

Ethiopian Standards Approved on 04th of August 2016

1. AGRICULTURE AND FOOD SECTOR

1.1. TC 16: Seeds

S. N	Document Title	Designation Numbers	Newly Developed	Systematically Reviewed		
		Ethiopian Standard Designation		Reaffirmed	Revised	Withdrawn
1	Vegetative propagated Quality declared apple seed - specification	ES 03924-40:2016	✓			
2	Vegetative propagated Quality declared Avocado seed -Specification	ES 03924-41:2016	✓			
3	Vegetatively propagated quality declared banana seed- specification	ES 03924-43:2016	✓			
4	Vegetative Propagated Quality Declared Cassava seed- specification	ES 03924-52:2016	✓			
5	Coffee seed — Specification	ES 03924-42:2016	✓			
6	Quality Declared Seed (QDS) Dekeko – Specification	ES 03924-37:2016	✓			
7	Quality Declared Seed (QDS) – Part 38: Mung bean – Specification	ES 03924-38:2016	✓			
8	Quality Declared Seed (QDS) – Part 39: Pearl millet – Specification	ES 03924-39:2016	✓			
9	Quality Declared Fenugreek Seed– Specification	ES 03924-44:2016	✓			

10	Vegetatively Propagated ginger quality declared Seed- Specification	ES 03924-45:2016	✓			
11	Vegetative propagated Quality declared Mango seed -Specification	ES 03924- 46:20163	✓			
12	Vegetative propagated Quality declared sweet orange seed -Specification	ES03924-47:2016	✓			
13	Quality declared Papaya Seed - Specification	ES 03924-48:2016	✓			
14	Vegetative propagated Quality declared pineapple (Ananas Comosus Merr.) Seed - Specification	ES 03924-49:2016	✓			
15	Vegetative propagated Quality declared Taro seed– specification	ES 03924-50:2016	✓			
16	Vegetative propagated Quality declared Yam seed –specification	ES 03924-51:2016	✓			
17	Vegetative propagated Cassava seed- Specification	ES 04070:2016	✓			
18	Field pea and Dekeko seed- Specification	ES0424:2016			✓	
19	Open pollinated Rice seed- Specification	ES 0493:2016			✓	
20	Mung bean (green gram) seed- Specification	ES 04073:2016	✓			
21	Pearl millet seed- Specification	ES 04067:2016	✓			

22	Cotton hybrid seed- Specification	ES 04068:2016	✓			
23	Rice hybrid seed- Specification	ES 04069:2016	✓			
24	Vegetative Propagated Sweet potato Seed- Specification	ES 04071:2016	✓			
25	Formal seed multiplication – Vegetative Propagated Potato Seed- Specification	ES 0494:2016			✓	
26	Linseed- Specification	ES 0437 :2016			✓	
27	Wheat seed –Specification	ES 0414:2016			✓	
28	Barley seed – Specification	ES 0415:2016			✓	
29	Open Pollinated Sorghum Seed- Specification	ES 0417:2016			✓	
30	Hybrid Sorghum seed- Specification	ES 0418:2016			✓	
31	Open Pollinated maize seed- Specification	ES 0419:2016			✓	
32	Hybrid Maize seed- Specification	ES 0420:2016			✓	
33	Chick pea seed- Specification	ES 0425:2016			✓	
34	Soya bean seed- Specification	ES 427:2016			✓	
35	Haricot bean seed- Specification	ES 0429:2016			✓	
36	Lentil seed- Specification	ES 0430:2016			✓	
37	Ground nut seed- Specification	ES 0431:2016			✓	
38	Open Pollinated sun flower seed- Specification	ES 0432:2016			✓	
39	Sun flower hybrid seed- Specification	ES 0433:2016			✓	

40	Open pollinated Cotton seed- Specification	ES 0441:2016			✓	
41	Ethiopian Mustard and Rape seed / Canola -Specification	ES 0434:2016			✓	
42	Seed Terminology	ES 0413:2016			✓	
43	Seed Sampling	ES 0471:2016			✓	
44	Seed purity analysis	ES 0472:2016			✓	
45	Seeds- Determination of other seeds by number	ES 0473:2016			✓	
46	Seed germination test	ES 0474:2016			✓	
47	Seed Variety purity testing Using control plot test	ES 0477:2016			✓	
48	Seed Determination of moisture content	ES 0478:2016			✓	

2. CHEMICAL AND CHEMICAL PRODUCTS SECTOR

2.1. TC 58: Rubber and Plastics

S. N	Document Title	Ethiopian Standard Designation	Newly Developed	Systematically Reviewed		
				Reaffirmed	Revised	Withdrawn
1	Plastics pipes and fittings — Equipment for fusion jointing polyethylene systems — Part 4: Traceability coding	ES ISO 12176- 4:2016	✓			

2	Plastics pipes and fittings— Crosslinked polyethylene (PE-X) pipe systems for the conveyance of gaseous fuels— Metric series— Specifications— Part1:Pipes	ES ISO 14531-1:2016	√			
3	Plastics pipes and fittings — Crosslinked polyethylene (PE-X) pipe systems for the conveyance of gaseous fuels — Metric series — Specifications — Part 2: Fittings for heat-fusion jointing	ES ISO 14531-2:2016	√			
4	Plastics pipes and fittings — Crosslinked polyethylene (PE-X) pipe systems for the conveyance of gaseous fuels — Metric series — Specifications — Part 3: Fittings for mechanical jointing (including PE-X/metal transitions)	ES ISO 14531-3:2016	√			
5	Plastics pipes and fittings — Crosslinked polyethylene (PE-X) pipe systems for the conveyance of gaseous fuels — Metric series — Specifications — Part 4: System design and installation guidelines	ES ISO 14531-4:2016	√			
6	Rubber hose and hose assemblies for oil suction and discharge service — Specification	ES ISO 1825:2016	√			
7	Rubber and plastic hoses and hose assemblies for measured fuel dispensing systems — Specification	ES ISO 5772:2016	√			

8	Rubber Seals - Joint rings used for gas supply pipes and fittings – Specification for material	ES ISO 6447:2016	√			
9	Rubber Seals - Joint rings used for Petroleum product supply pipes and fittings - Specification for material	ES ISO 6448:2016	√			
10	Rubber hoses and hose assemblies for dispensing liquefied petroleum gases (LPGs) — Specification	ES ISO 11759:2016	√			
11	Plastics pipes and fittings — Equipment for fusion jointing polyethylene systems — Part 2: Electro fusion	ES ISO 12176-2:2016	√			

2.2. TC 60: Chemicals and Related Technology

S. N	Document Title	Ethiopian Standard Designation	Newly Developed	Systematically Reviewed		
				Reaffirmed	Revised	withdrawn
1	Standard Specification for Sodium Bicarbonate	ES 4080:2016	√			
2	Standard Specification for Sodium Chloride	ES 4081:2016	√			
3	Standard Test Methods for Chemical Analysis of Sodium Chloride	ES 4082:2016	√			
4	Standard Test Methods of Sampling and Chemical Analysis of Alkaline Detergents	ES 4083:2016	√			

3. CONSTRUCTION AND CIVIL ENGINEERING SECTOR
3.1. TC 35: Cement, Lime and Gypsum

S. N	Document Title	Ethiopian Standard Designation	Newly Developed	Systematically Reviewed		
				Reaffirmed	Revised	Withdrawn
1	Specification for Gypsum	ES 04084:2016	✓			
2	Terminology Relating to Gypsum and Related Building Materials and Systems	ES 04085:2016	✓			
3	Specification for Gypsum Plasters	ES 04086:2016	✓			
4	Specification for Inorganic Aggregates for Use in Gypsum Plaster	ES 04087:2016	✓			
5	Test Methods for Chemical Analysis of Gypsum and Gypsum Products (Metric)	ES 040884006:2016	✓			
6	Test Methods for Physical Testing of Gypsum, Gypsum Plasters and Gypsum Concrete	ES 04007:2016	✓			
7	Test Methods for Physical Testing of Gypsum Panel Products	ES 04008:2016	✓			
8	Specification for Joint Compound and Joint Tape for Finishing Gypsum Board	ES 04009:2016	✓			
9	Specification for Application of Interior Gypsum Plaster	ES 04010:2016	✓			
10	Specification for Glass Mat Gypsum Substrate for Use as Sheathing	ES 04011:2016	✓			

11	Specification for Coated Glass Mat Water-Resistant Gypsum Backing Panel	ES 04012:2016	✓			
12	Test Methods for Sampling and Testing Non-Asbestos Fiber-Cement Flat Sheet, Roofing and Siding Shingles, and Clap boards	ES 04013:2016	✓			
13	Specification for Sampling, Inspection, Rejection, Certification Packaging, Marking, Shipping, Handling, and Storage of Gypsum Panel Products	ES 04014:2016	✓			
14	Specification for Application of Exterior Gypsum Panel Products for Use as Sheathing	ES 04015:2016	✓			
15	Specification for Gypsum Board	ES 04016:2016	✓			
16	Classification for Abuse-Resistant Non decorated Interior Gypsum Panel Products and Fiber-Reinforced Cement Panels	ES 04017:2016	✓			
17	Specification for Glass Mat Gypsum Panels	ES 04018:2016	✓			
18	Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials	ES 04019:2016	✓			
19	Test Method for Surface Burning Characteristics of Building Materials	ES 04020:2016	✓			
20	Test Methods for Water Vapor Transmission of Materials	ES 04021:2016	✓			
21	Test Methods for Fire Tests of Building Construction and Materials	ES 04022:2016	✓			
22	Specification for Magnesium-Alloy Sheet and Plate	ES 04023:2016	✓			

	Self-supporting metal sheet for roofing, external cladding and internal lining - Product specification and requirements	ES 03934:2016	✓			
23	Specification for Magnesium Alloy Anodes for Cathodic Protection	ES 04024:2016	✓			
24	Specification for Granite Dimension Stone	ES 04025:2016	✓			

3.2. TC 37: Ceramic, terracotta building

S. N	Document Title	Ethiopian Standard Designation	Newly Developed	Systematically Reviewed		
				Reaffirmed	Revised	Withdrawn
1.	Glass in building — Determination of the bending strength of glass — Fundamentals of testing glass	ES ISO 1288-1:2016	✓			
2.	Glass in building — Determination of the bending strength of glass Part 2: — Coaxial double-ring test on flat specimens with large test surface areas	ES ISO 1288-2:2016	✓			
3.	Glass in building — Determination of the bending strength of glass Part 3: — Test with specimen supported at two points (four point bending)	ES ISO 1288-3:2016	✓			
4.	Glass in building — Determination of the bending strength of glass — Part 4: Testing of channel shaped glass	ES ISO 1288-4:2016	✓			

5.	Glass in building — Determination of the bending strength of glass Part 5: —Coaxial double ring test on flat specimens with small test surface areas	ES ISO 1288-5:2016	✓			
6.	Road vehicles — Safety glazing materials — Mechanical tests	ES ISO 3537:2016	✓			
7.	Road vehicles — Safety glazing materials — Test methods for resistance to radiation, high temperature, humidity, fire and simulated weathering	ES ISO 3917:2016	✓			
8.	Ceramic tiles —Part 1: Sampling and basis for acceptance	ES ISO 10545-1:2016			✓	
9.	Ceramic tiles Part 4: — Determination of modulus of rupture and breaking strength	ES ISO 10545-4:2016			✓	
10.	Ceramic tiles Part 8: — Determination of linear thermal expansion	ES ISO 10545-8:2016			✓	
11.	Glass in building — Curved glass — Part 3: Requirements for curved tempered and curved laminated safety glass	ES ISO 11485-3:2016	✓			
12.	Ceramic tiles — Grouts and adhesives Part 1: — Terms, definitions and specifications for adhesives	ES ISO 13007-1:2016	✓			
13.	Fine ceramics (advanced ceramics, advanced technical ceramics) — Test method for antibacterial activity of semiconducting photo catalytic materials under indoor lighting environment	ES ISO 17094:2016	✓			

14.	Fine ceramics (advanced ceramics, advanced technical ceramics) — Mechanical properties of ceramic composites at room temperature — Determination of flexural strength	ES ISO 17138:2016	✓			
15.	Fine ceramics (advanced ceramics, advanced technical ceramics) — Thermo physical properties of ceramic composites — Determination of thermal expansion	ES ISO 17139:2016	✓			
16.	Fine ceramics (advanced ceramics, advanced technical ceramics) — Mechanical properties of ceramic composites at room temperature — Determination of fatigue properties at constant amplitude	ES ISO 17140:2016	✓			
17.	Fine ceramics (advanced ceramics, advanced technical ceramics) — Mechanical properties of ceramic composites at high temperature in air at atmospheric pressure — Determination of fatigue properties at constant amplitude	ES ISO 17142:2016	✓			
18.	Fine ceramics (advanced ceramics, advanced technical ceramics) — Mechanical properties of monolithic ceramics at room temperature — Determination of compressive strength	ES ISO 17162:2016	✓			
19.	Fine ceramics (advanced ceramics, advanced technical ceramics) — Test method for spherical indentation of porous ceramics	ES ISO 17170:2016	✓			
20.	Fine ceramics (advanced ceramics, advanced technical ceramics) — Determination of drying loss of ceramic granules	ES ISO 17860:2016	✓			

21.	Fine ceramics (advanced ceramics, advanced technical ceramics) — Measurement method of spectral transmittance of fine ceramics thin films under humid condition	ES ISO 17861:2016	✓			
22.	Fine ceramics (advanced ceramics, advanced technical ceramics) — Methods for chemical analysis of boron nitride powders	ES ISO 17942:2016	✓			
23.	Fine ceramics (advanced ceramics, advanced technical ceramics) — Methods for chemical analysis of fine silicon nitride powders	ES ISO 17947:2016	✓			
24.	Fine Ceramics (Advanced Ceramics, Advanced Technical Ceramics) — Determination of antiviral activity of semiconducting photo catalytic materials — Test method using bacteriophage Q-beta	ES ISO 18061:2016	✓			
25.	Fine ceramics (advanced ceramics, advanced technical ceramics) — Test method for air-purification performance of semiconducting photo catalytic materials by test chamber method under indoor lighting environment —Part 1:Removal of formaldehyde	ES ISO 18560-1:2016	✓			
26.	Fine ceramics (advanced ceramics, advanced technical ceramics) — Vocabulary	ES ISO 20507:2016	✓			

3.3. TC 42: Building Structures and Elements

S.N	Document Title	Ethiopian Standard Designation	Newly Developed	Systematically		
				Reviewed		
				Reaffirmed	Revised	Withdrawn
1	Plywood — Vocabulary	ES ISO 2974:2016	✓			
2	Fibber building boards - - Determination of sand content	ES ISO 3340:2016	✓			
3	Wood - based panels — Sampling and cutting of test pieces	ES ISO 16999:2016	✓			
4	Wood - based panels — Fibreboard, particleboard and oriented strand board (OSB) — Vocabulary	ES ISO 17064:2016	✓			
5	Veneers — Terms and definitions, determination of physical characteristics and tolerances	ES ISO 18775:2016	✓			
6	Laminated veneer lumber (LVL) — Specifications	ES ISO 18776:2016	✓			
7	Wood-based panels — Determination of wet bending strength after immersion in water at 70 °C or 100 °C (boiling temperature)	ES ISO 20585:2016	✓			
8	Durability of wood and wood-based products — Use classes	ES ISO 21887:2016	✓			
9	Wood-based panels — Determination of resistance to axial withdrawal of screws	ES ISO 27528:2016	✓			
10	Laminated veneer lumber — Measurement of dimensions and shape — Method of test	ES ISO 27567:2016	✓			

11	Wood - based panels — Wet - process fibreboard — Part 2: Requirements	ES ISO 27769-2:2016	✓			
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4. LEATHER AND TEXTILE SECTOR

4.1. TC 71: Textiles in general

S.N	Document Title	Ethiopian Standard Designation	Newly Developed	Systematically Reviewed		
				Reaffirmed	Revised	Withdrawn
1	Textiles — Determination of antifungal activity of textile products —Part 1: Luminescence method	ES ISO 13629-1:2016	✓			
2	Textiles — Determination of antifungal activity of textile products —Part 2: Plate count method	ES ISO 13629-2:2016	✓			
3	Textiles — Determination of formaldehyde — Part 1: Free and hydrolyzed formaldehyde (water extraction method)	ES ISO 14184-1:2016	✓			

4	Textiles — Determination of formaldehyde — Part 2: Released formaldehyde (vapour absorption method)	ES ISO 14184-2:2016	✓			
5	Textiles — Determination of antiviral activity of textile products	ES ISO 18184:2016	✓			
6	Textiles — Determination of moisture drying rate	ES ISO 17617:2016	✓			
7	Textiles — Determination of spirality after laundering — Part 1: Percentage of wale spirality change in knitted garments	ES ISO 16322-1:2016	✓			
8	Textiles —Determination of spirality after laundering — Part 2: Woven and knitted fabrics	ES ISO 16322-2:2016	✓			
9	Textiles —Determination of spirality after laundering — Part 3: Woven and knitted garments	ES ISO 16322-3:2016	✓			
10	Textiles—Determination of resistance of cellulose-containing textiles to micro-organisms—Soil burial test— Part1:Assessment of rot-retardant finishing	ES ISO 11721-1:2016	✓			
11	Textiles — Determination of the resistance of cellulose-containing textiles to micro-organisms — Soil burial test — Part 2: Identification of long-term resistance of a rot retardant finish	ES ISO 11721-2:2016	✓			
12	Textiles- Determination of the fabric propensity to surface pilling, fuzzing or matting —Part 3: Random tumble pilling method	ES ISO 12945-3:2016	✓			

13	Textiles — Method for assessing appearance of apparel and other textile end products after domestic washing and drying	ES ISO 15487:2016	✓			
14	Textile machinery -Square bars for winding devices relating to dyeing and finishing machines -Dimensions	ES ISO 10458: 2016	✓			
15	Textiles - Tests for colour fastness - Part X04: Colour fastness to mercerizing	ES ISO 105-X04: 2016	✓			
16	Wool -Colorimetric determination of cystine plus cysteine in hydrolysates	ES ISO 2913: 2016	✓			
17	wool - Determination of cysteic acid content of wool hydrolysates by Paper electrophoresis and colorimetry	ES ISO 2915: 2016	✓			
18	Textiles — Methods of simulating colour change during actual wear by means of laboratory colour-fastness tests	ES ISO 12116:2016	✓			
19	Textiles-professional care, dry cleaning and wet cleaning of fabrics and garments Part 1:Assessment of performance after cleaning and finishing	ES ISO 3175-1:2016	✓			
20	Textiles — Standard data format for colorimetric communication — Textiles and related measurements	ES ISO 10617:2016	✓			
21	Textiles — Measurement of exothermic and endothermic properties of textiles under humidity change	ES ISO 16533:2016	✓			

5. ELECTRO MECHANICAL SECTOR

5.1. TC 50: Tractors, Machinery for Agriculture and Forestry

S.N	Document Title	Ethiopian Standard Designation	Newly Developed	Systematically Reviewed		
				Reaffirmed	Revised	Withdrawn
1.	Agricultural machinery- requirements and test methods for power tiller trailer axle with brake	ES 04026:2016	✓			
2.	Multipurpose single axle tractor- safety and comfort requirement and test procedures	ES 04027:2016	✓			
3.	power tillers- installation & preventive maintenance guide lines	ES 04028:2016	✓			
4.	Tractor- trailer specification.	ES 04029:2016	✓			
5.	power tiller -dimension of hitch	ES 04030:2016	✓			
6.	Agricultural Tractors -Technical requirement of for wet land cultivation	ES 04031:2016	✓			
7.	agricultural machinery-specification and test method for hand grip for power tiller	ES 04032:2016	✓			
8.	Agricultural Machinery-Track width Requirements for General Purpose Agricultural Tractors	ES 04033:2016	✓			
9.	Agricultural machinery -tractor silencers technical requirements and test method	ES 04034:2016	✓			
10.	Testing of agricultural and forestry tractor performance	ES 04035:2016	✓			
11.	Agricultural Machinery- manually-operated forage chopper specification	ES 04036:2016	✓			
12.	Agricultural machineries- specification for power-operated forage chopper	ES 04037:2016	✓			
13.	Agricultural machineries- Specification for Baler	ES 04038:2016	✓			

14.	Agricultural Machineries- Specification of Blades For Feed Chopper	ES 04039:2016	✓			
15.	agricultural - specifications of rubber roll for paddy polisher -	ES 04040:2016	✓			
16.	Agricultural Machineries- Specification for Paddy Dehusker	ES 04041:2016	✓			
17.	Agricultural machinery – Specification for rice polisher	ES 04042:2016	✓			
18.	Agricultural Machinery – Specification for combine harvester	ES 04043:2016	✓			
19.	Agricultural Machineries- Specification for Guards for harvesting machines	ES 04044:2016	✓			
20.	agricultural machinery- specification for knife sections for harvesting machines	ES 04045:2016	✓			
21.	agricultural machinery- specification of knife back for harvesting machines	ES 04046:2016	✓			
22.	agricultural machinery- specification for self propelled reaper binder harvesting machines	ES 04047:2016	✓			
23.	Agricultural machinery- specification for tractor attached reaper binder crop harvester	ES 4048:2016	✓			
24.	Agricultural machinery- Specification for powered maize shellers	ES 04049:2016	✓			
25.	Agricultural machinery – Specification for powered thresher	ES 04050:2016	✓			
26.	pedal operated maize Sheller	ES 04051:2016	✓			
27.	Specification for Pedal - Operated Paddy Threshers	ES 04052:2016	✓			

28.	Agricultural Machinery - Soil Working Equipment - Animal Drawn Mold-board plough-Specification	ES 04053:2016	✓			
29.	Agricultural machinery -Specification of Share for Tractor-Operated Mould board Ploughs	ES 04054:2016	✓			
30.	Agricultural machineries-tractor operated disc harrows specification	ES 04055:2016	✓			
31.	Agricultural machinery- plain spool for tractor operated disc harrow -specification	ES 04056:2016	✓			
32.	Agricultural Machinery - Specification for Tractor-Operated Disc Ploughs	ES 04057:2016	✓			
33.	Agricultural Machinery - Hydraulic power sprayers-specification	ES 04058:2016	✓			
34.	Agricultural machinery-seed with fertilizer drill specification	ES 04059:2016	✓			
35.	Agricultural Machinery - Moldboard Plow Specifications	ES 04060:2016	✓			
36.	Agricultural Machinery - Row Crop Planter - Specifications	ES 04061:2016	✓			
37.	Methods for calibration of sprayers	ES 04062:2016	✓			
38.	Agricultural machinery- test code for disc harrow	ES 04063:2016	✓			
39.	Test Code for Agricultural Discs	ES 04064:2016	✓			
40.	Methods of test for manually operated sprayers	ES 04065:2016	✓			

41.	Air-assisted agricultural sprayers - Data sheets - Part 2: Technical specifications related to components	ES ISO_13441-2_2016	✓			
42.	Equipment for crop protection - Air-assisted sprayers - Dimensions of nozzle swivel nuts	ES ISO 14710:2016	✓			
43.	Agricultural and forestry machinery — Environmental requirements for sprayers part 1- General	ES ISO 16119-1:2016	✓			
44.	Agricultural and forestry machinery — Environmental requirements for sprayers part 2— Horizontal boom sprayers	ES ISO 16119-2:2016	✓			
45.	Agricultural and forestry machinery — Environmental requirements for sprayers part 3— Sprayers for bush and tree crops	ES ISO 16119-3:2016	✓			
46.	Agricultural and forestry machinery — Environmental requirements for sprayers part 4—Fixed and semi-mobile sprayers	ES ISO 16119-4:2016	✓			
47.	Crop protection equipment — Drift classification of spraying equipment — Part 2: Classification of field crop sprayers by field measurements	ES ISO 22369-2:2016	✓			
48.	Agricultural machinery — Equipment for sowing — Minimization of the environmental effects of fan exhaust from pneumatic systems	ES ISO 17962:2016	✓			
49.	Agricultural tractors — Requirements for steering	ES ISO 10998:2016	✓			
50.	Agricultural and forestry tractors - Roll-over protective structures on narrow track wheeled tractors Part 1: Front-mounted ROPS	ES ISO 12003-1:2016	✓			

51.	Agricultural and forestry tractors - Roll-over protective structures on narrow track wheeled tractors Part 2: Rear-mounted ROPS	ES ISO 12003-2:2016	✓			
52.	Self-propelled agricultural machinery — Assessment of stability —Part.1: Principles	ES ISO 16231-1:2016	✓			
53.	Agricultural machinery - Guards for moving parts of power transmission - Guard opening with tool	ES ISO/TS 28923:2016	✓			
54.	Agricultural machinery - Guards for moving parts of power transmission Guard opening without tool	ES ISO/TS 28924:2016	✓			
55.	Agricultural grain driers - Determination of drying performance - Part 1: General	ES ISO 11520-1:2016	✓			
56.	Agricultural grain driers—Determination of drying performance — Part 2:Additionalprocedures and crop-specific requirements	ES ISO 11520-2:2016	✓			
57.	Agricultural sprayers — Boom steadiness — Test methods	ES ISO 14131:2016	✓			
58.	Equipment for crop protection - Vocabulary	ES ISO 5681:2016	✓			
59.	Agricultural sprayers - Data sheet - Part 1: Typical layout	ES ISO 10627-1:2016	✓			
60.	Air-assisted agricultural sprayers - Data sheets – Part 1: Typical layout	ES ISO 13441-1:2016	✓			
61.	Agricultural and forestry machinery — Inspection of sprayers in use — part 1:General	ES ISO 16122-1:2016	✓			
62.	Agricultural and forestry machinery — Inspection of sprayers in use — part 2: Horizontal boom sprayers	ES ISO 16122-2:2016	✓			

63.	Agricultural and forestry machinery — Inspection of sprayers in use — Part 3: Sprayers for bush and tree crops	ES ISO 16122-3:2016	✓			
64.	Agricultural and forestry machines — Inspection of sprayers in use —part 4:Fixed and semi-mobile sprayers	ES ISO 16122-4:2016	✓			
65.	Crop protection equipment — Test method for the determination of drainable volume and its concentration	ES ISO 16236:2016	✓			
66.	Crop protection equipment — Test methods for the evaluation of cleaning systems — Part 1: Internal cleaning of complete sprayers	ES ISO 22368-1:2016	✓			
67.	Crop protection equipment — Test methods for the evaluation of cleaning systems — Part 2: External cleaning of sprayers	ES ISO 22368-2:2016	✓			
68.	Crop protection equipment — Test methods for the evaluation of cleaning systems — Part 3: Internal cleaning of tank	ES ISO 22368-3:2016	✓			
69.	Equipment for crop protection — Method for measurement of potential spray drift from horizontal boom sprayers by the use of a test bench	ES ISO 22401:2016	✓			
70.	Crop protection equipment — Spray deposition test for field crop — part 1:Measurement in a horizontal plane	ES ISO 24253-1:2016	✓			
71.	Crop protection equipment — Spray deposition test for field crop —part 2:Measurement in a crop	ES ISO 24253-2:2016	✓			
72.	Crop protection equipment— Droplet-size spectra from atomizers— Measurement and classification	ES ISO 25358:2016	✓			

73.	Crop protection equipment — Traceability — Spray parameter recording	ES ISO 11356:2016	✓			
74.	Agricultural machinery — Safety — part1:General requirements	ES ISO 4254-1:2016	✓			
75.	Agricultural tractors - Test procedures - Part 1: Power tests for power take-off	ES ISO 789-1:2016	✓			
76.	Agricultural tractors - Test procedures - Part 2: Rear three-Point linkage lifting capacity	ES ISO 789-2:2016	✓			
77.	Agricultural tractors - Test procedures - Part 3: Turning and clearance diameters	ES ISO 789-3:2016	✓			
78.	Agricultural tractors - Test procedures - Part 4 : Measurement of exhaust smoke	ES ISO 789-4:2016	✓			
79.	Agricultural tractors - Test procedures - Part 5: Partial power PT0 - Non- mechanically transmitted power	ES ISO 789-5:2016	✓			
80.	Agricultural tractors - Test procedures - Part 6 : Centre of gravity	ES ISO 789-6:2016	✓			
81.	Agricultural tractors - Test procedures - Part 7: Axle power determination	ES ISO 789-7:2016	✓			
82.	Agricultural tractors - Test procedures - Part 8: Engine air cleaner	ES ISO 789-8:2016	✓			
83.	Agricultural tractors - Test procedures - Part 9: Power tests for drawbar	ES ISO 789-9:2016	✓			
84.	Agricultural tractors — Test procedures — Part 10: Hydraulic power at tractor/implement interface	ES ISO 789-10:2016	✓			
85.	Agricultural tractors - Test procedures - Part 11: Steering capability of wheeled tractors	ES ISO 789-11:2016	✓			
86.	Agricultural tractors—Test procedures— Part 12: Low temperature starting	ES ISO 789-12:2016	✓			

87.	Tractors, machinery for agriculture and forestry, powered lawn and garden equipment — Operator's manuals — Content and format	ES ISO 3600:2016	✓			
88.	Tractors, machinery for agriculture and forestry, powered lawn and garden equipment — Symbols for operator controls and other displays —Part 1: Common symbols	ES ISO 3767-1:2016	✓			
89.	Tractors, machinery for agriculture and forestry, powered lawn and garden equipment — Symbols for operator controls and other displays — Part 2: Symbols for agricultural tractors and machinery	ES ISO 3767-2:2016	✓			
90.	Agricultural wheeled tractors - Maximum speeds - Method of determination speed - Method of determination	ES ISO 3965:2016	✓			
91.	Agricultural wheeled tractors - Operator's seat - Laboratory measurement of transmitted vibration	ES ISO 5611:2016	✓			
92.	Trailed agricultural vehicles - Brakes and braking devices - Laboratory test method	ES ISO 5696:2016	✓			
93.	Agricultural wheeled tractors - Maximum speeds - Method of determination speed - Method of determination	ES ISO 8002:2016	✓			
94.	Agricultural wheeled tractors - Maximum speeds - Method of determination speed - Method of determination	ES ISO 8947:2016	✓			
95.	Mechanical vibration - Laboratory method for evaluating vehicle seat vibration - Part 1:Basic requirements	ES ISO 10326-1:2016	✓			
96.	Agricultural tractors and machinery - Coding of remote hydraulic power Services and controls	ES ISO 11471:2016	✓			

97.	Tractors and machinery for agriculture and forestry — Serial control and communications data network — Part 1: General standard for mobile data communication	ES ISO 11783-1:2015	✓			
98.	Tractors and machinery for agriculture and forestry — Serial control and communications data network — part 3:Data link layer	ES ISO 11783-3:2015	✓			
99.	Tractors and machinery for agriculture and forestry — Serial control and communications data network — Part 4: Network layer	ES ISO 11783-4:2015	✓			
100.	Tractors and machinery for agriculture and forestry — Serial control and communications data network — Part 5: Network management	ES ISO 11783-5:2015	✓			
101.	Tractors and machinery for agriculture and forestry — Serial control and communications data network — Part 6: Virtual terminal	ES ISO 11783-6:2016	✓			
102.	Tractors and machinery for agriculture and forestry - Serial control and communications data network - Part 7: Implement messages application layer	ES ISO 11783-7:2016	✓			
103.	Tractors and machinery for agriculture and forestry - Serial control and communications data network Part 8: Power train messages	ES ISO 11783-8:2016	✓			
104.	Tractors and machinery for agriculture and forestry - Serial control and communications data network -Part 9: Tractor ECU	ES ISO 11783-9:2016	✓			
105.	Tractors and machinery for agriculture and forestry — Serial control and communications data network — Part 10: Task controller and management information system data interchange	ES ISO 11783-10:2015	✓			

106.	Tractors and machinery for agriculture and forestry - Serial control and communications data network - Part 11: Mobile data element dictionary	ES ISO 11783-11:2016	✓			
107.	Tractors and machinery for agriculture and forestry — Serial control and communications data network — Diagnostics services	ES ISO 11783-12:2015	✓			
108.	Tractors and machinery for agriculture and forestry — Serial control and communications data network — Part 13: File server	ES ISO 11783-13:2015	✓			
109.	Tractors and machinery for agriculture and forestry - Serial control and communications data network Part 14: Sequence control	ES ISO 11783-14:2016	✓			
110.	Agricultural vehicles - Mechanical hook type connections on towing vehicles. Test methods and requirements	ES ISO 12368:2016	✓			
111.	Tractors and self-propelled machines for agriculture and forestry — Operator enclosure environment —Part 2:Heating, ventilation and air-conditioning test method and performance	ES ISO 61951-2:2016	✓			
112.	Tractors and self-propelled machines for agriculture and forestry — Operator enclosure environment —Part 3: Determination of effect of solar heating	ES ISO 14692-3:2016	✓			
113.	Agricultural trailers - Balanced and semi-mounted trailers - Determination of payload, vertical static load and axle load	ES ISO 19700:2016	✓			
114.	Agricultural machinery and tractors — Safety of highly automated machinery	ES ISO 18497:2016	✓			
115.	Tractors for agriculture and forestry — Falling object protective structures — Test procedures and performance requirements	ES ISO 27850:2016	✓			

5.2 TC 54: Road Vehicles

S.N	Document Title	Ethiopian Standard Designation	Newly Developed	Systematically Reviewed		
				Reaffirmed	Revised	Withdrawn
1	Road Vehicle –Urban Midi bus - Requirements	ES 03971:2016	✓			
2	Road -Vehicle Urban Full Size Bus- Requirements	ES 03972:2016	✓			
3	Road Vehicle- Urban Articulated BUS-Requirements	ES 03973:2016	✓			
4	Road Vehicle – Urban Public Bus – Intelligent transport system- Requirements	ES 03974:2016	✓			
5	Road Vehicle - Urban Large Size School Bus -Requirements	ES 04002:2016	✓			
6	Road Vehicle –Urban Small Size School Bus -Requirements	ES 04004:2016	✓			
7	Road Vehicle – Urban Medium Size School Bus -Requirements	ES 04003:2016	✓			

8	Road transport services - Urban Public Bus - Code of conduct	ES 04005:2016	✓			
9	Road transport services – school Bus - Code of conduct	ES 04006:2016	✓			

6. BASIC AND GENERALITIES

6.1. TC 5: Management and System

S.N	Document Title	Ethiopian Standard Designation	Newly Developed	Systematically Reviewed		
				Reaffirmed	Revised	Withdrawn
1	Management system-Integrated Right of Way Project Management – Requirements	ES 04074:2016	✓			
2	Right of Way Integrated Project Management – Principles and Guidelines	ES 04075:2016	✓			

6.2. TC 6: Packaging and Distribution of goods

S.N	Document Title	Ethiopian Standard Designation	Newly Developed	Systematically Reviewed		
				Reaffirmed	Revised	Withdrawn
1	Specification for corrugated Fibre board boxes for packaging rose flower	CES 102			✓	
2	Packaging – Paper and fibreboard Packaging-- Design of cartons	ES 04079:2016	✓			
3	Packaging – Packaging’s manufactured from corrugated or solid fibreboard- Types and construction	ES 04078:2016	✓			
4	Standard Practice for Fabrication on Fibreboard Shipping Boxes	ES 04077:2016	✓			
5	Standard Specification for Corrugated and Solid Fibreboard Sheet Stock(Container Grade) and Cut Shapes	ES 04076:2016	✓			

6.3. TC 75: Measuring Instruments and Calibration

S.N	Document Title	Ethiopian Standard Designation	Newly Developed	Systematically Reviewed		
				Reaffirmed	Revised	Withdrawn
1	Viscosity of water	ES ISO 3666:2016	✓			
2	Piston-operated volumetric instruments — Determination of uncertainty for volume measurements made using the photometric method	ES ISO 16153:2016	✓			

3	Determination of uncertainty for volume measurements made using the gravimetric method	ES ISO 20461:2016	✓			
4	Mechanical vibration and shock — Vibration of fixed structures — Guidelines for the measurement of vibrations and evaluation of their effects on structures	ES ISO 4866:2016	✓			
5	Electro dynamic vibration generating systems — Performance characteristics	ES ISO 5344:2016	✓			
6	Hydrometry — Measurement of discharge by the ultrasonic (acoustic) method	ES ISO 6416:2016	✓			
7	Laboratory glassware - Disposable micropipettes	ES ISO 7550:2016	✓			
8	Laboratory glassware - Disposable Pasteur pipettes	ES ISO 7712:2016	✓			
9	Piston-operated volumetric apparatus—Part1:Terminology, general requirements and user recommendations	ES ISO 8655-1:2016	✓			
10	Piston-operated volumetric apparatus—Part2:Piston pipettes	ES ISO8655-2:2016	✓			
11	Piston-operated volumetric apparatus—Part3:Piston burettes	ES ISO 8655-3:2016	✓			
12	Piston-operated volumetric apparatus—Part4:Dilutors	ES ISO 8655-4:2016	✓			
13	Piston-operated volumetric apparatus—Part5:Dispensers	ES ISO 8655-5:2016	✓			

14	Piston-operated volumetric apparatus—Part6:Gravimetric methods for the determination of measurement error	ES ISO 8655-6:2016	✓			
15	Piston-operated volumetric apparatus — Part 7: Non-gravimetric methods for the assessment of equipment performance	ES ISO 8655-7:2016	✓			
16	Measuring methods for building - General principles and procedures for the verification of dimensional compliance	ES ISO 7077:2016	✓			
17	Optics and optical instruments — Field procedures for testing geodetic and surveying instruments —Part 1: Theory	ES ISO 17123-1:2016	✓			
18	Optics and optical instruments—Field procedures for testing geodetic and surveying instruments—Part2:Levels	ES ISO 17123-2:2016	✓			
19	Optics and optical instruments—Field procedures for testing geodetic and surveying instruments— Part3:Theodolites	ES ISO 17123-3:2016	✓			
20	Optics and optical instruments — Field procedures for testing geodetic and surveying instruments —Part 4: Electro-optical distance meters (EDM measurements to reflectors	ES ISO 17123-4:2016	✓			
21	Optics and optical instruments — Field procedures for testing geodetic and surveying instruments —Part 5: Total stations	ES ISO 17123-5:2016	✓			

22	Optics and optical instruments — Field procedures for testing geodetic and surveying instruments —Part 6: Rotating lasers	ES ISO 17123-6:2016	✓			
23	Optics and optical instruments — Field procedures for testing geodetic and surveying instruments — Part 7: Optical plumbing instruments	ES ISO 17123-7:2016	✓			
24	Optics and optical instruments — Field procedures for testing geodetic and surveying instruments —Part 8: GNSS field measurement systems in real-time kinematic (RTK	ES ISO 17123-8:2016	✓			
25	Hydrometry — Vocabulary and symbols	ES ISO ISO 772:2016	✓			
26	Mechanical vibration, shock and condition monitoring — Vocabulary	ES ISO 2041:2016	✓			
27	Hydrometry — Water level measuring devices	ES ISO 4373:2016	✓			