission                            | Member               |
| 10 | Ethiopian Horticulture Producers and Exporters Association | Member               |
| 11 | Ethiopian Standards Agency                                 | Member and Secretary |

**TC 120 Food processing****Scope:** This scope covers standardization in the field of food processing , including definition of terms, sampling safety requirements and code of practices.

|    |                                                                   |                      |
|----|-------------------------------------------------------------------|----------------------|
| 1  | Ministry of Agriculture                                           | Chairperson          |
| 2  | Ethiopian Institute of Agricultural Research                      | Member               |
| 3  | Ethiopian Grain Trade Enterprise                                  | Member               |
| 4  | Ethiopian Public Health Institute                                 | Member               |
| 5  | Ethiopian Crop Science Society                                    | Member               |
| 6  | Ethiopian Pulses and Oil Seeds Exporters Association              | Member               |
| 7  | Ethiopian Food and Medicine Control Authority                     | Member               |
| 8  | Ethiopian Conformity Assessment Enterprise                        | Member               |
| 9  | Food, Beverage and Pharmaceuticals Industry Development Institute | Member               |
| 10 | Ethiopian Standards Agency                                        | Member and Secretary |

**TC 117 Sector****TC 118 Sector****TC 119 Sector****TC 120 Sector**

**TC 121 Nutrition and foods for special dietary use.**

**Scope:** Standardization of specification, method of sampling and test, rules for packaging relating to food and Nutrition of special dietary use including fortification

|    |                                                                |                      |
|----|----------------------------------------------------------------|----------------------|
| 1  | Ministry of Health                                             | Chair person         |
| 2  | Ethiopian Food and Medicine Control Authority                  | Member               |
| 3  | Ethiopia Conformity Assessment Enterprise                      | Member               |
| 4  | Bless Agrifood Laboratory Service PLC                          | Member               |
| 5  | Ethiopian Public Health Institute                              | Member               |
| 6  | Ethiopian food science and nutrition association               | Member               |
| 7  | FAFA food PLC                                                  | Member               |
| 8  | Health food factory                                            | Member               |
| 9  | Addis Ababa University - Center for Food Science and Nutrition | Member               |
| 10 | Ethiopian food and beverage industry development institute     | Member               |
| 11 | Ethiopian Standards Agency                                     | Member and Secretary |

**TC 122 Horticulture**

**Scope:** standardization of terminology, specifications, classifications and, packaging, relating to horticulture.

|    |                                                        |                      |
|----|--------------------------------------------------------|----------------------|
| 1  | Ethiopian Investement Commission                       | Chair person         |
| 2  | Ministry of Agriculture                                | Member               |
| 3  | Environment forest and climate change Commission       | Member               |
| 4  | Horizon plantation PLC                                 | Member               |
| 5  | Ethiopian Institute of Agricultural Research           | Member               |
| 6  | Cooperative Agency                                     | Member               |
| 7  | Ethiopian Horticulture Producers Exporters Association | Member               |
| 8  | Sher Ethiopia PLC                                      | Member               |
| 9  | Dugda flowri culture PLC                               | Member               |
| 10 | Ethiopian standards agency                             | Member and Secretary |

**TC 123 Honey bee farming**

**scope:** Standardization of terms, specifications, good practice in hany bee farming that includes handling transportation, storage, packing, labeling, sampling, .

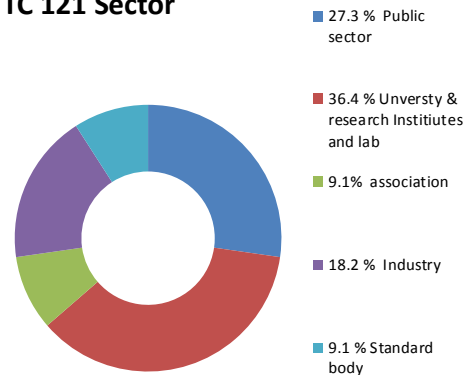
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|---|------------------------------------------------------------------------------------|----------------------|
| 1 | Ministry Agriculture                                                               | Chair person         |
| 2 | Ethiopian Bee keepers Association (EBA)                                            | Member               |
| 3 | Ethiopian Institute of Agricultural Research – Holeta Agricultural Research Center | Member               |
| 4 | Ethiopian Honey and Beeswax Producers and Exporters Association                    | Member               |
| 5 | Ethiopian Meat and Dairy Industry Development Institute                            | Member               |
| 6 | Mekle University<br>Hawassa University                                             | Member               |
| 7 | Jima University                                                                    | Member               |
| 8 | Ethiopian Standards Agency                                                         | Member and Secretary |

**TC 124 Animal production**

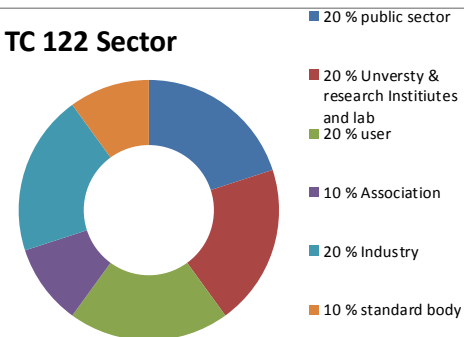
**scope:** standardization of terminology, specifications, classifications in the field of animal production .

|    |                                              |                      |
|----|----------------------------------------------|----------------------|
| 1  | Ministry of Agriculture                      | Chairperson          |
| 2  | Ethiopian Society of Animal Production       | Member               |
| 3  | Ethiopian Institute of Agricultural Research | Member               |
| 4  | Artificial Insemination Center of Kaliti     | Member               |
| 5  | ELFORA Agro Industries PLC                   | Member               |
| 6  | Addis Ababa Abattoirs Enterprise             | Member               |
| 7  | Ethiopian Animal Feed Industry Association   | Member               |
| 8  | Ethiopian Animal Health Research Center      | Member               |
| 9  | Ethiopian Public Health Institute            | Member               |
| 10 | Ethiopian Standards Agency                   | Member and Secretary |

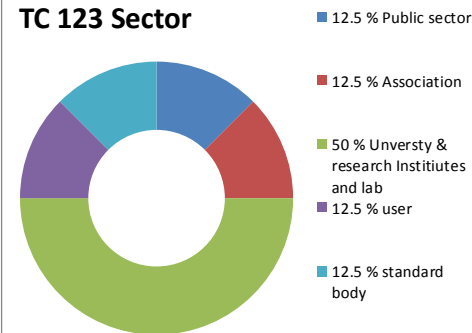
**TC 121 Sector**



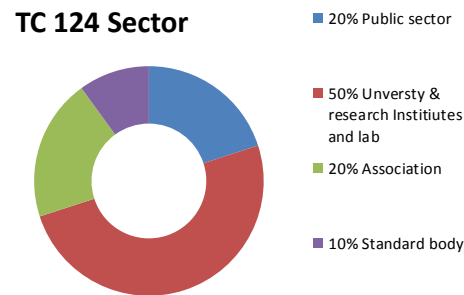
**TC 122 Sector**



**TC 123 Sector**



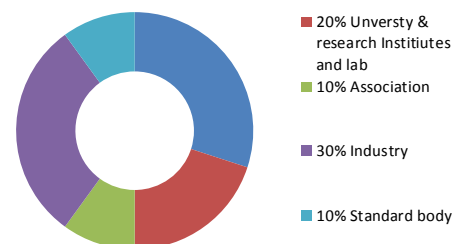
**TC 124 Sector**



**TC 125 Drinking water**

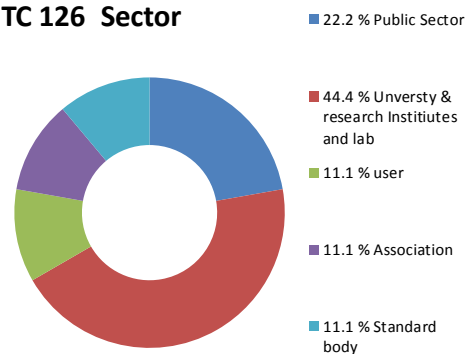
**Scope:** Standardization of a framework for the definition and measurement of service activities relating to drinking water supply systems and wastewater systems.

|    |                                                   |                      |
|----|---------------------------------------------------|----------------------|
| 1  | Ethiopian Food and Medicine Control Authority     | Chairperson          |
| 2  | Environment, Forest and Climate Change Commission | Member               |
| 3  | Ministry of Water and Irrigation                  | Member               |
| 4  | Ethiopian Public Health Institute                 | Member               |
| 5  | Chemical Society of Ethiopia                      | Member               |
| 6  | Ambo Mineral Water Factory                        | Member               |
| 7  | Ethiopian Conformity Assessment Enterprise        | Member               |
| 8  | YES brands Bottled Water PLC                      | Member               |
| 9  | Abyssinia Food & Beverage PLC                     | Member               |
| 10 | Ethiopian Standards Agency                        | Member and Secretary |

**TC 125 Sector****TC 126 Microbiology**

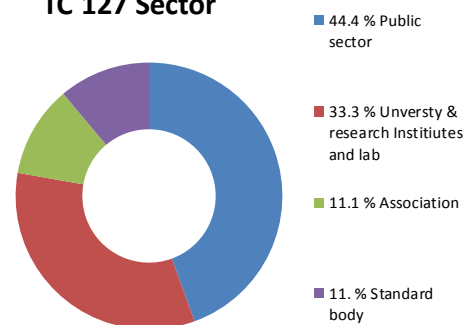
**Scope:** Standardization in the field of food microbiology is that includes vocabulary, general directives, and requirements.

|   |                                                                |                      |
|---|----------------------------------------------------------------|----------------------|
| 1 | Ethiopia Conformity Assessment Enterprise                      | Chair person         |
| 2 | Bless Agrifood Laboratory Service PLC                          | Member               |
| 3 | Ethiopian Public Health Institute                              | Member               |
| 4 | Addis Abeba university Biology department                      | Member               |
| 5 | Biological Society of Ethiopia                                 | Member               |
| 6 | Addis Ababa University - Center for Food Science and Nutrition | Member               |
| 7 | Ethiopian Food and Medicine Control Authority                  | Member               |
| 8 | Ethiopian food and beverage industry development institute     | Member               |
| 9 | Ethiopian Standards Agency                                     | Member and Secretary |

**TC 126 Sector****TC 127 General method of testing & Sensory analysis**

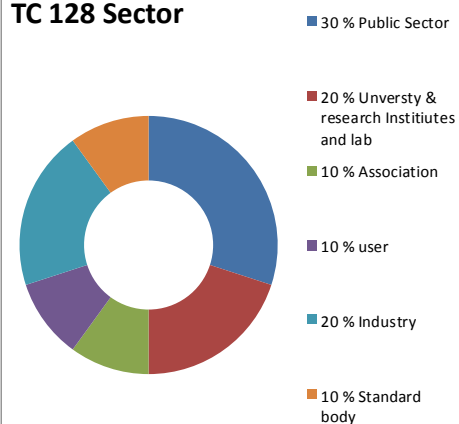
**Scope:** Standardization in the field of food sensory analysis that includes vocabulary, general directives, selection and training of sensory analysis assessors and the methodology to carry on the different tests

|   |                                                                |                    |
|---|----------------------------------------------------------------|--------------------|
| 1 | Ethiopian Public Health Institute                              | Chairperson        |
| 2 | Ethiopian Food and Medicine Control Authority                  | Member             |
| 3 | Addis Ababa University - Center for Food Science and Nutrition | Member             |
| 4 | Biological Society of Ethiopia                                 | Member             |
| 5 | Ethiopian Conformity Assessment Enterprise                     | Member             |
| 6 | ECX                                                            | Member             |
| 7 | Bless Agrifood Service Laboratory PLC                          | Member             |
| 8 | FAFA Foods S.C                                                 | Member             |
| 9 | Ethiopian Standards Agency                                     | Member & Secretary |

**TC 127 Sector****TC 128 Irrigation**

**Scope:** Standardization of irrigation systems and other related areas .

|    |                                                                                      |                    |
|----|--------------------------------------------------------------------------------------|--------------------|
| 1  | Ministry of Agriculture                                                              | Chairperson        |
| 2  | Addis Ababab Science and Technology univeristy                                       | Member             |
| 3  | Addis Ababa University -Institute of Technology-Department of Mechanical Engineering | Member             |
| 4  | Ethiopian Society of Mechanical Engineers                                            | Member             |
| 5  | Agricultural Equipments and Technical Service Enterprise                             | Member             |
| 6  | METEC -Adama Agricultural Equipment Industry                                         | Member             |
| 7  | Techtra Engineering P.L.C.                                                           | Member             |
| 8  | Ministry of Urban Development and Construction                                       | Member             |
| 9  | Ministry of Water and Irrigation                                                     | Member             |
| 10 | Ethiopian standards Agency                                                           | Member & Secretary |

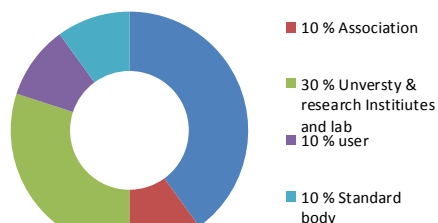
**TC 128 Sector**

### TC 129 Particle characterization including sieving

**Scope:** Standardization pertaining to equipment and methods used in size classification of particulate material in solid or liquid state

|    |                                                     |                      |
|----|-----------------------------------------------------|----------------------|
| 1  | Environment, Forest and Climate Change Commission   | Chairperson          |
| 2  | Ethiopian Food and Medicine Control Authority       | Member               |
| 3  | Chemical Society of Ethiopia                        | Member               |
| 4  | Addis Ababa University- Department of Chemistry     | Member               |
| 5  | Addis ababa Science and technology univeristy       | Member               |
| 6  | Ethiopian Conformity Assessment Enterprise          | Member               |
| 7  | Trade Competition and Consumer Protection Authority | Member               |
| 8  | Federal Ministry of Labor & Social Affairs          | Member               |
| 9  | Ministry of Trade and Industry                      | Member               |
| 10 | Ethiopian Standards Agency                          | Member and Secretary |

### TC 129 Sector

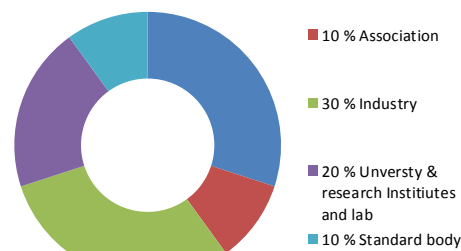


### TC 130 Veterinary drug residues and antimicrobial resistance in food

**Scope:** Standardization in the field Veterinary drug residues and antimicrobial resistance in foo that includes vocabulary, general directives, and requirements.

|    |                                                                         |                    |
|----|-------------------------------------------------------------------------|--------------------|
| 1  | Ethiopian Veterinary Drug and Feed Administration and Control Authority | Chairperson        |
| 2  | Ethiopian Meat and Dairy Industry Development Institute                 | Member             |
| 3  | Ethiopian Veterinary Association                                        | Member             |
| 4  | ELFORA Agro Industries PLC                                              | Member             |
| 5  | Genesis farms                                                           | Member             |
| 6  | Alema poultry                                                           | Member             |
| 7  | Ethiopian Food and Medicine Control Authority                           | Member             |
| 8  | Ethiopia Conformity Assessment Enterprise                               | Member             |
| 9  | Bless Agrifood Laboratory Service PLC                                   | Member             |
| 10 | Ethiopian Standards Agency                                              | Member & Secretary |

### TC 130 Sector

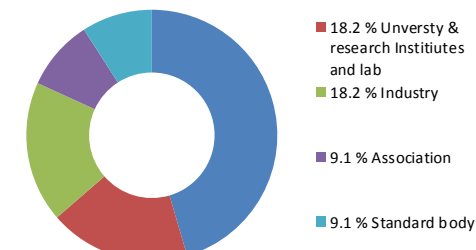


### TC 131 Forestry seed

**Scope:** Standardization in the field of forestry and related areas.

|    |                                                                                                           |                    |
|----|-----------------------------------------------------------------------------------------------------------|--------------------|
| 1  | Environment, Forests and Climate Change Commission                                                        | Chairperson        |
| 2  | Ethiopian Environment and Forest Research Institute (EEFRI)                                               | Member             |
| 3  | Ethiopia Biodiversity Institute (EBI)                                                                     | Member             |
| 4  | Oromiya Forest and Wildlife Enterprise                                                                    | Member             |
| 5  | Amhara Forest Enterprise (AFE)                                                                            | Member             |
| 6  | Eden Field Agri-Seed Enterprise                                                                           | Member             |
| 7  | Amhara National Regional State Plant Seed and Other Agri. Inputs Quality Control and Quarantine Authority | Member             |
| 8  | New Abyssinia Essential Tree Seeds and General Business PLC                                               | Member             |
| 9  | Ministry of Agriculture (MoA-NR)                                                                          | Member             |
| 10 | Ethiopian Forestry Society (EFS)                                                                          | Member             |
| 11 | Ethiopia Standards Agency (ESA)                                                                           | Member & Secretary |

### TC 131 Sector

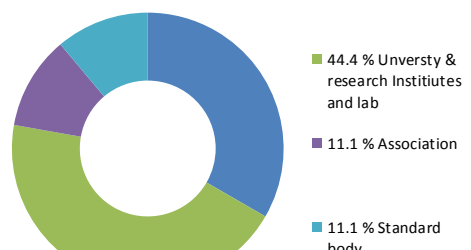


### TC 132 Biotechnology

**Scope:** Standardization in the field of biotechnology processes that includes the following topics: Terms and definitions; biobanks and bioreources; nalytical methods;bioprocessing; data processing including annotation, analysis, validation, comparability and integration; metrology.

|   |                                                     |                    |
|---|-----------------------------------------------------|--------------------|
| 1 | Biotechnology institute                             | Chair person       |
|   | Ethiopian livestock development research institiute | Member             |
| 2 | Biotechnology institute                             | Member             |
| 3 | AAU biology department                              | Member             |
| 4 | Biological Society of Ethiopia                      | Member             |
| 5 | Ethiopian Public Health Institute                   | Member             |
| 6 | Ethiopian Institute of Agricultural Research        | Member             |
| 7 | Biodiversity institute                              | Member             |
| 8 | Environment , forest and climate changes Commission | memebrs            |
| 9 | Ethiopian Standards Agency                          | Member & Secretary |

### TC 132 Sector

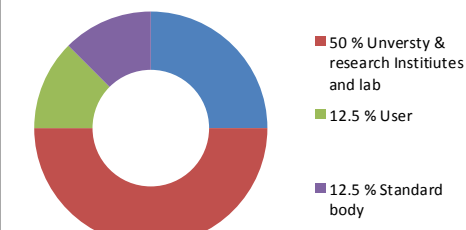


### TC 133 Ceramic tile

**Scope:** Standardization of ceramic tiles generally used for floor coverings and wall facings.

|   |                                                                                |                      |
|---|--------------------------------------------------------------------------------|----------------------|
| 1 | Ministry of Urban development and Construction                                 | Chairperson          |
| 2 | Addis Ababa university Institute of Technology Department of Civil Engineering | Member               |
| 3 | Construction Project Management Institute                                      | Member               |
| 4 | Addis Ababa Bottle and Glass S.C                                               | Member               |
| 5 | Ethiopian Institute of Architecture, Building Construction (EiABC)             | Member               |
| 6 | Ethiopian Conformity Assessment Enterprise                                     | Member               |
| 7 | Chemical and Construction Input Industry Development Institute                 | Member               |
| 8 | Ethiopian Standards Agency                                                     | Member and Secretary |

### TC 133 Sector

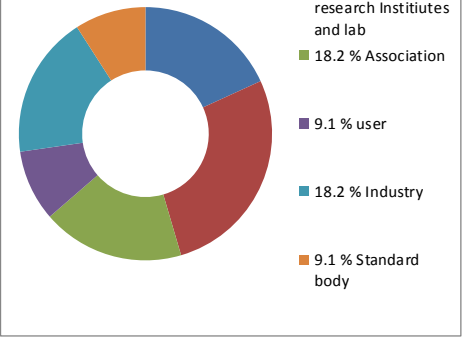


### TC 134 Construction management system

**Scope:** Standardization of construction management system, designing code of practice .

|    |                                                                                |                      |
|----|--------------------------------------------------------------------------------|----------------------|
| 1  | Ministry of urban Development and Construction                                 | Chairperson          |
| 2  | Addis Ababa University Institute of Technology Department of Civil Engineering | Member               |
| 3  | Ethiopian Institute of Architecture and Building (EiABC) Construction          | Member               |
| 4  | Integrated project Coordination Agency                                         |                      |
| 5  | Management Institute                                                           | Member               |
| 6  | Ethiopian Civil Engineers Association                                          | Member               |
| 7  | Ethiopian Consulting Engineers and Architects Association                      | Member               |
| 8  | Construction Design S.C                                                        | Member               |
| 9  | Ethiopian Conformity Assessment Enterprise                                     | Member               |
| 10 | F.D.R.E Metal and engineering Corporation                                      | Member               |
| 11 | Kality Metal Producing Factory                                                 | Member               |
| 12 | Ethiopian Standards Agency                                                     | Member and Secretary |

### TC 134 Sector

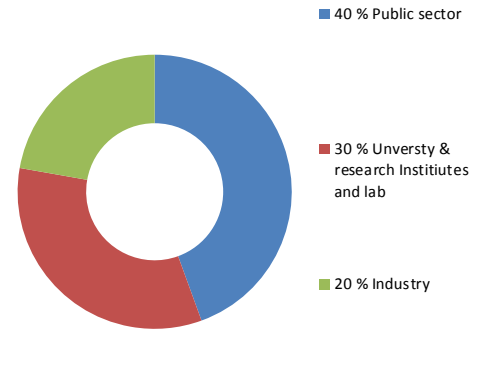


### TC 135 Steel and aluminium structures

Standardization in the field of structural use of steel and alloys of aluminium as applied in building, civil engineering and related structures. The standards shall comprise the requirements for the design, fabrication and erection of steel and aluminium structures, together with materials, structural components and connections.

|    |                                                                                |                      |
|----|--------------------------------------------------------------------------------|----------------------|
| 1  | Ministry of Urban development and Construction                                 | Chairperson          |
| 2  | Ethiopian Metals Industry Development Institute                                | Member               |
| 3  | Construction Project Management Institute                                      | Member               |
| 4  | Kality Metal Products Factory                                                  | Member               |
| 5  | B and C Aluminum PLC                                                           | Member               |
| 6  | Addis Ababa University Institute of Technology Department of Civil Engineering | Member               |
| 7  | Ethiopian Institute of Architecture and Building construction(EiABC)           | Member               |
| 8  | Ministry of Trade and Industry                                                 | Member               |
| 9  | Ethiopian Conformity Assessment Enterprise                                     | Member               |
| 10 | Ethiopian Standards Agency                                                     | Member and Secretary |

### TC 135 Sector

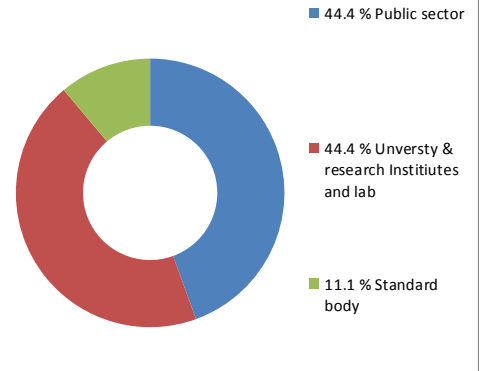


### TC 136 Bases for design of structures

**Scope:** Standardization of the bases for design of structures irrespective of the material of construction including especially terminology and symbols, load, forces and other actions and limitations of deformations. Consideration and coordination of basic reliability requirements concerning the structures as a whole, including consideration of structures made of particular materials (steel, stone, concrete, wood, etc.)

|   |                                                                                |                      |
|---|--------------------------------------------------------------------------------|----------------------|
| 1 | Ministry of Urban development and Construction                                 | Chairperson          |
| 2 | Ethiopian Metals Industry Development Institute                                | Member               |
| 3 | Ethiopian Metals Industry Development Institute                                | Member               |
| 4 | Construction Project Management Institute                                      | Member               |
| 5 | Addis Ababa University Institute of Technology Department of Civil Engineering | Member               |
| 6 | Ethiopian Institute of Architecture and Building Construction(EiABC)           | Member               |
| 7 | Ministry of Trade and Industry                                                 | Member               |
| 8 | Ethiopian Conformity Assessment Enterprise                                     | Member               |
| 9 | Ethiopian Standards Agency                                                     | Member and Secretary |

### TC 136 Sector

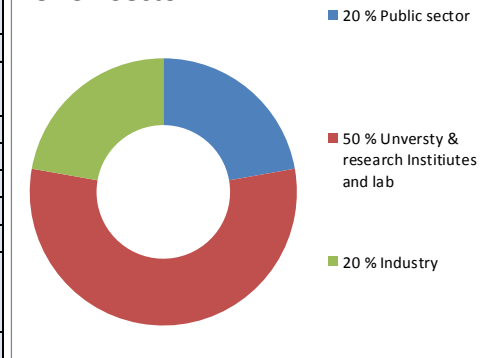


### TC 137 Roof tiles

**Scope:** Standardization of different types of roof tiles clay cement, fiber stone etc including terms and defination systems, test methods sampling and code of practices.

|    |                                                                                |                      |
|----|--------------------------------------------------------------------------------|----------------------|
| 1  | Ministry of Urban development and Construction                                 | Chairperson          |
| 2  | Addis Ababa university Institute of Technology Department of Civil Engineering | Member               |
| 3  | Construction Project Management Institute                                      | Member               |
| 4  | Ethiopian Earthen Construction Technology Institute                            |                      |
| 5  | Addis ababa science and technology Unviresty                                   | Member               |
| 6  | Trade Competition and Consumers' Protection Authority                          | Member               |
| 7  | Ethiopian Conformity Assessment Enterprise                                     | Member               |
| 8  | Ethiopian Metal and Engineering Corporation                                    | Member               |
| 9  | Chemical and Construction Input Industry Development Institute                 | Member               |
| 10 | Ethiopian Standards Agency                                                     | Member and Secretary |

### TC 137 Sector

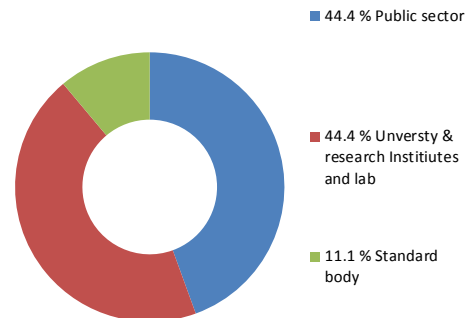


### TC 138 Buildings and civil engineering works

**Scope:** Standardization in the field of buildings and civil engineering works, of: •general terminology; organization of information in the processes of design, manufacture and construction; general geometric requirements for buildings, building elements and components including modular coordination and its basic principles, general rules for joints, tolerances and fits, performance and test standards for sealants; general rules for other performance requirements, including functional and user requirements related to service life, sustainability, accessibility and usability.

|   |                                                                                          |                      |
|---|------------------------------------------------------------------------------------------|----------------------|
| 1 | Ministry of Urban development and Construction                                           | Chairperson          |
| 2 | Addis Ababa university science and technology Univeristy Department of Civil Engineering | Member               |
| 3 | Ethiopian Metals Industry Development Institute                                          | Member               |
| 4 | Construction Project Management Institute                                                | Member               |
| 5 | Addis Ababa University Institute of Technology Department of Civil Engineering           | Member               |
| 6 | Ethiopian Institute of Architecture and Building Construction(EIABC)                     | Member               |
| 7 | Ministry of Trade and Industry                                                           | Member               |
| 8 | Ethiopian Conformity Assessment Enterprise                                               | Member               |
| 9 | Ethiopian Standards Agency                                                               | Member and Secretary |

### TC 138 Sector

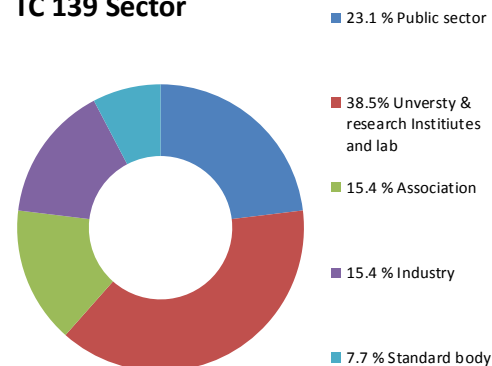


### TC 139 Geosynthetics

**Scope:** Standardization of all geosynthetic products including geotextlles, geomembranes, geocomposite clay liners and other geosynthetic related products

|    |                                                                                |                      |
|----|--------------------------------------------------------------------------------|----------------------|
| 1  | Ministry of Urban development and Construction                                 | Chairperson          |
| 2  | Addis Ababa university Institute of Technology Department of Civil Engineering | Member               |
| 3  | Construction Project Management Institute                                      | Member               |
| 4  | Association of civil engenering                                                | Member               |
| 5  | Ethiopian Metal and Engineering Corporation                                    | Member               |
| 6  | Federal Ministry of Labor & Social Affairs                                     | Member               |
| 7  | Kality Construction Materials Production Factory                               | Member               |
| 8  | Ethiopian Conformity Assessment Enterprise                                     | Member               |
| 9  | Ethiopian Textile Industry Development Institute                               | Member               |
| 10 | Ethiopian Textile and Garment Manufacturers Association                        | Member               |
| 11 | Chemical and Construction Input Industry Development Institute                 | Member               |
| 12 | Ethiopian Standards Agency                                                     | Member and Secretary |

### TC 139 Sector



### TC 140 Building construction machinery and equipment

**Scope:** Standardization in the field of machines and equipment used on construction sites, including aggregate processing, road construction and maintenance equipment concerning nomenclature, application, classification, ratings, technical requirements and test methods, safety requirements, operation and maintenance manuals.

|   |                                                                                      |                      |
|---|--------------------------------------------------------------------------------------|----------------------|
| 1 | Ministry of Urban development and Construction                                       | Chairperson          |
| 2 | Construction Project Management Institute                                            | Member               |
| 3 | Addis Ababa University -Institute of Technology-Department of Mechanical Engineering | Member               |
| 4 | Ethiopian Society of Mechanical Engineers                                            | Member               |
| 5 | Agricultural Equipments and Technical Service Enterprise                             | Member               |
| 6 | METEC -Adama Agricultural Equipment Industry                                         | Member               |
| 7 | Techtra Engineering P.L.C.                                                           | Member               |
| 8 | Ministry of Water Irregation and Electricity                                         | Member               |
| 9 | Ethiopian Standards Agency                                                           | Member and Secretary |

### TC 140 Sector



### SC 140-1 Machinery and equipment for concrete work

Standardization of machinernary and equipment for concreat work

### TC 141 Timber and Wood-based panels

**Scope:** Standardization of round, sawn and processed timber, and timber materials in and for use in all applications, including terminology, specifications and test methods.

Excluded: those applications of timber as covered by other TC

|       |                                                                                |                      |
|-------|--------------------------------------------------------------------------------|----------------------|
| 1     | Ministry of urban Development and and Construction                             | Chairperson          |
| 2     | Addis Ababa University Institute of Technology Department of Civil Engineering | Member               |
| 3     | Ethiopian Institute of Architecture and Building Construction (EiABC)          | Member               |
| 4     | Ethiopian Civil Engineers Association                                          | Member               |
| 5     | Ethiopian Consulting Engineers and Architects Association                      | Member               |
| 6     | Construction Design S.C                                                        | Member               |
| 7     | Ethiopian Conformity Assessment Enterprise                                     | Member               |
| 8     | F.D.R.E Metal and engineering Corporation                                      | Member               |
| 9     | Kality Metal Producing Factory                                                 | Member               |
| 10    | Ethiopian Standards Agency                                                     | Member and Secretary |
| SC    | <b>wood and wood-based products</b>                                            |                      |
| 141-1 |                                                                                |                      |

Standardization of wood and wood based products as well as lignified materials other than wood that originate from different categories of wood sources and are derived from mechanical, chemical and biological processing for material and energy purposes.

### TC 142 Building Environment design

**Scope:** Standardization in the design of new buildings and retrofit of existing buildings for acceptable indoor environment and practicable energy conservation and efficiency. Building environment design addresses the technical building systems and related architectural aspects, and includes the related design processes, design methods, design outcomes, and design-phase building commissioning. Indoor environment includes air quality, and thermal, acoustic, and visual factors.

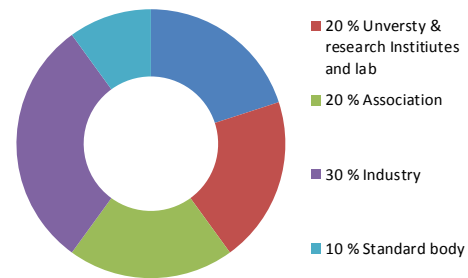
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|---|--------------------------------------------------------------------------------|----------------------|
| 1 | Ministry of Urban development and Construction                                 | Chairperson          |
| 2 | Construction Design S.C                                                        | Member               |
| 3 | Ethiopian Metals Industry Development Institute                                | Member               |
| 4 | Construction Project Management Institute                                      | Member               |
| 5 | Addis Ababa University Institute of Technology Department of Civil Engineering | Member               |
| 6 | Ethiopian Institute of Architecture and Building Construction(EiABC)           | Member               |
| 7 | Ministry of Trade and Industry                                                 | Member               |
| 8 | Ethiopian Conformity Assessment Enterprise                                     | Member               |
| 9 | Ethiopian Standards Agency                                                     | Member and Secretary |

### TC 143 Transmitting equipment for radiocommunication

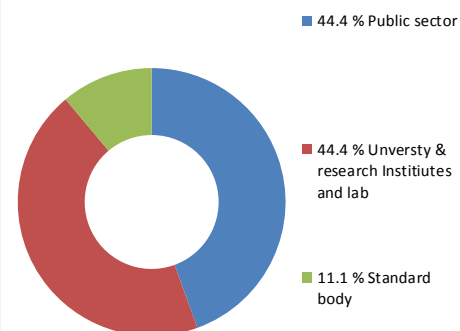
**Scope:** Standardization of products, definitions, symbols etc for equipment for radiocommunication

|    |                                                                                                    |                      |
|----|----------------------------------------------------------------------------------------------------|----------------------|
| 1  | Ministry of Communication & Information Technology                                                 | Chairperson          |
| 2  | Addis Ababa University -Institute of Technology -Department of Electrical and Computer Engineering | Member               |
| 3  | Ethio Telecom                                                                                      | Member               |
| 4  | Ethiopian Electric Power Corporation                                                               | Member               |
| 5  | SNAP Computer                                                                                      | Member               |
| 6  | METEC-Hi-Tech Engineering Industry                                                                 | Member               |
| 7  | LG Company                                                                                         | Member               |
| 8  | SONY Company                                                                                       | Member               |
| 9  | SAMSUNG Company                                                                                    | Member               |
| 10 | Ethiopian Standards Agency                                                                         | Member and Secretary |

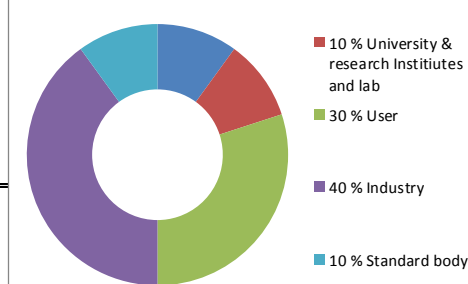
### TC 141 Sector



### TC 142 Sector



### TC 143 Sector



### TC 144 Audio, video and multimedia systems and equipments

**Scope:** To prepare international publications in the field of audio, video and multimedia systems and equipment. These publications mainly include specification of the performance, methods of measurement for consumer and professional equipment and their application in systems and its interoperability with other systems or equipment.  
 Note: Multimedia is the integration of any form of audio, video, graphics, data and telecommunication and integration includes the production, storage, processing, transmission, display and reproduction of such information.

|   |                                             |                    |
|---|---------------------------------------------|--------------------|
| 1 | Ethiopian Broadcasting Authority            | Chairperson        |
| 2 | Ministry of Culture and Tourism             | Member             |
| 3 | Ethiopian Broadcasting Corporation          | Member             |
| 4 | AAU. School of communication and Journalism | Member             |
| 5 | Ethiopian Film Producers Association        | Member             |
| 6 | Ethiopian Conformity Assessment Enterprise  | Member             |
| 7 | SIGMA Electro Plc                           | Member             |
| 8 | Ethiopian Standards agency                  | Member & secretary |

### TC 145: Automation Systems and integration

**Scope:** Standardization in the field of automation systems and their integration for design, sourcing, manufacturing, production and delivery, support, maintenance and disposal of products and their associated services. Areas of standardization include information systems, automation and control systems and integration technologies.  
 Note: There will be active collaboration with the relevant technical committees responsible for areas such as machines, manufacturing resources and facilities, robotics, electrical and electronic equipment, PLC for general application, quality management, industrial safety, information technologies, multi-media capabilities, and multi-modal communication networks

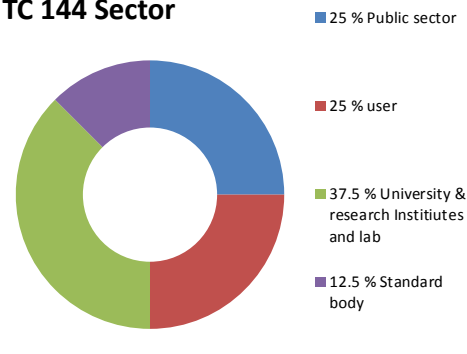
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|----|--------------------------------------------------------|--------------------|
| 1  | Ministry of Communication and Information Technology   | Chairperson        |
| 2  | Information Security Agency                            | Member             |
| 3  | Science and Technology Information Center              | Member             |
| 4  | Ethio telecom                                          | Member             |
| 5  | Eth switch                                             | Member             |
| 6  | Kifiya financial services                              | Member             |
| 7  | Metal and engineering industry development institute   | Member             |
| 8  | Metals and engineering corporation                     | Member             |
| 9  | Ministry of Industry and Trade                         | Member             |
| 10 | AAU-AAIT-school of electrical and Computer Engineering | Member             |
| 11 | Ethiopian Standards Agency                             | Member & Secretary |

### TC 146 Solar & wind

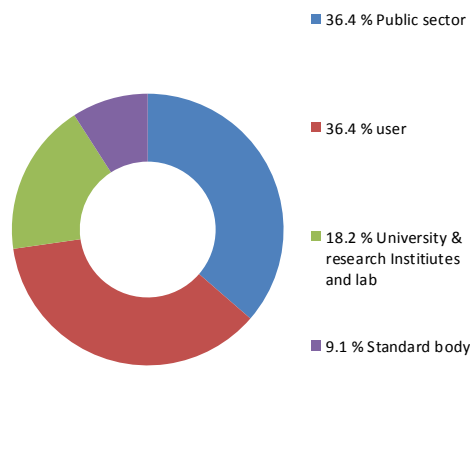
**Scope:** Standardization in the field of solar energy utilization in space and water heating, cooling, industrial process heating and air conditioning.

|    |                                                       |                      |
|----|-------------------------------------------------------|----------------------|
| 1  | Ethiopian Energy Authority                            | Chairperson          |
| 2  | Universal Electronics Company                         | Member               |
| 3  | Ethiopian Electric utility                            | Member               |
| 4  | Federal Micro and Small Enterprise Development Agency | Member               |
| 5  | Ethiopian Electric Power                              | Member               |
| 6  | Solar Energy Foundation (Importer)                    | Member               |
| 7  | Ethiopian Conformity Assessment Enterprise            | Member               |
| 8  | Ministry of water and irrigation                      | Member               |
| 9  | Lighting Global                                       | Member               |
| 10 | Ministry of Trade                                     | Member               |
| 11 | LYDETCO(Importer)                                     | Member               |
| 12 | GIZ                                                   | Member               |
| 13 | Ethiopian Electric Power                              | Member               |
| 14 | Ethiopian Electric Utility                            | Member               |
| 15 | Ethiopian Standards Agency                            | Member and Secretary |

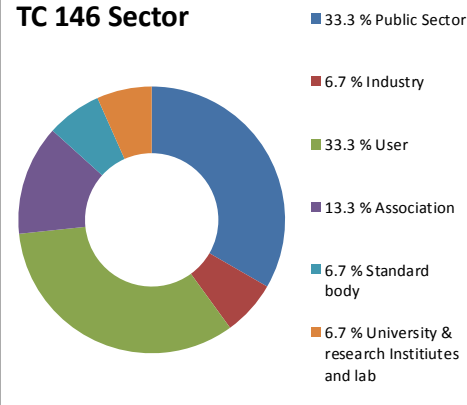
### TC 144 Sector



### TC 145 Sector



### TC 146 Sector



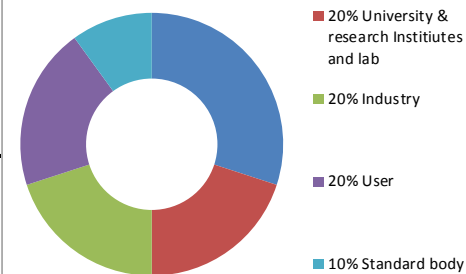


### TC 147 Battery in General

**Scope:** Standardization of batteries for different purposes.

|                                                                                                                                                                                                                                                                                                     |                                                                                                     |                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------|
| 1                                                                                                                                                                                                                                                                                                   | Ethiopian Energy Authority                                                                          | Chairperson          |
| 2                                                                                                                                                                                                                                                                                                   | Addis Abeba University - Institute of Technology -Department of Electrical and Computer Engineering | Member               |
| 3                                                                                                                                                                                                                                                                                                   | Universal Electronics Company                                                                       | Member               |
| 4                                                                                                                                                                                                                                                                                                   | Ethiopian Electric utility                                                                          | Member               |
| 5                                                                                                                                                                                                                                                                                                   | Ethiopian Electric Power                                                                            | Member               |
| 6                                                                                                                                                                                                                                                                                                   | Ethiopian Conformity Assessment Enterprise                                                          | Member               |
| 7                                                                                                                                                                                                                                                                                                   | METEC-Power Engineering Industry                                                                    | Member               |
| 8                                                                                                                                                                                                                                                                                                   | DOLCHE Electro-mechanical P.L.C                                                                     | Member               |
| 9                                                                                                                                                                                                                                                                                                   | SIGMA Electro-mechanical P.L.C                                                                      | Member               |
| 10                                                                                                                                                                                                                                                                                                  | Ethiopian Standards Agency                                                                          | Member and Secretary |
| SC 147-1                                                                                                                                                                                                                                                                                            | <b>Primary cells and batteries</b>                                                                  |                      |
| Standardization of primary cells and batteries, particularly those relating to specifications, dimensions, performance and guidance on safety matters.                                                                                                                                              |                                                                                                     |                      |
| SC 147-2                                                                                                                                                                                                                                                                                            | <b>Secondary cells and batteries</b>                                                                |                      |
| Standardization of secondary cells and batteries related to product (dimension and performance), safety (including marking and labelling), testing, and safe application (installation, maintenance, operation) irrespective of type or application or configuration (hybrid, stand alone, module). |                                                                                                     |                      |

### TC 147 Sector

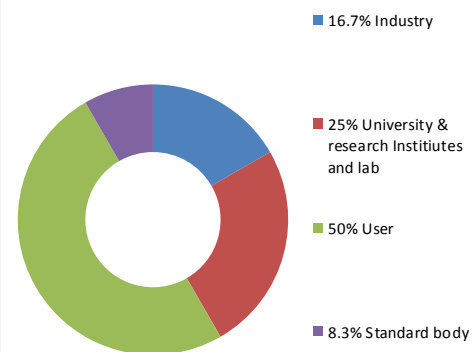


### TC 148 Electromechanical Components

**Scope:** Standardization of different electromechanical components which are not covered by other TCs.

|    |                                                                                                     |                      |
|----|-----------------------------------------------------------------------------------------------------|----------------------|
| 1  | METEC-Power Engineering Industry                                                                    | Chairperson          |
| 2  | AASTU Electromechanical Department                                                                  | Member               |
| 3  | SIGMA Electro-mechanical P.L.C                                                                      | Member               |
| 4  | DOLCHE Electro-mechanical P.L.C                                                                     | Member               |
| 5  | Federal Micro and Small Enterprise Development Agency                                               | Member               |
| 6  | Fortschritt Electro - Mechanical Services PLC                                                       | Member               |
| 7  | MIDROC energy house electro mechanical services PLC                                                 | Member               |
| 8  | GETA Electromechanical Manufacturing & Contracting PLC                                              | Member               |
| 9  | Addis Abeba University - Institute of Technology -Department of Electrical and Computer Engineering | Member               |
| 10 | Ethiopian Conformity Assessment Enterprise                                                          | Member               |
| 11 | METEC-Hi-Tech Engineering Industry                                                                  | Member               |
| 12 | Ethiopian Standards Agency                                                                          | Member and Secretary |

### TC 148 Sector

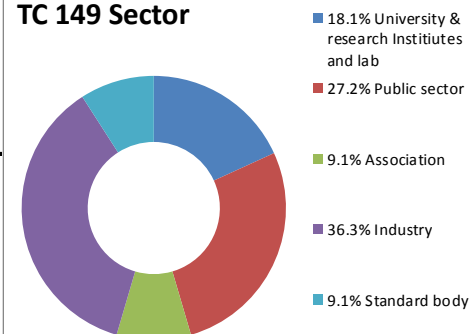


### TC 149 Super conductor

**Scope:** To prepare standards related to superconducting materials and devices.

|    |                                             |                      |
|----|---------------------------------------------|----------------------|
| 1  | AAIT Material Science Department            | Chairperson          |
| 2  | Ethiopian Electric utility                  | Member               |
| 3  | Ethiopian Energy Authority                  | Member               |
| 4  | Ethiopian Electric Power                    | Member               |
| 5  | Ethiopian Society of Electrical Engineering | Member               |
| 6  | BMET CABLE FACTORY                          | Member               |
| 7  | Ethiopian Conformity Assessment Enterprise  | Member               |
| 8  | EURO CABLE                                  | Member               |
| 9  | BELAYAB CABLE                               | Member               |
| 10 | METEC CABLE FACTORY                         | Member               |
| 11 | Ethiopian Standards Agency                  | Member and Secretary |

### TC 149 Sector



### TC 150 Electrical equipment in medical practice

**Scope:** Standardization of standards and other publications concerning electrical equipment, electrical systems and software used in healthcare and their effects on patients, operators, other persons and the environment.

**NOTE:** This scope includes items that are also within the scopes of other committees and will be addressed through cooperation. Attention will focus on safety and performance (e.g. radiation protection, data security, data integrity, data privacy and environmental aspects) and will contribute to regulatory frameworks. Healthcare includes medical practice as well as emergency medical services, homecare, and support of persons with disabilities in their daily lives (i.e. Ambient Assisted Living).

|    |                                                                 |                      |
|----|-----------------------------------------------------------------|----------------------|
| 1  | Ethiopian Public Health Institute                               | Chairperson          |
| 2  | Ethiopian Manufacturing Industry Association                    | Member               |
| 3  | Ethiopian National Metrology Institute                          | Member               |
| 4  | Ethiopian Radiation Protection Authority                        | Member               |
| 5  | Ethiopian Biomedical Engineering Association                    | Member               |
| 6  | Ethiopia Conformity Assessment Enterprise                       | Member               |
| 7  | Addis Ababa University- Medical Faculty, Tikur Anbessa Hospital | Member               |
| 8  | Ethiopian clinical Association                                  | Member               |
| 9  | Federal energy authority                                        | Member               |
| 10 | Ethiopian Standards Agency                                      | Member and Secretary |

### TC 151 Automatic Electric controller

**Scope:** To prepare standards related to inherent safety, to the operating characteristics where such are associated with applicational safety, and to the testing of automatic electrical control devices used in appliances and other apparatus, electrical and non-electrical, for household and similar purposes, but also extended to industrial purposes when no dedicated product standards exist, such as that for central heating, air conditioning, process heating building automation, etc., including the following:

1. Automatic electrical control devices, mechanically, electromechanically, electrically or electronically operated, responsive to or controlling parameters such as temperature, pressure, passage of time, humidity, light, electrostatic effect, flow or liquid level.
2. Automatic electrical control devices serving the starting of small motors that are used principally in appliances and apparatus for household and similar purposes. Such control devices may be built into or be separate from the motor.
3. Non-automatic control devices when such are associated with automatic control devices.

|   |                                                                                |                      |
|---|--------------------------------------------------------------------------------|----------------------|
| 1 | Ethiopian Electric Power                                                       | Chairperson          |
| 2 | Ethiopian Energy Authority                                                     | Member               |
| 3 | SIGMA Electro Plc                                                              | Member               |
| 4 | Ministry of water and Irrigation                                               | Member               |
| 5 | AAIT School of Mechanical and Industrial Engineering (Mechatronics Department) | Member               |
| 6 | Ethiopian Society of Electrical Engineering                                    | Member               |
| 7 | Ethiopia Conformity Assessment Enterprise                                      | Member               |
| 8 | Ethiopian Standards Agency                                                     | Member and Secretary |

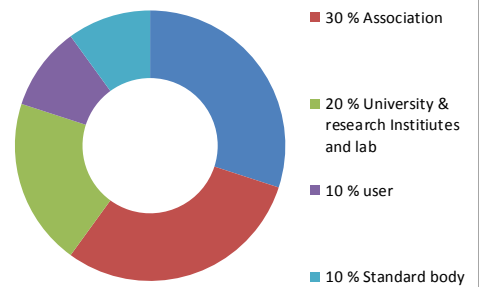
### TC 152(Lift & Scalator)

**Scope:** Standardization of all aspects, including safety, of lifts, service lifts, escalators, passenger conveyors and similar apparatus.

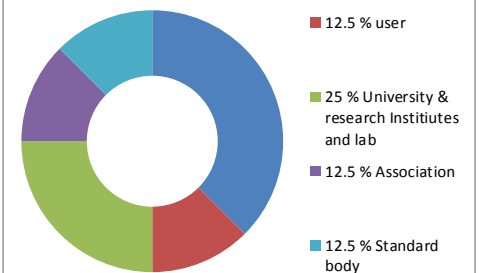
Excluded : continuous mechanical handling equipment and lifts in mines.

|    |                                                      |                    |
|----|------------------------------------------------------|--------------------|
| 1  | Ministry of Urban development and Construction       | Chairperson        |
| 2  | Dan technocrapht                                     | Member             |
| 3  | Construction Project management institute            | Member             |
| 4  | OTIS                                                 | Member             |
| 5  | AASTU Electromechanical Department                   | Member             |
| 6  | AAIT School Of mechanical and Industrial Engineering | Member             |
| 7  | Ethiopian Society of Mechanical Engineering          | Member             |
| 8  | Metals and Industrial development Institute          | Member             |
| 9  | METEC-Hi-Tech Engineering Industry                   | Member             |
| 10 | Ethiopian Standards Agency                           | Member & Secretary |

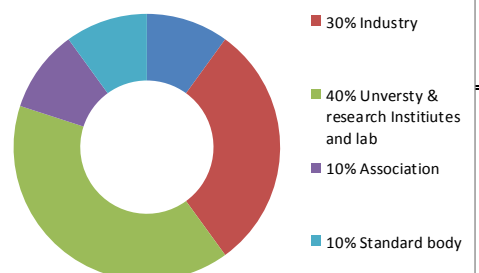
### TC 150 Sector



### TC 151 Sector



### TC 152 Sector

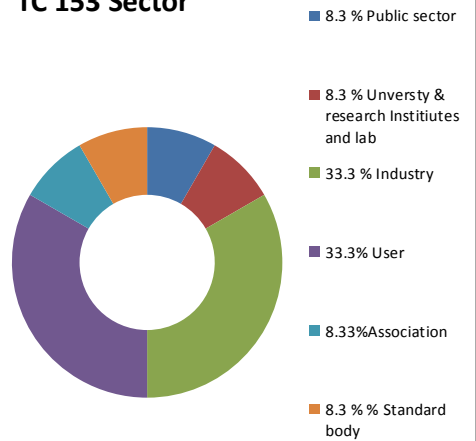


### TC 153 Rolling and plain Bearings

**Scope:** Standardization of all types and all sizes of bearing elements based on the principle of rolling motion, their accessories, application and identification and standardization of spherical plain bearings, i.e. plain bearings with spherical contact surface.

|    |                                                                                      |                      |
|----|--------------------------------------------------------------------------------------|----------------------|
| 1  | Ministry of Trade and Industry                                                       | Chairperson          |
| 2  | Addis Ababa University -Institute of Technology-Department of Mechanical Engineering | Member               |
| 3  | METEC- Bishoftu Automotive Industry                                                  | Member               |
| 4  | MEDROC Ethiopia                                                                      | Member               |
| 5  | Automotive Manufacturing Company of Ethiopia (AMCE)                                  | Member               |
| 6  | Ethiopian Society of Mechanical Engineers                                            | Member               |
| 7  | Mesfin Industrial Engineering PLC                                                    | Member               |
| 8  | Ethiopian Metals Industry Development Institute                                      | Member               |
| 9  | NYALA MOTORS                                                                         | Member               |
| 10 | MOENCO                                                                               | Member               |
| 11 | METEC-Akaki Basic Metals Industry                                                    | Member               |
| 12 | Ethiopian Standards Agency                                                           | Member and Secretary |

### TC 153 Sector

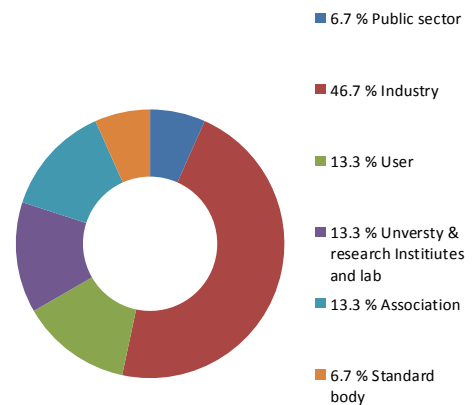


### TC 154 Machine tools and contineous mechanical handling equipment

**Scope:** Standardization of all machine tools for the working of metal, wood and plastics, operating by removal of material or by pressure.

|    |                                                     |                      |
|----|-----------------------------------------------------|----------------------|
| 1  | Ethiopian Metals Industry Development Institute     | Chairperson          |
| 2  | METEC- Akaki Basic Metals Industry                  | Member               |
| 3  | Ethiopian Manufacturing Industry Association        | Member               |
| 4  | Automotive Manufacturing Company of Ethiopia (AMCE) | Member               |
| 5  | METEC -Adama Agricultural Equipment Industry        | Member               |
| 6  | Adago MEDROC Trading PLC                            | Member               |
| 7  | HIBRET machine tools CNC controller                 | Member               |
| 8  | Gedeb Enginerign PLC                                | Member               |
| 9  | Mesfin Industrial Engineering PLC                   | Member               |
| 10 | Ethiopian Conformity Assessment Enterprise          | Member               |
| 11 | Ethiopian Society of Mechanical Engineers           | Member               |
| 12 | Kality Metal Products Factory                       | Member               |
| 13 | National Metrology Institute                        | Member               |
| 14 | Zequala Steel Rolling Mill                          | Member               |
| 15 | Ethiopian Standards Agency                          | Member and Secretary |

### TC 154 Sector



### TC 155 Welding and allied processe

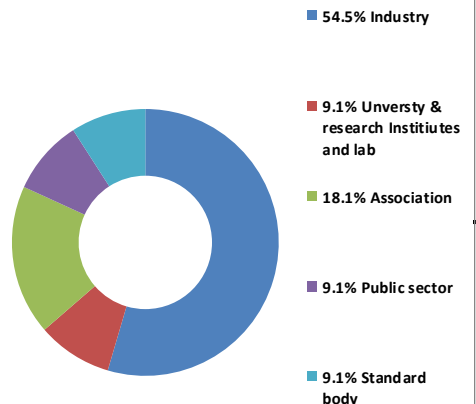
**Scope:** Standardization of welding, by all processes, as well as allied processes; these standards include terminology, definitions and the symbolic representation of welds on drawings, apparatus and equipment for welding, raw materials (gas, parent and filler metals) welding processes and rules, methods of test and control, calculations and design of welded assemblies, welders' qualifications, as well as safety and health.

Excluded:

•electrical safety matters related to welding which are the responsibility of IEC / TC 26.

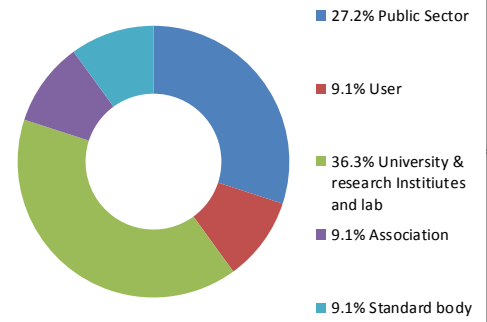
|    |                                                      |                      |
|----|------------------------------------------------------|----------------------|
| 1  | AAIT School Of mechanical and Industrial Engineering | Chairperson          |
| 2  | Mesfin Industrial Engineering                        | Member               |
| 3  | Center of Engineering Excellences                    | Member               |
| 4  | Ethiopian Arctectural Association                    | Member               |
| 5  | Maru Industrial S.C                                  | Member               |
| 6  | Ethiopian Metals Industry Development Institute      | Member               |
| 7  | Ethiopian Manufacturing Industry Association         | Member               |
| 8  | Ethiopian Society of Mechanical Engineers            | Member               |
| 9  | STEEL RMI                                            | Member               |
| 10 | Zequala Steel Rolling Mill                           | Member               |
| 11 | METEC- Akaki Basic Metals Industry                   | Member               |
| 12 | Ethiopian Steel Pvt. Ltd. Co.                        | Member               |
| 13 | Kality Metal Products Factory                        | Member               |
| 14 | Ministry of Industry and Trade                       | Member               |
| 15 | Ethiopian Standards Agency                           | Member and Secretary |

### TC 155 Sector



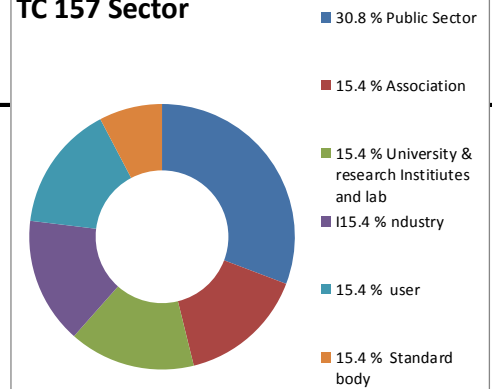
| <b>TC 156 Pump</b>                                                                                                                                                                                                                                                                                                                                   |                                                          |                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------|
| <b>Scope:</b> Standardization in the field of pumps; including: dimensions and technical specifications, test methods and conditions of acceptance for rotodynamic and positive displacement pumps for all liquids, including complete pumping installations, installations and special applications, as well as rotodynamic mixers for waste water. |                                                          |                      |
| 1                                                                                                                                                                                                                                                                                                                                                    | Ministry of Water and Irrigation                         | Chairperson          |
| 2                                                                                                                                                                                                                                                                                                                                                    | Ministry of Agriculture                                  | Member               |
| 3                                                                                                                                                                                                                                                                                                                                                    | Agricultural Equipments and Technical Service Enterprise | Member               |
| 4                                                                                                                                                                                                                                                                                                                                                    | Agricultural Transformation Agency                       | Member               |
| 5                                                                                                                                                                                                                                                                                                                                                    | Ethiopia Conformity Assessment Enterprise                | Member               |
| 6                                                                                                                                                                                                                                                                                                                                                    | Metals Industry Development Institute                    | Member               |
| 7                                                                                                                                                                                                                                                                                                                                                    | JICA Ethiopia                                            | Member               |
| 8                                                                                                                                                                                                                                                                                                                                                    | AASTU                                                    | Member               |
| 9                                                                                                                                                                                                                                                                                                                                                    | Ethiopian Water Works Construction Enterprise            | Member               |
| 10                                                                                                                                                                                                                                                                                                                                                   | Ethiopian Society of Mechanical Engineers                | Member               |
| 11                                                                                                                                                                                                                                                                                                                                                   | Ethiopian Standards Agency                               | Member and Secretary |

### TC 156 Sector



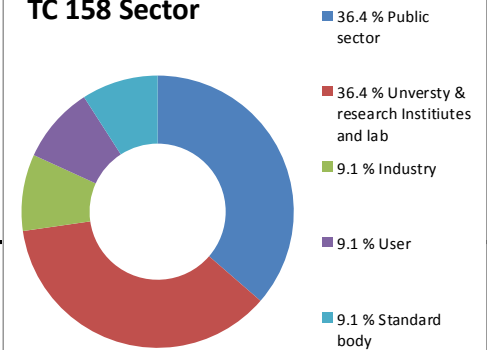
| <b>TC 157 Measurement of fluid flow in closed conduits</b>                   |                                                                                |                      |
|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------|
| <b>Scope:</b> Standardization for fluid flow measurement in closed conduits. |                                                                                |                      |
| 1                                                                            | Ministry of water and irrigation                                               | Chairperson          |
| 2                                                                            | Ministry of trade and Industry                                                 |                      |
| 3                                                                            | Addis Ababa University Institute of Technology Department of Civil Engineering | Member               |
| 4                                                                            | F.D.R.E Metal & Engineering Corporation Ethiopian Plastic                      | Member               |
| 5                                                                            | Chemical Society of Ethiopia                                                   | Member               |
| 6                                                                            | Excel Plastic PLC                                                              | Member               |
| 7                                                                            | MA Thermoplastics and Melamine PLC.                                            | Member               |
| 8                                                                            | Ethiopian Society of Chemical Engineers                                        | Member               |
| 9                                                                            | Ethiopian Institute of Architecture and Building Construction (EiABC)          | Member               |
| 10                                                                           | Ethiopia Conformity Assessment Enterprise                                      | Member               |
| 11                                                                           | Chemical and Construction Input Industry Development Institute                 | Member               |
| 12                                                                           | Ministry of urban Development and and Construction                             | Member               |
| 13                                                                           | Ethiopian Standards Agency                                                     | Member and Secretary |

### TC 157 Sector



| <b>TC 158 Thermal performance and energy use in the built environment</b>                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                |                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|----------------------|
| <b>Scope:</b> Standardization in the field of building and civil engineering works of thermal and hygrothermal performance of materials, products, components, elements and systems, including complete buildings, both new and existing, and their interaction with technical building systems; of thermal insulation materials, products and systems for building and industrial application, including insulation of installed equipment in buildings; |                                                                                |                      |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Ministry of Urban development and Construction                                 | Chairperson          |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Federal Energy Authority                                                       | Member               |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Addis Ababa university Institute of Technology Department of Civil Engineering | Member               |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Construction Project Management Institute                                      | Member               |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Addis ababa science and technology Univiresty                                  | Member               |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Trade Competition and Consumers' Protection Authority                          | Member               |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Ethiopia Conformity Assessment Enterprise                                      | Member               |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Ethiopian Metal and Engineering Corporation                                    | Member               |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Chemical and Construction Input Industry Development Institute                 | Member               |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Ethiopian Standards Agency                                                     | Member and Secretary |

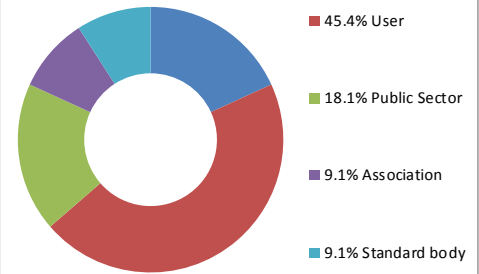
### TC 158 Sector



**TC 159 Refrigerator**

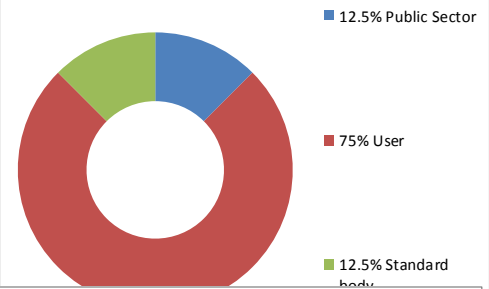
**Scope:** Standardization in the fields of refrigeration and air-conditioning, including terminology, mechanical safety, methods of testing and rating equipment, measurement of sound levels, refrigerant and refrigeration lubricant chemistry, with consideration given to environmental protection. The scope includes factory-assembled air-conditioners (cooling), heat pumps, dehumidifiers, refrigerants, and refrigerant reclaiming and recycling equipment as well as other devices, components and equipment such as humidifiers, ventilation equipment and automatic controls used in air-conditioning and refrigeration systems that are not covered by other technical committees.

|    |                                                      |                      |
|----|------------------------------------------------------|----------------------|
| 1  | AAIT Electrical Engineering Department               | Chairperson          |
| 2  | EETELCO                                              | Member               |
| 3  | LG COMPANY                                           | Member               |
| 4  | SUMSUNG                                              | Member               |
| 5  | PhilipsEthiopia                                      | Member               |
| 6  | Trade computation and Consumers Protection Authority | Member               |
| 7  | OMEDAD                                               | Member               |
| 8  | Ethiopian Electric utility                           | Member               |
| 9  | Ethiopian Society of Electrical Engineering          | Member               |
| 10 | AASTU Electromechanical Department                   | Member               |
| 11 | Ethiopian Standards Agency                           | Member and Secretary |

**TC 159 Sector****TC 160 Gas Cylinder**

**Scope:** Standardization of gas cylinders, their fittings and characteristics relating to their manufacture and use.

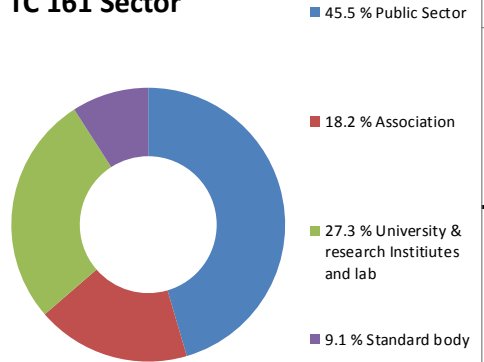
|    |                                                           |                      |
|----|-----------------------------------------------------------|----------------------|
| 1  | Trade computation and Consumers Protection Authority      | Chairperson          |
| 2  | Ministry of Mining                                        | Member               |
| 3  | Ministry of Water and Irrigation                          | Member               |
| 4  | Gion Gas                                                  | Member               |
| 5  | LPG Total Ethiopia(TOTAL GAZ)                             | Member               |
| 6  | MEDROC Addis Gas And Plastics Factory Pvt. Ltd. Co. (AGP) | Member               |
| 7  | National Oil Ethiopia (NOC)                               | Member               |
| 8  | Federal Micro and Small Enterprise Development Agency     | Member               |
| 9  | OilLibya                                                  | Member               |
| 10 | Ethiopian Standards Agency                                | Member and Secretary |

**TC 160 Sector****TC 161 Cleaning equipment of air & other gases**

**Scope:** Standardization in the fields of terminology, classification, characteristics, and test and performance methods for air and gas cleaning and disinfecting equipment for general ventilation and industrial applications.

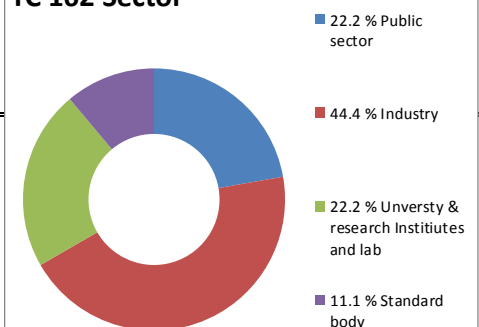
Excluded :exhaust gas cleaners for gas turbines and IC engines in mobile equipment, this being within the scope of other I technical committees.

|    |                                                     |                      |
|----|-----------------------------------------------------|----------------------|
| 1  | Environment, Forest and Climate ChangeCommission    | Chairperson          |
| 2  | Ethiopian Food and Medicine Controll Authority      | Member               |
| 3  | Chemical Society of Ethiopia                        | Member               |
| 4  | Addis Ababa University- Department of Chemistry     | Member               |
| 5  | Ethiopian Petroleum Enterprise                      | Member               |
| 6  | Ethiopian Conformity Assessment Enterprise          | Member               |
| 7  | Trade Competition and Consumer Protection Authority | Member               |
| 8  | Federal Ministry of Labor & Social Affairs          | Member               |
| 9  | AASTU                                               | Member               |
| 10 | Ministry of Trade and Industry                      | Member               |
| 11 | Ethiopian Standards Agency                          | Member and Secretary |

**TC 161 Sector****TC 162 Cast irons and pig irons**

**Scope:** Standardization in the field of all types of cast iron and all types of pig iron.

|   |                                                                                |                      |
|---|--------------------------------------------------------------------------------|----------------------|
| 1 | Metals Industry Development Institute                                          | Chairperson          |
| 2 | Akaki Steel Factory                                                            | Member               |
| 3 | Addis Ababa University Institute of Technology Department of Civil Engineering | Member               |
| 4 | Ethiopian Metal and Engineering Corporation                                    | Member               |
| 5 | Ethiopian Steel PLC                                                            | Member               |
| 6 | Kality Metal Products Factory                                                  | Member               |
| 7 | Ethiopian Conformity Assessment Enterprise                                     | Member               |
| 8 | Ministry of urban Development and and Construction                             | Member               |
| 9 | Ethiopian Standards Agency                                                     | Member and Secretary |

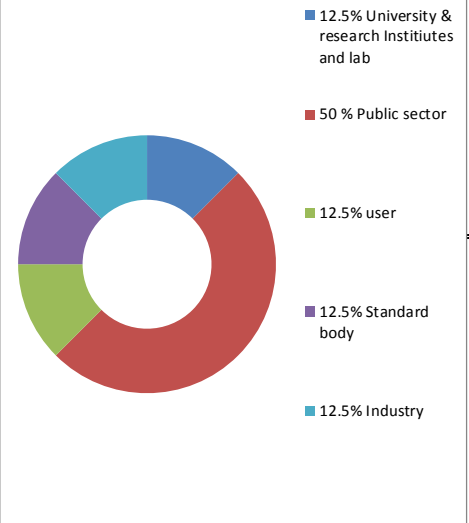
**TC 162 Sector**

**TC 163 Industrial-process measurement, control and automation**

**Scope:** To prepare international standards for systems and elements used for industrial-process measurement and control concerning continuous and batch processes. To co-ordinate the standardization of those features of related elements which affect suitability for integration into such systems. The work of standardization outlined above is to be carried out in the international fields for equipment and systems operating with electrical, pneumatic, hydraulic, mechanical or other systems of measurement and/or control.

|   |                                               |                      |
|---|-----------------------------------------------|----------------------|
| 1 | Ethiopian National Metrology Institute        | Chairperson          |
| 2 | Ethiopian Air Force- Central Metrological Lab | Member               |
| 3 | National Radiation Protection Authority       | Member               |
| 4 | National Meteorological Service Agency        | Member               |
| 5 | Ethiopian power engineering Corporation       | Member               |
| 6 | Ministry of Trade and Industry                | Member               |
| 7 | Ethiopian Metals & Engineering Corporation    | Member               |
| 9 | Ethiopian Standards Agency                    | Member and Secretary |

**TC 163 Sector**

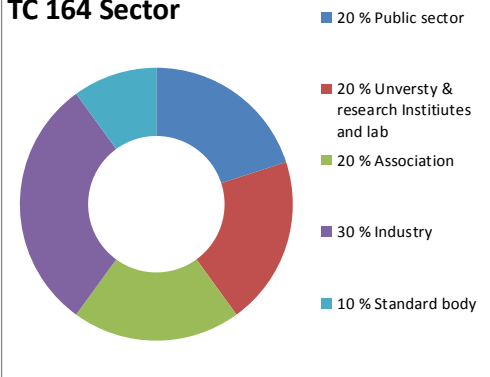


**TC 164 Wood Technology**

**Scope:** Standardization of in the field of wood technology

|    |                                                              |                      |
|----|--------------------------------------------------------------|----------------------|
| 1  | Environment ,Forest and Climate Change Commission            | Chairperson          |
| 2  | Ministry of Education                                        | Member               |
| 3  | Small and midium manufacturing Industry Development Agency   | Member               |
| 4  | Ministry of urban Development and and Construction           | Member               |
| 5  | Educational Materials Production and Distribution Enterprise | Member               |
| 6  | Addis Ababa University Institute of Technology               | Member               |
| 7  | Ethiopian Consulting Engineers and Architects Association    | Member               |
| 8  | Construction Design S.C                                      | Member               |
|    | Ethiopian Biodiveristy Institute                             | Member               |
| 9  | Ethiopian Conformity Assessment Enterprise                   | Member and Secretary |
| 10 | Ethiopian Standards Agency                                   |                      |
| 8  | Ethiopian Standards Agency                                   | Member and Secretary |

**TC 164 Sector**

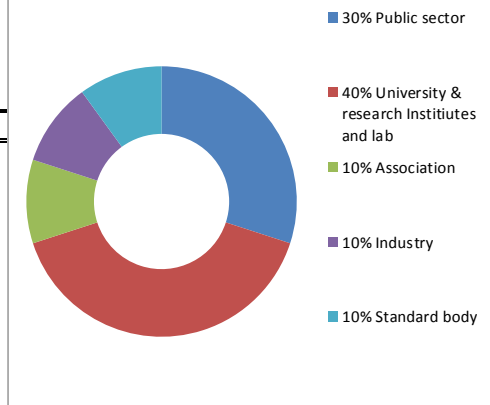


**TC 165 Freight container**

**Scope:** Standardization of freight containers, having an external volume of one cubic meter (35.3 cubic feet) and greater, as regards terminology, classification, dimensions, specifications, handling, test methods and marking.

|    |                                                                 |                      |
|----|-----------------------------------------------------------------|----------------------|
| 1  | Ministry of Trade and Industry                                  | Chairperson          |
| 2  | Ethiopian Food and Medicine Control Authority                   | Member               |
| 3  | Ethiopian National Metrology Institute                          | Member               |
| 4  | Addis Ababa University (AAU) Food Science and Technology Center | Member               |
| 5  | Ethiopian Conformity Assessment Enterprise                      | Member               |
| 6  | Chemical Society of Ethiopia                                    | Member               |
| 7  | Addis Ababa bottle and glass share company                      | Member               |
| 8  | Ethiopian Metals & Engineering Corporation                      | Member               |
| 9  | Addis Ababa University, Department of Chemistry                 | Member               |
| 10 | Ethiopian Standards Agency                                      | Member and Secretary |

**TC 165 Sector**

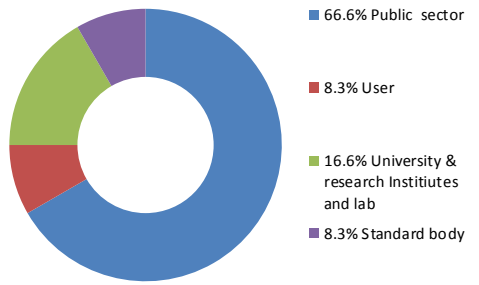


### TC 166 Intelligent Transport Systems

**Scope:** Standardization of information, communication and control systems in the field of urban and rural surface transportation, including intermodal and multimodal aspects thereof, traveller information, traffic management, public transport, commercial transport, emergency services and commercial services in the intelligent transport systems (ITS) field.

|    |                                                      |                      |
|----|------------------------------------------------------|----------------------|
| 1  | AA Transport Program Management Office               | Chairperson          |
| 2  | Ethiopia Toll Fee enterprise                         | Member               |
| 3  | Ministry of Innovation and Technology                | Member               |
| 4  | Ethiopian Conformity Assessment Enterprise           | Member               |
| 5  | Ministry of Trade and Industry                       | Member               |
| 6  | Ethiopian Road Authority                             | Member               |
| 7  | Addis ababa Transport Authority                      | Member               |
| 8  | AAIT School Of mechanical and Industrial Engineering | Member               |
| 9  | Federal Transport Authority                          | Member               |
| 10 | Addis Ababa Traffic Management agency                | Member               |
| 11 | Ethiopian Standards Agency                           | Member and Secretary |

### TC 166 Sector

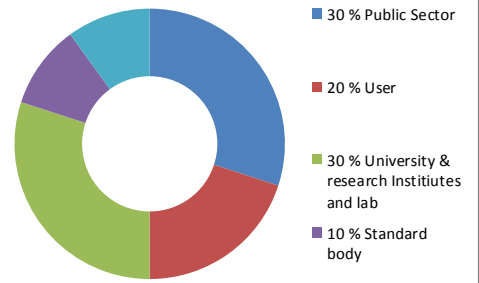


### TC 167 Road Furniture

**Scope:** Standardization for road furniture and traffic system.

|    |                                                     |                      |
|----|-----------------------------------------------------|----------------------|
| 1  | Federal Transport Authority                         | Chairperson          |
| 2  | AACR traffic management Agency                      | Member               |
| 3  | Ethiopian Road Authority                            | Member               |
| 4  | Addis Ababa transport management office             | Member               |
| 5  | Federal traffic police                              | Member               |
| 6  | Anbessa City Bus Service Enterprise                 | Member               |
| 7  | Metals Industry Development Institute               | Member               |
| 8  | Automotive Manufacturing Company of Ethiopia (AMCE) | Member               |
| 9  | AASTU Automotive Department                         | Member               |
| 10 | Ethiopian Standards Agency                          | Member and Secretary |

### TC 167 Sector

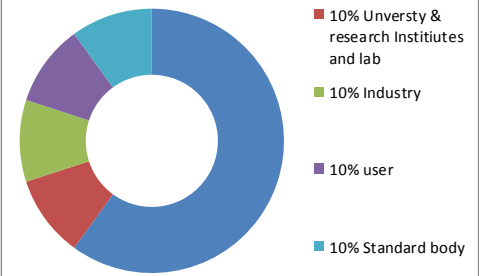


### TC 168 Road traffic safety management systems

**Scope:** Standardization in the field of RTS, Road traffic safety, management standards, needs, to be effective, to consist of: a requirement standard, RTS specific auditing requirements in third party certification, and implementation and guidance documents.

|    |                                                                                      |                      |
|----|--------------------------------------------------------------------------------------|----------------------|
| 1  | Federal Transport Authority                                                          | Chairperson          |
| 2  | Addis Ababa transport Authority                                                      | Member               |
| 3  | Addis Ababa University -Institute of Technology-Department of Mechanical Engineering | Member               |
| 4  | Addis ababa traffic management Agency                                                | Member               |
| 5  | Addis ababa transport management office                                              | Member               |
| 6  | Ethiopian Roads Authority                                                            | Member               |
| 7  | Addis ababa traffic police                                                           | Member               |
| 8  | Lifan motors Automotive company                                                      | Member               |
| 9  | Nyala Motors                                                                         | Member               |
| 10 | Ethiopian Standards Agency                                                           | Member and Secretary |

### TC 168 Sector

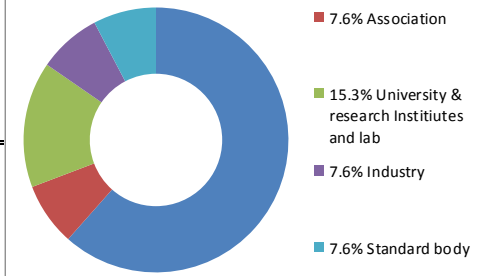


### TC 169 Rail way

**Scope:** Standardization of all systems, products and services specifically related to the railway sector, including design, manufacture, construction, operation, and maintenance of parts and equipment, methods and technology, interfaces between infrastructure, vehicles and the environment, excluding those electrotechnical and electronic products and services for railways.

|    |                                              |                      |
|----|----------------------------------------------|----------------------|
| 1  | Ethiopian Rail-way Corporation               | Chairperson          |
| 2  | Ethiopian society of Electrical engineering  | Member               |
| 3  | Ethiopian Electric Power                     | Member               |
| 4  | Ethiopian Electric Utility                   | Member               |
| 5  | Ministry of Water Irrigation and Electricity | Member               |
| 6  | Ethiopian Society of Mechanical Engineers    | Member               |
| 7  | Metals Industry Development Institute        | Member               |
| 8  | METEC Ethiopian Power Engineering Industry   | Member               |
| 9  | Federal Transport Authority                  | Member               |
| 10 | Ethiopian Road Authority                     | Member               |
| 11 | Ministry of Trade                            | Member               |
| 12 | AAIT School of rail way Engineering          | Member               |
| 13 | Ethiopian Standards Agency                   | Member and Secretary |

### TC 169 Sector



|                                                                                                                                                                                                                                                                                                                                                                                                              |                            |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--|
| <b>SC 169-1</b>                                                                                                                                                                                                                                                                                                                                                                                              | <b>Rail way Civil work</b> |  |
| Standardization in the field of railway infrastructure, including areas such as railway tracks, platforms, stations and shunting yards, as well as railway specific needs for tunnels, bridges and other civil works, and addressing: design, construction and installation requirements, testing and conformity assessment of ground equipment as well as maintenance criteria for their entire life cycle. |                            |  |

|                                                            |                                    |  |
|------------------------------------------------------------|------------------------------------|--|
| <b>SC 169-2</b>                                            | <b>Rail way power applications</b> |  |
| Standardization in the field of railway power application. |                                    |  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                      |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--|
| <b>SC 169-3</b>                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Electrical equipment and systems for railways</b> |  |
| Standardization in the field which includes rolling stock, fixed installations, management systems (including communication, signalling and processing systems) for railway operation, their interfaces and their ecological environment. These standards cover railway networks, metropolitan transport networks (including metros, tramways, trolleybuses and fully automated transport systems) and magnetic levitated transport systems. |                                                      |  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--|
| <b>SC 169-4</b>                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>Railway rolling stock</b> |  |
| Standardization in the field of railway rolling stock products, equipment and systems, including areas such as locomotives, passenger cars, freight wagons, on track machines, multiple units, underground and light rail vehicles, and addressing: design, manufacture and installation requirements, testing and conformity assessment of on-board equipment and rolling stock as well as maintenance criteria for their entire life cycle. |                              |  |

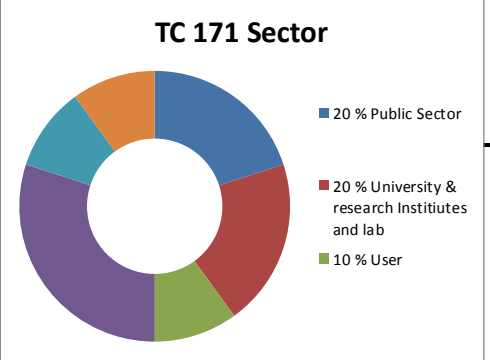
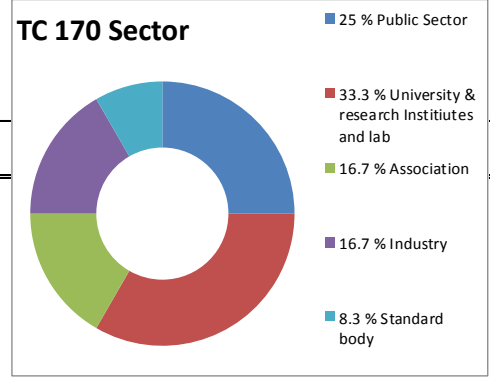
|                                                                                                                                                                                                                                                                                                                                                                                           |                                     |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--|
| <b>SC 169-5</b>                                                                                                                                                                                                                                                                                                                                                                           | <b>Railway operation and safety</b> |  |
| Standardization of requirements and guidance relating to operations and services in the railway system and related equipment, which are required in and between railway stakeholders as well as at the technical interfaces between railway operators and railway users such as passengers and shippers in order to realize safe, reliable, convenient and sustainable railway transport. |                                     |  |

|                                                                                                                                  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------|--|--|
| <b>TC 170 Binders and sealants</b>                                                                                               |  |  |
| <b>Scope:</b> Standardization of definitions, test methods and specifications of binders and sealants for building construction. |  |  |

|    |                                                                                |                      |
|----|--------------------------------------------------------------------------------|----------------------|
| 1  | Ministry of urban Development and Construction                                 | Chairperson          |
| 2  | Addis Ababa University Institute of Technology Department of Civil Engineering | Member               |
| 3  | F.D.R.E Metal & Engineering Corporation Ethiopian Plastic                      | Member               |
| 4  | Ministry of Trade and Industry                                                 | Member               |
| 5  | Chemical Society of Ethiopia                                                   | Member               |
| 6  | Nefassilk Paint Factory                                                        | Member               |
| 7  | Ethiopian Society of Chemical Engineers                                        | Member               |
| 8  | Ethiopian Institute of Architecture and Building Construction (EiABC)          | Member               |
| 9  | Ethiopian Conformity Assessment Enterprise                                     | Member               |
| 10 | Chemical and Construction Input Industry Development Institute                 | Member               |
| 12 | Ethiopian Standards Agency                                                     | Member and Secretary |

|                                                                                                                        |  |  |
|------------------------------------------------------------------------------------------------------------------------|--|--|
| <b>TC 171 Tyres, rims and valves</b>                                                                                   |  |  |
| <b>Scope:</b> Standardization of classifications, size designations, dimensions and ratings of tyres, rims and valves. |  |  |

|    |                                                                |                      |
|----|----------------------------------------------------------------|----------------------|
| 1  | Ministry of Trade and Industry                                 | Chairperson          |
| 2  | AAU-Institute of Technology Department of Chemical Engineering | Member               |
| 3  | Excel Plastic PLC                                              | Member               |
| 4  | Federal Transport Authority                                    | Member               |
| 5  | Chemical Society of Ethiopia                                   | Member               |
| 6  | MATADOR Addis Tyre S. C.                                       | Member               |
| 7  | Horizen Tyre S. C.                                             | Member               |
| 8  | Ethiopian Conformity Assessment Enterprise                     | Member               |
| 9  | Ethiopian Metals and Engineering Corporation                   | Member               |
| 10 | Ethiopian Standards Agency                                     | Member and Secretary |





### TC 172 Laboratory equipment

**Scope:** Standardization of devices and apparatus for laboratory purposes, with respect to principles and to materials of construction, performance, dimensions and testing, as well as the terms and definitions used in connection therewith. The relative emphasis to be placed on standards of performance and on dimensional standards is to be decided by the committee, either generally or separately for each item.

|    |                                                        |                      |
|----|--------------------------------------------------------|----------------------|
| 1  | Ministry of Trade and Industry                         | Chairperson          |
| 2  | Addis Ababa University, Department of Chemistry        | Member               |
| 3  | Bekas Chemicals PLC.                                   | Member               |
| 4  | Ethiopian Leather Industries Development Institute     | Member               |
| 5  | Chemical Society of Ethiopia                           | Member               |
| 6  | Awash Melkasa Aluminum Sulfate and Sulphuric Acid S. C | Member               |
| 7  | Zway Caustic Soda S. Co.                               | Member               |
| 8  | Ethiopian Society of Chemical Engineering              | Member               |
| 9  | Ethiopian Conformity Assessment Enterprise             | Member               |
| 10 | Ethiopian Standards Agency                             | Member and Secretary |

### TC 173 Plastics pipes, fittings and valve for transport of fluids

**Scope:** Standardization of pipes, fittings, valves and auxiliary equipments intended for the transport of fluids and made from all types of plastic materials, including all types of reinforced plastics.

Metal fittings used with plastics pipes are also included.

This standardization includes - for pipes, flanges, fittings, valves and auxiliary equipments - dimensions and their tolerances; requirements for chemical, mechanical and physical properties and appropriate test methods; requirements and test methods for other properties relevant to particular applications; temperature and pressure ratings

|    |                                                                                |                      |
|----|--------------------------------------------------------------------------------|----------------------|
| 1  | Ministry of Trade and Industry                                                 | Chairperson          |
| 2  | Addis Ababa University Institute of Technology Department of Civil Engineering | Member               |
| 3  | F.D.R.E Metal & Engineering Corporation Ethiopian Plastic                      | Member               |
| 4  | Chemical Society of Ethiopia                                                   | Member               |
| 5  | Excel Plastic PLC                                                              | Member               |
| 6  | MA Thermoplastics and Melamine PLC.                                            | Member               |
| 7  | Ethiopian Society of Chemical Engineers                                        | Member               |
| 8  | Ethiopian Institute of Architecture and Building Construction (EiABC)          | Member               |
| 9  | Ethiopian Conformity Assessment Enterprise                                     | Member               |
| 10 | Chemical and Construction Input Industry Development Institute                 | Member               |
| 11 | Ministry of urban Development and and Construction                             | Member               |
| 12 | Ethiopian Standards Agency                                                     | Member and Secretary |

### TC 174 Nano Technology

**Scope:** Standardization in the field of nanotechnologies that includes either or both of the following:

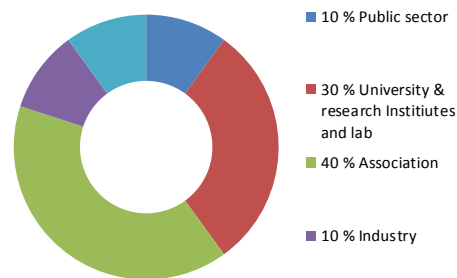
1. Understanding and control of matter and processes at the nanoscale, typically, but not exclusively, below 100 nanometres in one or more dimensions where the onset of size-dependent phenomena usually enables novel applications,
2. Utilizing the properties of nanoscale materials that differ from the properties of individual atoms, molecules, and bulk matter, to create improved materials, devices, and systems that exploit these new properties. Specific tasks include developing standards for: terminology and nomenclature; metrology and instrumentation, including specifications for reference materials; test methodologies; modelling and simulations; and science-based health, safety, and environmental practices.

|   |                                                                               |                    |
|---|-------------------------------------------------------------------------------|--------------------|
| 1 | Ministry of innovation and Technology                                         | <b>Chairperson</b> |
| 2 | Biotechnology institute                                                       | Member             |
| 3 | Adama Science and Technology University                                       | Member             |
| 4 | AASTU                                                                         | Member             |
| 5 | AAIT School of Mechanical and Industrial Engineering(Mechatronics Department) | Member             |
| 6 | METEC-Hi-Tech Engineering Industry                                            | Member             |
| 7 | Ethiopian Standards Agency                                                    | Member & Secretary |

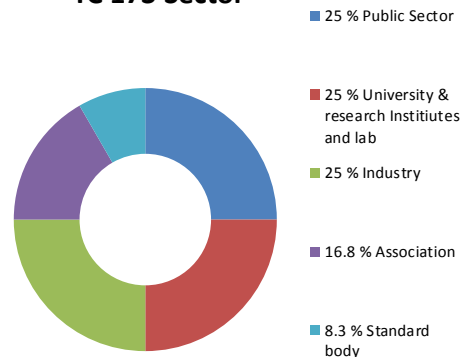
### 174-1 Nanotechnology for electrotechnical products and systems

Standardization in the field of nano technology

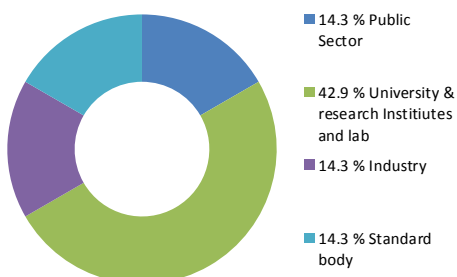
### TC 172 Sector



### TC 173 Sector



### TC 174 Sector



**TC 175 Glass containers****Scope:** Standardization of glass containers made from moulded glass used as a means of packaging

|    |                                                                 |                      |
|----|-----------------------------------------------------------------|----------------------|
| 1  | Ministry of Trade and Industry                                  | Chairperson          |
| 2  | Ethiopian Food and Medicine Control Authority                   | Member               |
| 3  | Ethiopian National Metrology Institute                          | Member               |
| 4  | Addis Ababa University (AAU) Food Science and Technology Center | Member               |
| 5  | Ethiopian Conformity Assessment Enterprise                      | Member               |
| 6  | Chemical Society of Ethiopia                                    | Member               |
| 7  | Addis Ababa bottle and glass share company                      | Member               |
| 8  | Trade computation and Consumers Protection Authority            | Member               |
| 9  | Addis Ababa University, Department of Chemistry                 | Member               |
| 10 | Ethiopian Standards Agency                                      | Member and Secretary |

**TC 176 Natural Gas****Scope:** Standardization in the field of Natural gas and biogas produced by anaerobic digestion, gasification from biomass and power to gas from biomass sources.

|    |                                                    |                      |
|----|----------------------------------------------------|----------------------|
| 1  | Environment ,Forest and Climate Change Commission  | Chairperson          |
| 2  | Ministry of Trade and Industry                     | Member               |
| 3  | Ministry of Mining                                 |                      |
| 4  | Ministry of Urban development and Construction     | Member               |
| 5  | Ethiopian Leather Industries Development Institute | Member               |
| 6  | Chemical Society of Ethiopia                       | Member               |
| 7  | Ethiopian Radiation Protection Authority           | Member               |
| 8  | Federal Ministry of Labor and Social Affairs       | Member               |
| 9  | Addis Ababa Water & Sewerage Authority             | Member               |
| 10 | Addis Ababa City Municipality                      | Member               |
| 11 | Ministry of Agriculture                            | Member               |
| 12 | Ethiopian Standards Agency                         | Member and Secretary |

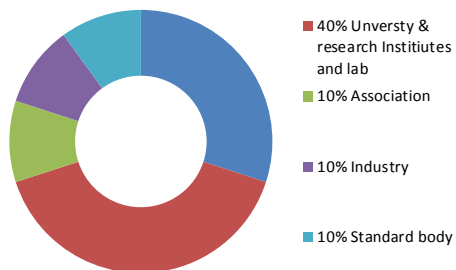
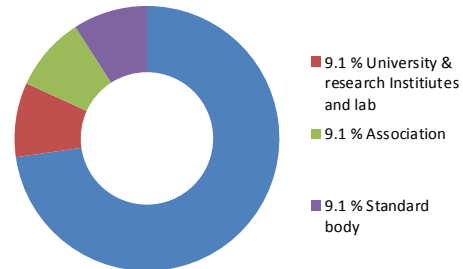
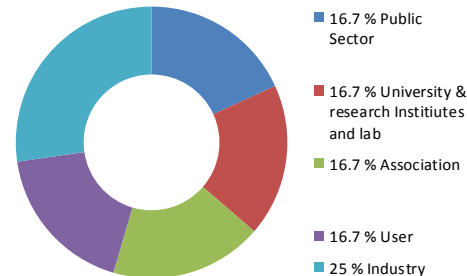
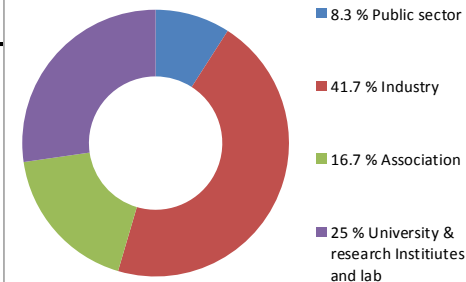
**TC 177 Textile floor covering**

The scope covers standardization of terminology, sampling, grading, labeling and marking, codes of practice, test methods and specifications for floor coverings which are made from textile products.

|    |                                                                            |                   |
|----|----------------------------------------------------------------------------|-------------------|
| 1  | Ethiopian Textile Industry Development Institute                           | Chairperson       |
| 2  | Ethiopian Institute of Textile and Fashion Technology Bahir Dar University | Member            |
| 3  | Ethiopian Textile and Garment Manufacturers Association                    | Member            |
| 4  | Asura International Business Consultancy PLC                               | Member            |
| 5  | Nuoya Textile Invetment PLC                                                | Member            |
| 6  | TRIO CRAFT PLC                                                             | Member            |
| 7  | Bahirdar Textile S.C                                                       | Member            |
| 8  | Yirgalem Addis Textile Factory PLC                                         | Member            |
| 9  | Federal Small and Medium manufacturing Industry Development Agency         | Member            |
| 10 | Kombolcha Textile S. C                                                     | Member            |
| 11 | Ethiopian Conformity Assessment Enterprise                                 | Member            |
| 12 | Ethiopian Standards Agency                                                 | Member& Secretary |

**TC 178 Footwear****Scope:** Standardization of test methods, terminology and performance requirements for components for footwear; test methods and terminology for whole shoe.

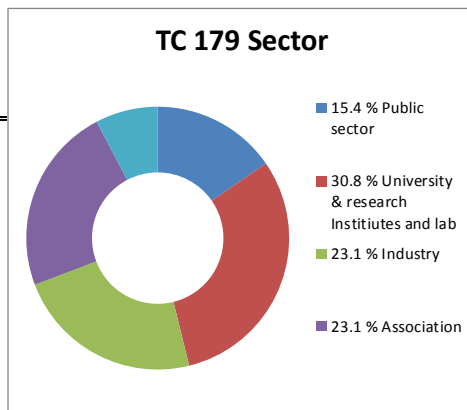
|    |                                                                                        |                   |
|----|----------------------------------------------------------------------------------------|-------------------|
| 1  | Ethiopian Leather Industry Development Institute                                       | Chairperson       |
| 2  | Tikur Abbay Shoes S.C                                                                  | Member            |
| 3  | Anbessa Shoes S.C                                                                      | Member            |
| 4  | ELICO- Fontanina Shoe Factory                                                          | Member            |
| 5  | Ethiopian Leather Professional Association                                             | Member            |
| 6  | Peacock Shoe Factory                                                                   | Member            |
| 7  | Addis Ababa Science and Technology University, Department of manufacturing Engineering | Member            |
| 8  | Ramsay Shoe Factory                                                                    | Member            |
| 9  | Kangaroo Shoe Factory                                                                  | Member            |
| 10 | Addis Ababa Productivity Improvement Center                                            | Member            |
| 11 | Ethiopian Conformity Assessment Enterprise                                             | Member            |
| 12 | Ethiopian Standards Agency                                                             | Member& Secretary |

**TC 175 Sector****TC 176 Sector****TC 177 Sector****TC 178 Sector**

**TC 179 Textile machinery and accessories**

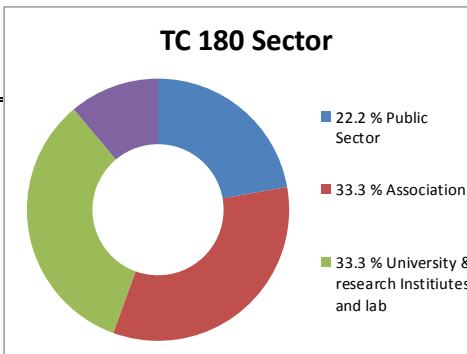
**Scope:** standardization of terminology, labeling and marking, specifications, and designation for textile machinery, equipment and accessories that are used for production and testing of all textile and textile products.

|    |                                                                                      |                   |
|----|--------------------------------------------------------------------------------------|-------------------|
| 1  | Ethiopian Textile Industry Development Institute                                     | Chairperson       |
| 2  | Ethiopian Institute of Textile and Fashion Technology Bahir Dar University           | Member            |
| 3  | METEC- Hiberet Machine Building Engineering Industry                                 | Member            |
| 4  | Ethiopian Metals Industry Development Institute                                      | Member            |
| 5  | Asura International Business Consultancy PLC                                         | Member            |
| 6  | Federal Democratic of Ethiopia Technical and Vocational Education Training Institute | Member            |
| 7  | Ethio-Japan Synthetic Textiles S.C                                                   | Member            |
| 8  | Federal Small and Medium manufacturing Industry Development Agency                   | Member            |
| 9  | Ethiopian Textile and Garment Manufacturers Association                              | Member            |
| 10 | Bahirdar Textile S.C                                                                 | Member            |
| 11 | Ethiopian society of mechanical engineers (ESME)                                     | Member            |
| 12 | Defence university college of engineering                                            | Member            |
| 13 | Ethiopian Standards Agency                                                           | Member& Secretary |

**TC 180 Anesthetic and respiratory equipment**

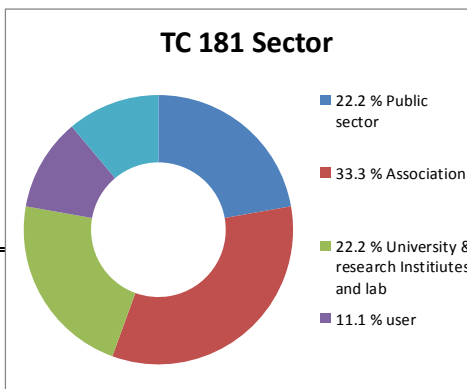
**Scope:** Standardization of anaesthetic and respiratory equipment and supplies, related devices and supply systems.

|    |                                                                 |                      |
|----|-----------------------------------------------------------------|----------------------|
| 1  | Ethiopian Public Health Institute                               | Chairperson          |
| 2  | Ethiopian Manufacturing Industry Association                    | Member               |
| 3  | Ethiopian National Metrology Institute                          | Member               |
| 4  | Jimma university                                                | Member               |
| 5  | Gonder University                                               | Member               |
| 6  | Ethiopian Medical Association                                   | Member               |
| 7  | Surgical Society of Ethiopia                                    | Member               |
| 8  | Center of Biomedical Engineering of AAiT   AAU                  | Member               |
| 9  | Addis Ababa University- Medical Faculty, Tikur Anbessa Hospital | Member               |
| 10 | Ethiopian clinical Association                                  | Member               |
| 11 | private Hospitals Associations                                  | Member               |
| 12 | Ethiopian Medical Laboratory Association                        | Member               |
| 13 | Ethiopian Standards Agency                                      | Member and Secretary |

**TC 181 Traditional Medicine**

**Scope:** Standardization in the field of medical systems derived from ancient Traditional medicine which shall be able to share one common set of standards. Both traditional and modern aspects of these systems are covered. The committee focuses on quality and safety of raw materials, manufactured products and medical devices and of informatics, including service standards limited to involving the safe use and delivery of devices & medicine, but not into the clinical practice or application of those products.

|    |                                                                 |                      |
|----|-----------------------------------------------------------------|----------------------|
| 1  | Ethiopian Public Health Institute                               | Chairperson          |
| 2  | Ethiopian Pharmaceutical Association                            | Member               |
| 3  | Ethiopian Medical Association                                   | Member               |
| 4  | Ethiopian Food and Medicine Control Authority                   | Member               |
| 5  | Ethiopian Intellectual Property Office(EIPO)                    | Member               |
| 6  | Ethiopian Pharmaceutical Manufacturing Enterprise               | Member               |
| 7  | Ethiopian Biomedical Engineering Association                    | Member               |
| 8  | Ethiopia Conformity Assessment Enterprise                       | Member               |
| 9  | Addis Ababa University- Medical Faculty, Tikur Anbessa Hospital | Member               |
| 10 | AAU-College of Health Science school of Pharmacy                | Member               |
| 11 | Ethiopian Standards Agency                                      | Member and Secretary |



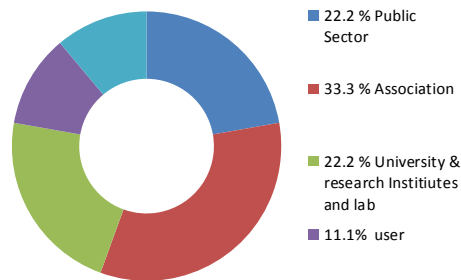
### TC 182 Implants for Surgery

**Scope:** Standardization in the field of implants for surgery 1) and their required instrumentation, covering terminology, specifications and methods of tests for all types of implants, and for the materials both basic and composite used in their manufacture and application.

1) Objects or devices which are surgically implanted in the body either temporarily or permanently for diagnostic or therapeutic purposes

|    |                                                                                |                      |
|----|--------------------------------------------------------------------------------|----------------------|
| 1  | Ministry of Health                                                             | Cairperson           |
| 2  | Ethiopian Public Health Institute                                              | Member               |
| 3  | Professional Association of Integerated Emergency Surgical Officer of Ethiopia | Member               |
| 4  | Center of Biomedical Engineering of AAiT   AAU                                 | Member               |
| 5  | Addis Ababa University- Medical Faculty, Tikur Anbessa Hospital                | Member               |
| 6  | Ethiopian Biomedical Engineering Association                                   | Member               |
| 7  | Medical Association of Physicians in Private Practice Ethiopia                 | Member               |
| 8  | Gonder Unversity                                                               | Member               |
| 9  | Jimma university                                                               | Member               |
| 10 | Ethiopian Medical Association                                                  | Member               |
| 11 | Surgical Society of Ethiopia                                                   | Member               |
| 12 | Addis Ababa University- Medical Faculty, Tikur Anbessa Hospital                | Member               |
| 13 | Ethiopian Standards Agency                                                     | Member and Secretary |

### TC 182 Sector

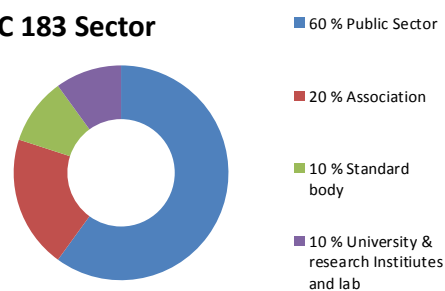


### TC 183 Aids, Disabled Persons

**Scope:** Standardization in the field of assistive products for persons with disability.

|   |                                                       |                      |
|---|-------------------------------------------------------|----------------------|
| 1 | Ministry of Labour and Social Affairs                 | Cairperson           |
| 2 | Ministry of urban Development and Construction        | Member               |
| 3 | Ministry of Trade and Industry                        | Member               |
| 4 | Trade Competition and Consumers' Protection Authority | Member               |
| 5 | Ministry of education                                 | Member               |
| 6 | Addis Ababa University                                | Member               |
| 7 | Ministry of Culture and Tourism                       | Member               |
| 8 | Federal transport Minister                            | Member               |
| 9 | Ethiopian Standards Agency                            | Member and Secretary |

### TC 183 Sector

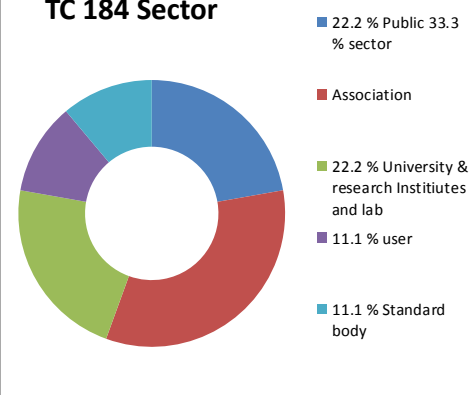


### TC 184 Sterilization of health care products

**Scope:** Standardization of processes and equipment for sterilization of health care products.

|    |                                                                                |                      |
|----|--------------------------------------------------------------------------------|----------------------|
| 1  | Ministry of Health                                                             | Cairperson           |
| 2  | Ethiopian Public Health Institute                                              | Member               |
| 3  | Professional Association of Integerated Emergency Surgical Officer of Ethiopia | Member               |
| 4  | Jimma university                                                               | Member               |
| 5  | Ethiopian Radiation Protection Authority                                       | Member               |
| 6  | Ethiopian Biomedical Engineering Association                                   | Member               |
| 7  | Surgical Society of Ethiopia                                                   | Member               |
| 8  | Ethiopian Medical Association                                                  | Member               |
| 9  | Center of Biomedical Engineering of AAiT   AAU                                 | Member               |
| 10 | Addis Ababa University- Medical Faculty, Tikur Anbessa Hospital                | Member               |
| 11 | Medical Association of Physicians in Private Practice Ethiopia                 | Member               |
| 12 | Gonder Unversity                                                               | Member               |
| 13 | Ethiopian Standards Agency                                                     | Member and Secretary |

### TC 184 Sector

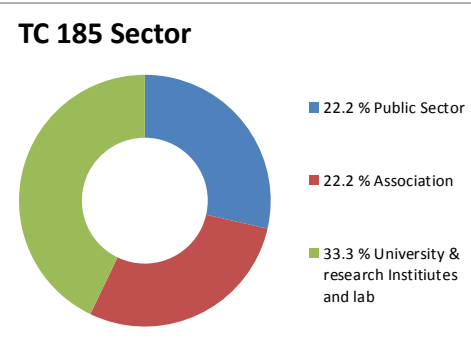


### TC 185 Veterinary Medicine

**Scope:** Standardization of Vetemiry medicine and code of practice

|    |                                                                                |                      |
|----|--------------------------------------------------------------------------------|----------------------|
| 1  | Veterinary Institute                                                           | Cairperson           |
| 2  | private Hospitals Associations                                                 | Member               |
| 3  | Surgical Society of Ethiopia                                                   | Member               |
| 4  | Food, Beverage and Pharmaceuticals Industry Development Institute              | Member               |
| 5  | Ethiopian Animal Feed and Veterinary Drug Administration and Control Authority | Member               |
| 6  | National Animal Health Research Center                                         | Member               |
| 7  | Jimma university                                                               | Member               |
| 8  | Ethiopian Medical Association                                                  | Member               |
| 9  | Addis Ababa University- Medical Faculty, Tikur Anbessa Hospital                | Member               |
| 10 | Ethiopian Standards Agency                                                     | Member and Secretary |

### TC 185 Sector

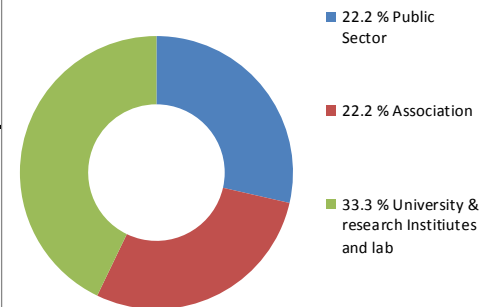


**TC 186 Biological and clinical evaluation of medical devices**

**Scope:** Standardization of the approach to biological and clinical evaluation of medical and dental materials and devices together with standardization of biological test methods applicable to those materials and devices as well as good clinical practice principles to clinical investigations in humans of those devices.

|    |                                                                 |                      |
|----|-----------------------------------------------------------------|----------------------|
| 1  | Ministry of Health                                              | Cairperson           |
| 2  | Ethiopian Public Health Institute                               | Member               |
| 3  | Ethiopian Food and Medicine control Authority                   | Member               |
| 4  | Private Hospitals Associations                                  | Member               |
| 5  | Ethiopian Radiation Protection Authority                        | Member               |
| 6  | Center of Biomedical Engineering of AAiT   AAU                  | Member               |
| 7  | Jimma university                                                | Member               |
| 8  | Ethiopian Medical Association                                   | Member               |
| 9  | Addis Ababa University- Medical Faculty, Tikur Anbessa Hospital | Member               |
| 10 | Ethiopian clinicl Association                                   | Member               |
| 11 | Ethiopian Standards Agency                                      | Member and Secretary |

**TC 186 Sector**

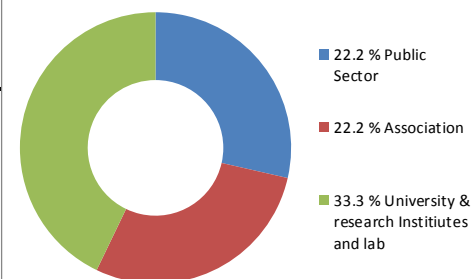


**TC 187 Transfusion, Infusion and injection and blood processing equipment for medical and pharmaceutical use**

**Scope:** Standardization Transfusion, Infusion and injection and blood processing equipment for medical and pharmaceutical use

|    |                                                                 |                      |
|----|-----------------------------------------------------------------|----------------------|
| 1  | Ministry of Health                                              | Cairperson           |
| 2  | Ethiopian Public Health Institute                               | Member               |
| 3  | Private Hospitals Associations                                  | Member               |
| 4  | Food and Medicine control Authority                             | Member               |
| 5  | Ethiopian Radiation Protection Authority                        | Member               |
| 6  | Ethiopian Private Health Facilities Employers Association       | Member               |
| 7  | Ethiopian Biomedical Engineering Association                    | Member               |
| 8  | Gonder Unversity                                                | Member               |
| 9  | Jimma university                                                | Member               |
| 10 | Ethiopian Medical Association                                   | Member               |
| 11 | Addis Ababa University- Medical Faculty, Tikur Anbessa Hospital | Member               |
| 12 | Medical Association of Physicians in Private Practice Ethiopia  | Member               |
| 13 | Ethiopian Standards Agency                                      | Member and Secretary |

**TC 187 Sector**

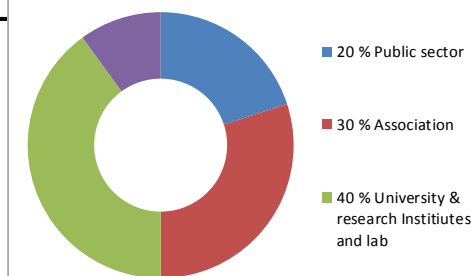


**TC 188 Dentistry**

**Scope:** Standardization in oral health care including: terms and definitions; performance, safety, and specification requirements of dental products; and clinically relevant laboratory test methods, all of which contribute to improved global health

|    |                                                                 |                      |
|----|-----------------------------------------------------------------|----------------------|
| 1  | Ministry of Health                                              | Cairperson           |
| 2  | Ethiopian Public Health Institute                               | Member               |
| 3  | Ethiopian Medical Association                                   | Member               |
| 4  | Ethiopian National Metrology Institute                          | Member               |
| 5  | Ethiopian Radiation Protection Authority                        | Member               |
| 6  | private Hospitals Associations                                  | Member               |
| 8  | jimma university                                                | Member               |
| 9  | Ethiopian Biomedical Engineering Association                    | Member               |
| 10 | Ethiopian Private Health Facilities Employers Association       | Member               |
| 11 | Center of Biomedical Engineering of AAiT   AAU                  | Member               |
| 12 | Addis Ababa University- Medical Faculty, Tikur Anbessa Hospital | Member               |
| 13 | Ethiopian clinicl Association                                   | Member               |
| 14 | Ethiopian Standards Agency                                      | Member and Secretary |

**TC 188 Sector**

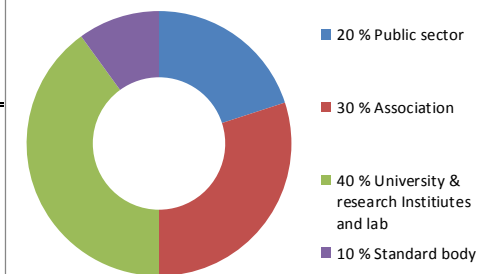


**TC 189 Birth Control and Mechanical Contraceptives**

**Scope:** Standardization in Birth control and mechanical contraceptives health care including: terms and definitions; performance, safety, and specification requirements of contraceptive products; and clinically relevant laboratory test methods.

|   |                                                                 |                      |
|---|-----------------------------------------------------------------|----------------------|
| 1 | Ministry OfHealth                                               | Cairperson           |
| 2 | Ethiopian Public Health Institute                               | Member               |
| 3 | Ministry of Womens, child and Youth Affaire                     | Member               |
| 4 | Ethiopian National Metrology Institute                          | Member               |
| 5 | private Hospitals Associations                                  | Member               |
| 6 | Ethiopian Private Health Facilities Employers Association       | Member               |
| 7 | Addis Ababa University- Medical Faculty, Tikur Anbessa Hospital | Member               |
| 8 | Ethiopian clinicl Association                                   | Member               |
| 9 | Ethiopian Standards Agency                                      | Member and Secretary |

**TC 189 Sector**

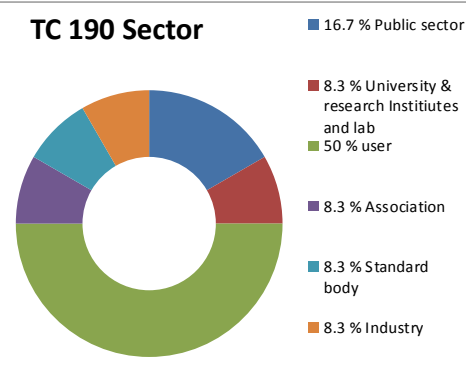


### TC 190 Prosthetics and Orthotics

**Scope:** Standardization in the field of prosthetics and orthotics, covering such aspects as performance, safety, environmental factors, interchangeability, etc. Temporary and permanent procedures and devices are included. Priority is given to standards on prostheses (artificial limbs and auxiliary equipment).

|    |                                                                |                      |
|----|----------------------------------------------------------------|----------------------|
| 1  | Ministry of health                                             | Chairperson          |
| 2  | Ethiopian Food and Medicine Control Authority                  | Member               |
| 3  | Addis Ababa University- Faculty of Medicine                    | Member               |
| 4  | ETAB Syringe Manufacturing PLC                                 | Member               |
| 5  | Public Health Association of Ethiopia                          | Member               |
| 6  | Bethel Teaching General Hospital                               | Member               |
| 7  | Jimma university                                               | Member               |
| 8  | Korea Hospital                                                 | Member               |
| 9  | Gonder Unversity                                               | Member               |
| 10 | Ethiopian Medical Association                                  | Member               |
| 11 | private Hospitals Associations                                 | Member               |
| 12 | Arfab Engineering                                              | Member               |
| 13 | Medical Association of Physicians in Private Practice Ethiopia | Member               |
| 14 | Ethiopian Standards Agency                                     | Member and Secretary |

### TC 190 Sector

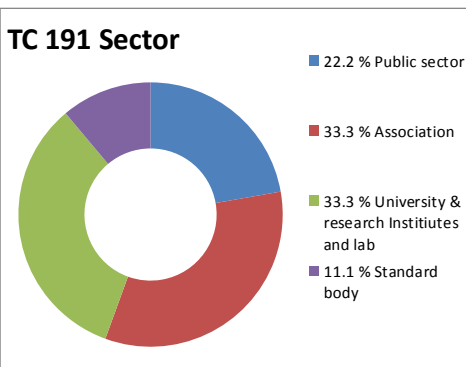


### TC 191 Medical Services

**Scope:** Standardization of the performance of Medical services .

|    |                                                                 |                      |
|----|-----------------------------------------------------------------|----------------------|
| 1  | Ministry of Health                                              | Cairperson           |
| 2  | Gonder Unversity                                                | Member               |
| 3  | Jimma university                                                | Member               |
| 4  | Ethiopian Private Health Facilities Employers Association       | Member               |
| 5  | private Hospitals Associations                                  | Member               |
| 6  | Ethiopian Medical Association                                   | Member               |
| 7  | Ethiopian Radiation Protection Authority                        | Member               |
| 8  | Ethiopian Biomedical Engineering Association                    | Member               |
| 9  | Center of Biomedical Engineering of AAiT   AAU                  | Member               |
| 10 | Addis Ababa University- Medical Faculty, Tikur Anbessa Hospital | Member               |
| 11 | Ethiopian clinicl Association                                   | Member               |
| 12 | Ethiopian Standards Agency                                      | Member and Secretary |

### TC 191 Sector



### TC 192 Safety of Toys

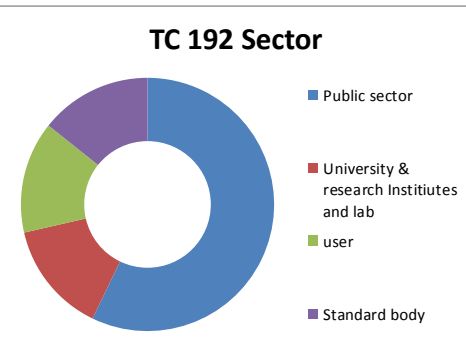
**Scope:** Standardization of toys with respect to safety relating to their mechanical, physical, chemical and flammable properties.

Excluded:

- all electrical aspects which are dealt with by IEC.

|   |                                                                 |                      |
|---|-----------------------------------------------------------------|----------------------|
| 1 | Ministry of Trade and Industry                                  | Cairperson           |
| 2 | Ministry of Education                                           | Member               |
| 3 | Educational Materials Production and Distribution Enterprise    | Member               |
| 4 | Ministry of Women child and Youth Affires                       | Member               |
| 5 | Ministry of Innovention and Technology                          | Member               |
| 6 | National metrology institute                                    | Member               |
| 7 | Addis Ababa University- Medical Faculty, Tikur Anbessa Hospital | Member               |
| 8 | Ministry of education                                           | Member               |
| 9 | Ethiopian Standards Agency                                      | Member and Secretary |

### TC 192 Sector

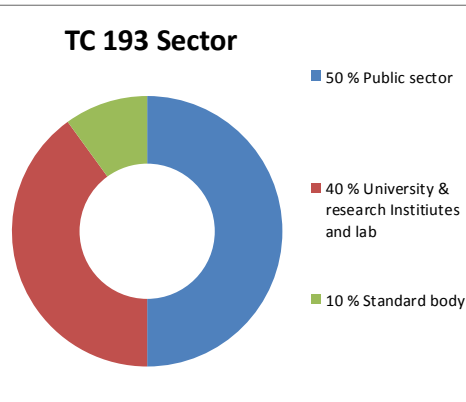


### TC 193 Nuclear energy, Nuclear technologies and radiological protection

**Scope:** Standardization in the field of peaceful applications of nuclear energy, nuclear technologies and in the field of the protection of individuals and the environment against all sources of ionising radiations.

|    |                                               |                      |
|----|-----------------------------------------------|----------------------|
| 1  | Ethiopian Radiation Protection Authority      | Chairperson          |
| 2  | Space science                                 | Member               |
| 3  | National Geological survey                    | Member               |
| A  | Addis ababa Science and Technology univeristy | Member               |
| 5  | Ministry of Inovention and Technology         | Member               |
| 6  | Addis Ababa University- Department of Physics | Member               |
| 7  | National Metrology Institute                  | Member               |
| 8  | Ethiopian Conformity Assessment Enterprise    | Member               |
| 9  | Federal Ministry of Labor and Social Affairs  | Member               |
| 10 | Ethiopian Standards Agency                    | Member and Secretary |

### TC 193 Sector

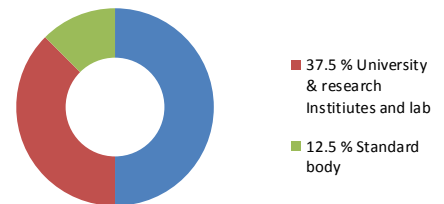


### SC 193-1 Nuclear Instrumentation

**Scope:** Standardization of instrument for nuclear related process.

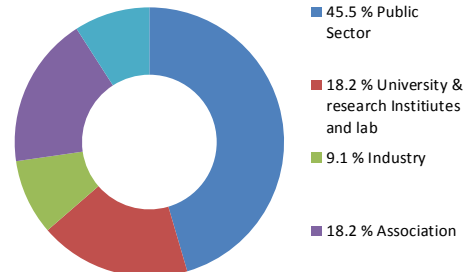
**TC 194 Equipment for Explosive atmosphere****Scope:** Standardization of terminology, code of practices ,specification for equipment in the field of explosive atmosphere

|   |                                                  |                      |
|---|--------------------------------------------------|----------------------|
| 1 | Ethiopian Radiation Protection Authority         | Chairperson          |
| 2 | Environment, Forest and Climate Change Commision | Member               |
| 3 | Ethiopian Radiation Protection Authority         | Member               |
| 4 | Addis Ababa University- Department of Physics    | Member               |
| 5 | National Metrology Institute                     | Member               |
| 6 | Ethiopian Conformity Assessment Enterprise       | Member               |
| 7 | Federal Ministry of Labor and Social Affairs     | Member               |
| 8 | Ethiopian Standards Agency                       | Member and Secretary |

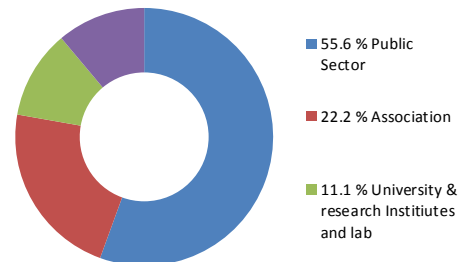
**TC 194 Sector****TC 195 Safety of Household and Similar electric appliances**

To prepare international standards on performance measurement methods for heating appliances

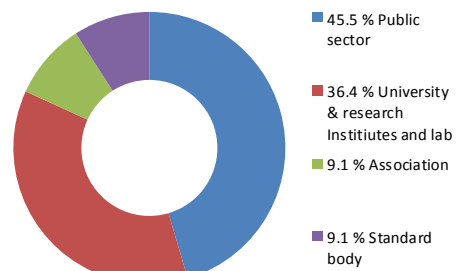
|    |                                                                                                  |                   |
|----|--------------------------------------------------------------------------------------------------|-------------------|
| 1  | Energy Authority                                                                                 | Chairperson       |
| 2  | Ministry of water and irrigation                                                                 | Member            |
| 3  | Ministry of Trade and Industry                                                                   | Member            |
| 4  | Addis Ababa University Institute of Technology Department of Mechanical Engineering              | Member            |
| 5  | DAN Techno craft                                                                                 | Member            |
| 6  | Ethiopian Electric Power                                                                         | Member            |
| 7  | Ethiopian Consulting Engineers and Architects association                                        | Member            |
| 8  | Addis Ababa University Institute of Technology-Department of Electrical and Computer Engineering | Member            |
| 9  | Ethiopian Society of Mechanical Engineers                                                        | Member            |
| 10 | Geological Survey                                                                                | Member            |
| 11 | Ethiopian Standards Agency                                                                       | Member& Secretary |

**TC 195 Sector****TC 196 Smart City****Scope:** Standardization in of process prodcts code of practices including coustics ,envaromental and related issues in building smart cities.

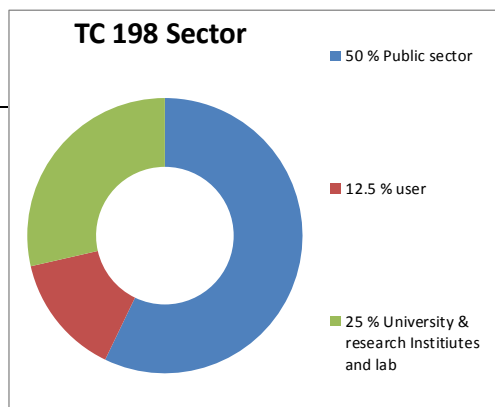
|    |                                                     |                      |
|----|-----------------------------------------------------|----------------------|
| 1  | Ministry of Innovetion and Technology               |                      |
| 2  | National plann development commission               |                      |
| 3  | Federal Ministry of Labor & Social affairs          | Chairperson          |
| 4  | Ministry of Urban Development and Construction      | Member               |
| 5  | Ministry of Education                               | Member               |
| 6  | Ministry of Trade and Industry                      | Member               |
| 7  | Ethiopian Employees Confederation                   | Member               |
| 8  | Federal Transport Authority                         | Member               |
| 9  | Trade Competition and Consumer Protection Authority | Member               |
| 10 | National Metrology Institute                        | Member               |
| 11 | Ethiopian Standards Agency                          | Member and Secretary |

**TC 196 Sector****TC 197 Urban Planning****Scope:** To prepare national publications in the field of urban planing.

|    |                                                                                        |                    |
|----|----------------------------------------------------------------------------------------|--------------------|
| 1  | Ministry of urban development and Construction                                         | Chairperson        |
| 2  | Geospitial and Information Institute                                                   | Member             |
| 3  | Ethiopian institute of architecture, building construction and City development(EiABC) | Member             |
| 4  | Association of Ethiopian Architects                                                    | Member             |
| 5  | Adama STU-School of Civil Engineering and Architecture                                 | Member             |
| 6  | Kotebe metropolitan university- faculty of urban development studies                   | Member             |
| 7  | Plan and development Commission                                                        | Member             |
| 8  | Federal Urban land and land related properties information and registration Agency     | Member             |
| 9  | Federal Integrated Land information System project Office                              | Member             |
| 10 | Civil Service University-college of urban development and Engineering                  | Member             |
| 11 | Ethiopian Standards Agency                                                             | Member & secretary |

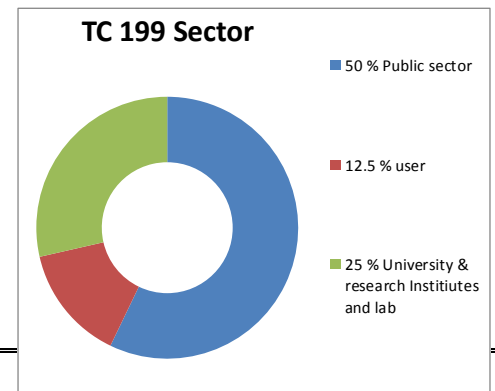
**TC 197 Sector**

|                                                            |                                                                                        |                    |
|------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------|
| <b>TC 198:</b>                                             | <b>Architecture &amp; Design</b>                                                       |                    |
| <b>Scope: Standardization of Architecture &amp; Design</b> |                                                                                        |                    |
| 1                                                          | Ministry of urban development and Construction                                         | Chairperson        |
| 2                                                          | Geospatial and Information Institute                                                   | Member             |
| 3                                                          | Ethiopian institute of architecture, building construction and City development(EiABC) | Member             |
| 4                                                          | Association of Ethiopian Architects                                                    | Member             |
| 5                                                          | Adama STU-School of Civil Engineering and Architecture                                 | Member             |
| 6                                                          | Kotebe metropolitan university- faculty of urban development studies                   | Member             |
| 7                                                          | Plan and development Commission                                                        | Member             |
| 8                                                          | Federal Urban land and land related properties information and registration Agency     | Member             |
| 9                                                          | Federal Integrated Land information System project Office                              | Member             |
| 10                                                         | Civil Service University-college of urban development and Engineering                  | Member             |
| 11                                                         | Ethiopian Standards Agency                                                             | Member & secretary |



**TC 199: Land Use management**  
**Scope:** defines a reference Land Administration Domain Model (LADM) covering basic information-related components of land administration (including those over water and land, and elements above and below the surface of the earth); provides an abstract, conceptual model with four packages related to parties (people and organizations); basic administrative units, rights, responsibilities, and restrictions (ownership rights); spatial units (parcels, and the legal space of buildings and utility networks); spatial sources (surveying), and spatial representations (geometry and topology); provides terminology for land administration, based on various national and international systems, that is as simple as possible in order to be useful in practice. The terminology allows a shared description of different formal or informal practices and procedures in various jurisdictions; provides a basis for national and regional profiles; and enables the combining of land administration information from different sources in a coherent manner.

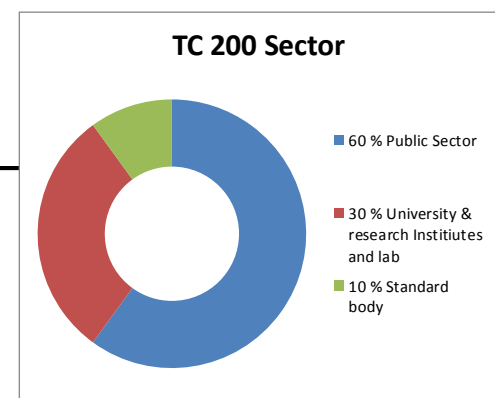
|   |                                                                                        |                    |
|---|----------------------------------------------------------------------------------------|--------------------|
| 1 | Urban Land Development and Management Bureau (MoHUD)                                   | Chairperson        |
| 2 | Rural Land Administration & Utilization Directorate(MoANR)                             | Member             |
| 3 | Ministry of Urban development and Construction                                         | Member             |
| 4 | Federal Urban land and land related properties information and registration Agency     | Member             |
| 5 | Ethiopian institute of architecture, building construction and City development(EiABC) | Member             |
| 6 | Civil Service University-college of urban development and Engineering                  | Member             |
| 7 | Bahir dar University- Institute of Land Administration                                 | Member             |
| 8 | Ethiopian Standards Agency                                                             | Member & Secretary |



**TC 200 Classification of hazardous areas and installation requirements**

**Scope:** Standardization in the classification of hazardous areas and requirement.

|    |                                                   |                      |
|----|---------------------------------------------------|----------------------|
| 1  | Ethiopian Radiation Protection Authority          | Chairperson          |
| 2  | Ethiopian Food and Medicine Control Authority     | Member               |
| 3  | Ministry of Trade and Industry                    | Member               |
| 4  | Addis Ababa City Municipality                     | Member               |
| 5  | Addis Ababa University- Department of Physics     | Member               |
| 6  | National Metrology Institute                      | Member               |
| 7  | Ethiopian Conformity Assessment Enterprise        | Member               |
| 8  | Federal Ministry of Labor and Social Affairs      | Member               |
| 9  | Addis Ababa Water & Sewerage Authority            | Member               |
| 10 | Environment, Forest and Climate Change Commission | Member               |
| 11 | Ethiopian Standards Agency                        | Member and Secretary |



**TC 201 Sludge recovery, recycling, treatment and disposal**

**Scope:** Standardization Sludge recovery, recycling, treatment and disposal.

|    |                                                                            |                      |
|----|----------------------------------------------------------------------------|----------------------|
| 1  | Environment ,Forest and Climate Change Commission                          | Chairperson          |
| 2  | Ministry of Trade and Industry                                             | Member               |
| 3  | Ministry of urban development and Construction                             | Member               |
| 4  | Ethiopian Leather Industries Development Institute                         | Member               |
| 5  | Chemical Society of Ethiopia                                               | Member               |
| 6  | Ethiopian Radiation Protection Authority                                   | Member               |
| 7  | Professional Association of Occupational Health & Safety                   | Member               |
| 8  | Addis Ababa University- College of Natural Science Department of Chemistry | Member               |
| 9  | Ethiopian Industrial Park Development Corporation                          | Member               |
| 10 | Addis Ababa Water & Sewerage Authority                                     | Member               |
| 11 | Addis Ababa City Municipality                                              | Member               |
| 12 | Ethiopian Textile Industry Development Institute                           | Member               |
| 13 | Ethiopian Standards Agency                                                 | Member and Secretary |

