



ETHIOPIAN ACCREDITATION SERVICE ACCREDITATION CERTIFICATE

Ethiopian Conformity Assessment Enterprise (ECAE)

**Addis Ababa
Ethiopia**

Facility Accreditation No: **T0028**

Is accredited by the Ethiopian Accreditation Service (EAS) to perform tests in accordance with the attached *Scope of Accreditation* in the field of

Chemical, Microbiology, Electrical, Textile, and Mechanical testing

The facility is accredited in accordance with the requirements of **ISO/IEC 17025:2017**, General requirements for the competence of testing and calibration laboratories. The accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system. While this certificate remains valid, the Accredited Facility named above is authorized to use a combined **ILAC-EAS** accreditation mark/symbol to issue test reports and/or certificates.

Effective Date: 14 July 2023
Certificate of Expire: 28 September 2023

Mrs. Meseret Tessema
Director-General
Ethiopian Accreditation Service



SCOPE OF ACCREDITATION
Facility Accreditation No: **T0028**

<p>Permanent Address of Laboratory: Name of the Lab: Ethiopian Conformity Assessment Enterprise (ECAE)</p> <p>Location: Bole Sub-city wereda 06 Addis Ababa, Ethiopia</p> <p>Postal Address: 11145, Addis Ababa, Ethiopia</p> <p>Telephone No: +251 (0) 11646 0683</p> <p>Fax No: +251 (0) 11645 9720</p> <p>Email: info-tld@eca-e.com</p> <p>Website:</p>	<p>Management Signatories: Abel Anberibir</p> <p>Nominated Representative: Mr. Tatek Shiferaw</p> <p>Technical Signatories: Chemical Testing lab</p> <p>Abeba Habtu: ES ISO 660; ES ISO 6320; ES 56; ES ISO 2171; ES ISO 1871:2012; ES ISO 712:2009 and ES ISO 7305:2005</p> <p>Bekam Fikadu: ES ISO 2481; East, Central, and Southern Africa health community: Manual of laboratory method for fortified food part 1 (ECSA-HC), ES ISO 2483, AOAC 965.08, AOAC 957.02 and AOAC 962.02, AOAC 957.02 and AOAC 962.02 ,ES 609, ES 1176-2:2005, ES 1176-2:2005, ES ISO 663:2007, ES ISO 662:2001, ES ISO 10523:2008, ES 607:2001, ES 607:2001, ES ISO 9297:2014 ,ES ISO 7888:2014 ES 319:2002, ES 337:2001, ES 318:2018, ES 334:2001; ES 323:2013 ,ES 325:2013; CTL/SOP/M014.01 and ES 1069: 2005</p> <p>Tsehay Tadesse, Beniyam Asmare and Mitiku Diriba: ES ISO 2483, AOAC 965.08 ,AOAC 957.02 and AOAC 962.02, AOAC 957.02 and AOAC 962.02, ES ISO 2171, ES ISO 1871:2012, ES ISO 712:2009 ,ES ISO 7305:2005 ,ES 985, ES 985, ES 987, ES 985, Harmonized method of international method Honey commission (HMIHC), HMIHC ,HMIHC, ES25:2001, CTL/SOP/M031.01, CTL/SOP/M014.01, E ISO 712:2012, CTL/SOP/M014.01, ES 478:2012, ES ISO 659:2012, CTL/SOP/M014.01, ES 985:2012 annex B and ES ISO 659:2012</p>
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Permanent Address of Laboratory: Name of the Lab: Ethiopian Conformity Assessment Enterprise (ECAE) Location: Bole Sub-city wereda 06 Addis Ababa, Ethiopia Postal Address: 11145, Addis Ababa, Ethiopia Telephone No: +251 (0) 11646 0683 Fax No: +251 (0) 11645 9720 Email: info-tld@eca-e.com Website:	Mitiku Diriba and Beniyam Asmare: ES 1203:2018 annex F, ES 1203:2018 annex ,GES 1203:2018 annex C,ES 1203:2018 annex H ES 1203:2018 annex D,ES 1203:2018 annex F and ES 1203:2018 annex G Bekalu Ligerih: AOAC 965.08,AOAC 957.02 and AOAC 962.02 ,AOAC 957.02 and AOAC 962.02 ,ES ISO 685:2013,ES ISO 673:2013,ES ISO 456:2001 & ES ISO 672:2001 9,10 11 and 47 Fisum G/medihin: ES ISO 2171,ES ISO 1871:2012ES ISO 712:2009,ES ISO 7305:2005,ES ISO 685:2013,ES ISO 673:2013,ES ISO 456:2001and ES ISO 672:2001 Yezina Deneke for ES ISO 2171, ES ISO 663:2007 ES ISO 662:2001, ES ISO 10523:2008,ES 607:2001 ES 607:2001,ES ISO 9297:2014, CES 53:2018 Annex B, ES ISO 11294:2012 CTL/SOP/M014.01and ES 1069: 2005 Bizunesh Minlargh: ES ISO 2171, ES 609 ES1064:2005,CTL/SOP/M014.01,ES ISO 663:2007 ES ISO 662:2001, CTL/SOP/M014.01and ES 1069: 2005 Desta Sitotaw: ES ISO 660; ES ISO 6320; ES 56; ES 1176-2:2005 Lose of ignition; 1176-2:2005 Sulphate ES ISO 2271:2001;CES 105:Annex B8CES ;105:Annex B4,CES 105:Annex B6 and CES 105:Annex B10 Teshome Mersha: ES 804:2012,ES 318:2002 ES 817:2002, ES 1176-2:2005,ES 1176-2:2005 ES 1176-2:2005 Eneyew Guadie: ES 985,ES 985, ES 987 & ES 985 ES ISO 2271:2001,CES 105:Annex B8CES ,105:Annex B4,CES 105:Annex B6 & CES 105:Annex B10 Menbere Wabi: Harmonized method of international method honey commission (HMIHC),ES 25:2001 ,CTL/SOP/M014.01,ES 1069: 2005 Ermiyas Ali: ES 1176-2:2005,ES 1176-2:2005, ES 1176-2:2005, ES ISO 2271:2001,CES 105:Annex B8CES ,105:Annex B4,CES 105:Annex B6 and CES 105:Annex B10
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Permanent Address of Laboratory:	Gashaw Adamu: ES 804:2012,ES 318:2002 ,ES
Name of the Lab:	817:2002, ES ISO 11294:2012,CTL/SOP/MO31.01
Ethiopian Conformity Assessment Enterprise (ECAE)	CTL/SOP/M014.01,ES ISO712:2012,CTL/SOP/M014.01 ES 478:2012,ESISO 659:2012,CTL/SOP/M014.01
Location:	ES 985:2012 annex B ,ES 1032-1:2019,ES 1032-1:2019,ES
Bole Sub-city wereda 06 Addis Ababa, Ethiopia	1032-1:2019,ES 1032-1:2019, ES 1203:2018 annex F,ES 1203:2018 annex ,GES 1203:2018 annex C,ES 1203:2018 annex H,ES 1203:2018 annex D,ES 1203:2018 annex F,ES 1203:2018 annex G ESISO 659:2012, ES 402:2008
Postal Address:	Dawit Tesfaye: Harmonized method of international
11145, Addis Ababa,Ethiopia	method honey commission (HMIHC),HMIHC,HMIHC ES 25:2001ES ISO 663:2007,ES ISO 662:2001 ES ISO 10523:2008,ES 607:2001,ES 607:2001
Telephone No:	ES ISO 9297:2014, CES 53:2018 Annex B,ES ISO
+251 (0) 11646 0683	10523:2008,ES 607:2001,ES 607:2001, ES ISO 9297:2014 ,ES ISO 7888:2014,ES 319:2002,ES 337:2001,ES 318:2018,ES 334:2001,ES 323:2013 ES 325:2013 and ES ISO 11294:2012
Fax No:	Alemayehu Moges: ES ISO 2171,ES ISO 1871:2012ES
+251 (0) 11645 9720	ISO 712:2009,ES ISO 7305:2005, ES 25:2001, ES ISO712:2012,CTL/SOP/M014.01,ES 478:2012,ESISO 659:2012,CTL/SOP/M014.01,ES 985:2012 annex B ,ES 1032-1:2019,ES 1032-1:2019, ES 1032-1:2019,ES 1032- 1:2019, ES 1203:2018 annex F,ES 1203:2018 annex ,GES 1203:2018 annex C,ES 1203:2018 annex H,ES 1203:2018 annex D,ES 1203:2018 annex F,ES 1203:2018 annex G and ESISO 659:2012
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Permanent Address of Laboratory:	Hawine Debela: ES ISO 660,ES ISO 6320
Name of the Lab: Ethiopian Conformity Assessment Enterprise (ECAE)	ES 56,ES ISO 2481,East, Central, and Southern Africa health community: Manual of laboratory method for fortified food part 1 ,(ECSA-HC), ES ISO 2480,ES ISO 2479,ES ISO 2483, ES 804:2012,ES 318:2002,ES 817:2002, ES 609ES1064:2005,CTL/SOP/M014.01
Location: Bole Sub-city wereda 06 Addis Ababa, Ethiopia	ES ISO 663:2007,ES ISO 662:2001,ES ISO 10523:2008, ES 607:2001,ES 607:2001, ES ISO 9297:2014, CES 53:2018 Annex B,ES ISO 10523:2008, ES 607:2001,ES 607:2001,ES ISO 9297:2014 ,ES ISO 7888:2014, ES 319:2002,ES 337:2001,ES 318:2018,ES 334:2001 ES 323:2013,ES 325:2013,CTL/SOP/M014.01
Postal Address: 11145, Addis Ababa,Ethiopia	ES 1069: 2005,ES ISO 11294:2012
Telephone No: +251 (0) 11646 0683	Microbiological Testing: Sitotaw Molajaw, Frehiwot Dagima, Million Sleshi, Tegegne Agalu & Selamawit Abiye
Fax No: +251 (0) 11645 9720	Electrical Testing: Tatek Shiferaw ,Berhanu Sisay, Getahun Alemnew & Mulugeta Addisu
Email: info-tld@eca-e.com	Textile Testing: Ashenafi Ababe, Zerihun Fanosse and Yared Fikre
Website:	Mechanical Testing: Yohanis Kedir, Ayalew Gashaw, Liyew Wudie, Habitamu Mihret and Daniel
	Original date of Accreditation: 29 March 2019
	Issue No: 03
	Date of issue: 14 July 2023
	Expiry date: 28 September 2023

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Field of Testing	Sample	Test Method	Type of tests
Chemical Testing	Vegetable fat and oil	ES ISO 660	Acid Value and Acidity
	Vegetable fat and oil	ES ISO 6320	Refractive Index
	Vegetable fat and oil	ES 56	Refractive Index at 20 ⁰ c
	Edible salt	ES ISO 2481	Chloride as sodium chloride
	Edible salt	East, Central, and Southern Africa health community: Manual of laboratory method for fortified food part 1 (ECSA-HC)	Iodine content
	Edible salt	ES ISO 2480	Sulphate
	Edible salt	ES ISO 2479	Matter insoluble in water
	Edible salt	ES ISO 2483	Loss of mass at 110 ⁰ c
	Fertilizer	AOAC 965.08	Free water
	Fertilizer	AOAC 957.02 and AOAC 962.02	Total phosphorous as P ₂ O ₅
	Fertilizer	AOAC 957.02 and AOAC 962.02	Water-soluble phosphorous as P ₂ O ₅

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Field of Testing	Sample	Test Method	Type of tests
	Flour	ES ISO 2171	Ash content
	Flour	ES ISO 1871:2012	Crude Protein
	Flour	ES ISO 712:2009	Moisture Content
	Flour	ES ISO 7305:2005	Fat acidity
	Liquors	ES 804:2012	Alcohol content
	Liquors	ES 318:2002	Relative Density at 20 ^o c
	Liquors	ES 817:2002	Total solid
	Sugar	ES 985	Conductivity of Ash
	Sugar	ES 985	Moisture content
	Sugar	ES 987	Matter insoluble in water
	Sugar	ES 985	Polarization
	Drinking water	ES 609	Total dissolved solids (TDS)
	Honey	Harmonized method of international method honey commission (HMIHC)	Moisture content
	Honey	HMIHC	Water-insoluble matter
	Honey	HMIHC	Ash content
	Oilseeds	ES 25:2001	Moisture content

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Field of Testing	Sample	Test Method	Type of tests
	Cement	ES 1176-2:2005	Lose of ignition
	Cement	ES 1176-2:2005	Sulphate
	Cement	ES 1176-2:2005	Insoluble matter
	Biscuit	ES1064:2005	Moisture
		CTL/SOP/M014.01	Protein
	Animal and vegetable fats and oils products	ES ISO 663:2007	Insoluble impurities
		ES ISO 662:2001	Moisture & volatile matter
	Fruits and vegetable products	ES ISO 10523:2008	pH value
		ES 607:2001	Soluble solids
		ES 607:2001	Titrateable acidity (Reference method)
		ES ISO 9297:2014	Titrateable acidity (Routine method)
	Soft drink	CES 53:2018 Annex B	Brix value
	Water	ES ISO 10523:2008	pH value
		ES 607:2001	Total alkalinity
		ES 607:2001	Total hardness
		ES ISO 9297:2014	Chloride
		ES ISO 7888:2014	Electrical conductivity
	Sugar	ES 985:2012 annex B	Moisture contents % by mass
	Pasta (Macaroni, Spaghetti, and Noodle)	CTL/SOP/M014.01	Protein
		ES 1069: 2005	Moisture
	Fertilizer	ES 402:2008	pH

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Field of Testing	Sample	Test Method	Type of tests
	Wine	ES 319:2002	Alcohol content
		ES 337:2001	Free sulfur dioxide
		ES 318:2018	Relative density
		ES 334:2001	Sulfate
		ES 323:2013	Total acidity
		ES 325:2013	Total volatile acidity
	Roasted ground coffee	ES ISO 11294:2012	Moisture
	Milk powder	CTL/SOP/MO31.01	Moisture content % by mass
		CTL/SOP/M014.01	Protein content % by mass
	Teff flour	ES ISO712:2012	Moisture content % by mass
		CTL/SOP/M014.01	Protein content % by mass
	Soya bean	ES 478:2012	Moisture content % by mass
		ESISO 659:2012	Oil content % by mass
		CTL/SOP/M014.01	Protein content % by mass
	Animal Feed	ES 1032-1:2019	Moisture % by mass
		ES 1032-1:2019	Protein % by mass
		ES 1032-1:2019	Fat content % by mass
		ES 1032-1:2019	Acid insoluble ash % by mass
	Sugar	ES 985:2012 annex B	Moisture contents % by mass
	Sesame seed	ESISO 659:2012	Oil content % by mass

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Field of Testing	Sample	Test Method	Type of tests
	Beeswax	ES 1203:2018 annex F	Acid value
			Saponification
		ES 1203:2018 annex GES 1203:2018 annex C	Refractive index
		ES 1203:2018 annex H	Ester value
		ES 1203:2018 annex D	Ash % by mass
		ES 1203:2018 annex F	Acid value
		ES 1203:2018 annex G	Saponification
	Toilet and laundry soap	ES ISO 685:2013	Total fatty matter
		ES ISO 673:2013	Ethanol insoluble matter
		ES ISO 456:2001	Chloride content
		ES ISO 672:2001	Free caustic alkali Moisture and volatile content

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Field of Testing	Sample	Test Method	Type of tests
	Detergent powder	ES ISO 2271:2001	Anionic active matter
		CES 105:Annex B8CES	pH value
		105:Annex B4	moisture content
		CES 105:Annex B6 CES 105:Annex B10	ethanol insoluble water-insoluble
Microbiological testing	Food	ES ISO 4833	Total Plate count
		ES ISO 21527-1	Enumeration of yeast and molds
		ES ISO 21527-2	Enumeration of yeast and molds
	Food	ES ISO 4831	Detection and Enumeration of coliforms (MPN)
	Water	ES ISO 6222	Total plate count
	Food and water	ES ISO 6579	Detection of salmonella
	Food and water	ES ISO 6888-1	Enumeration of coagulase-positive staphylococci
	Food	ES ISO 7932:2009	Enumeration of Presumptive B. cereus,
		ES ISO 7937:2012	Enumeration of C. perfringens,
		ISO 7251: 2005	Enumeration of Presumptive E.coli-MPN,
	ES ISO 21567:2014	Detection of Shigella,	

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Field of Testing	Sample	Test Method	Type of tests
Electrical Testing	Conductor Resistance	ES IEC 60228:2004-11	Conductor Resistance of insulating cables
	Integrated sphere	CES 116:2016	luminous flux
		CES 117:2016	Power
	Integrated sphere	CES 119	luminous flux
		CES 118	Power
Textile Testing	Fibbers, Yarns, Fabrics, garments, and textile products	IS 667:1981 and ES ISO 1833:2012	Fibber identification and material composition
	Fabric	ES ISO 3801	Gramm age
		ES ISO 105x-12	Colourfastness rubbing
		ES ISO 3071	PH value
		ES ISO 7211-2	Contraction of fabrics/number of threads
Mechanical	spectrometer	ES ISO 15630-1	C,Si, Mn ,P,S,N

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