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announcer



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Inside Stories



Permanent Secretary Ministry of Industry and Trade, Prof. Riziki Shemdoo (third left) launching Kigoma TBS Zonal office. Looking on from left are Deputy Permanent Secretary Ministry of Industry and Trade Ludovick Nduhiye, TBS Director General Dr. Athuman Ngenya and Kigoma Regional Administrative Secretary Rashid Mchata



VISION

To be a centre of excellence in standardization, quality assurance and metrology services in Africa.

MISSION

To provide and promote standardization, quality assurance and metrology services for sustainable socio-economic development.

QUALITY POLICY

Tanzania Bureau of Standards (TBS) endeavours, as mandated, to deliver quality products and services that include standardization, safety, conformity assessment and metrology by meeting and even exceeding customers' and legal requirements so as to retain their loyalty. TBS provides resources and continually improves her processes to ensure that employees are capable of consistently producing quality products and services at the right time.

CORE VALUE

- a) **Accountable** for quality of service and efficient resource utilization
- b) Dedicated to **working together** towards achieving strategic goals
- c) Committed to demonstrating **transparency** and **integrity**
- d) Focused to meeting **customer needs** and expectations

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TBS role on food safety deserves credit

Ensuring that food is safe for human consumption is the most critical part of the food preparation process both nationally and internationally.

This is because food hygiene or food safety begins with the handling, preparing and storing food or drink in a way that best reduces the risk of consumers becoming sick from food-borne diseases.

It is for that reason that the Tanzania Bureau of Standards (TBS) has established laboratories to ensure that the principles of food safety and quality aim to prevent food from becoming contaminated and causing food poisoning.

Since its inception more than 40 years ago, TBS has ensured that food hygiene is important at home as well as in the restaurant, retail store or food factory.

Today, TBS continues to conduct awareness campaigns on food safety to the general public, and the Tanzanian media; newspapers, radio and television stations are reporting on food recalls and outbreaks much more often.

There are several reasons why food safety as a discipline is of paramount importance. First, if food or drink is not safe to eat, you cannot eat or drink. An example is safe drinking water.

We would never drink water that did not come from a reputable source. So, the same principle applies to food as every day people worldwide get sick from the food or drink they consume. Bacteria, viruses and parasites found in food can cause food poisoning.

The bad thing is that there is no immediate way of telling if food is contaminated because you cannot see, taste or smell anything different from the norm.

Experts in the food industry say food poisoning can lead to gastroenteritis and dehydration or potentially even more serious health problems such as kidney failure and death.

The risk is especially significant for those in the high-risk category; small children/babies, pregnant women, the elderly and immune-compromised, especially HIV infections and cancer patients.

Food hygiene and safety prevent germs from multiplying in foods and reaching dangerous levels. Thus, keeping one healthy and preventing the additional cost of buying medication and medical check-ups is especially important in the food industry.

In championing food hygiene, TBS has been advocating food factories to make and sell food that is safe to eat. The first step the bureau has taken is to educate management and staff to have the knowledge and understanding of what food hygiene and food safety is.

Food products are among the most-traded commodities in Tanzania and worldwide. As markets become increasingly globalised with each passing year, and as the world's population continues to grow, the global food supply chain will only continue to increase in scale and complexity.

It is precisely because of these megatrends influencing the mass production and distribution of food, TBS has been spreading the message of food safety compliance throughout the country.

Globally, every country has different regulatory bodies that preside over the definition and enforcement of domestic food safety standards.

In order to sell or manufacture food products in any given country, domestic and international businesses

alike are subject to the food safety legislation and enforcement measures of that nation.

Around the world, the majority of laws about food safety are based on two concepts: HACCP and GMP:

HACCP – Hazard Analysis and Critical Control Points is a systemic, risk-based approach to preventing the biological, chemical, and physical contamination of food in production, packaging, and distribution environments. The HACCP concept is designed to counter health hazards by identifying potential food safety problems before they happen, rather than inspect food products for hazards after the impact. The HACCP concept entails controlling for contaminants at a number of key junctures in the food production process and strict adherence to hygiene practices throughout.

GMP – Good Manufacturing Practices are internationally recognized quality assurance guidelines for the production of food, beverages, cosmetics, pharmaceuticals, dietary supplements, and medical devices. These guidelines lay out the protocols which manufacturers must implement to assure that their products are consistently high-quality from batch to batch and safe for human use, including mandatory product inspection at critical control points.

On its part, TBS has been providing comprehensive guidelines for auditing food manufacturers on the basis of food safety and hygiene. The guidelines facilitate the food trade by helping food industry players to ensure that food quality and safety standards are met in a way that transcends borders.

In addition to complying with the food safety laws, TBS has pursued certification to ensure that consumers are kept safe from food poisoning.

Awareness campaign reaches over 8000 in Southern Highlands Zone

By Gladness Kaseka

Tanzania Bureau of Standards (TBS) has continued with its awareness campaign to sensitize citizens and entrepreneurs at district level in the Southern Highlands Zone regions, on various issues regarding standards.

The campaign aimed at creating more awareness on the importance of certified products and registering food and cosmetics premises. It involved people residing in Mpanda district in Katavi region, Ludewa district in Njombe region and Rungwe district in Mbeya region, including students.

TBS Quality Assurance Officer, Mr. Ernest Simon said the campaign was conducted in market areas, bus stands, schools and open areas where many people attended.

He added that the campaign managed to reach more than 8,000 people including 64 SMEs, 4,381 students in primary and secondary schools and 3,658 ordinary citizens.

He urged citizens to create a culture of buying certified products and reading the dates of product manufacture and expiry as one of the consumer protection strategy in order to avoid losses and health risks.

He reminded them that the war against substandard products is not for TBS only but the whole nation. Mr. Simon also insisted on the importance of traders registering their premises on the online platform available on TBS website and citizens to continue reporting in case they encounter substandard products in the market.

During the campaign, TBS officials sensitized SMEs in production of cereals, cooking oil, bread, honey, dairy products and groundnuts on the procedure for getting the TBS standards mark of quality free of charge.

On the other side, the Headmaster of Chief Kidulile Secondary School, Mr. Kapelela congratulated TBS on the campaign noting that it is a good move as the students are coming from different villages and interact with various people, so they are the right target as ambassadors on standards issues. He advised TBS to ensure they reach more schools.

The sensitization campaign is sustainable and would be conducted later to other districts namely Rombo, Lushoto and Hanang.



TBS Quality Assurance Officer Ernest Simon (third left, in red T-shirt) educates buyers on how to read products labels at the Tandale Market in Rungwe, Mbeya, during an awareness campaign in the Southern Highlands Zone.

Manufacturers in SADC urged to produce quality products

By Roida Andusamile

Manufacturers in the Southern African Development Community (SADC) member countries have been urged to produce quality products so as to compete fairly in the region.

Chairperson of the 42 SADC Technical Barriers to Trade (TBT) Corporation Structures Annual General meeting, Dr. Athuman Ngenya made the call recently while addressing the meeting through video conference at Mwalimu Nyerere International Conference Centre in Dar es Salaam.

Dr. Ngenya who is also the Director General for Tanzania Bureau of Standards (TBS) said that apart from discussing issues of standards the meeting also discussed TBT issues which hinders trade development among member countries.

He further said the meeting also discussed about quality policy for African countries which its draft has been finalized.

Speaking earlier during the opening session, the Permanent Secretary, Ministry of Industry and Trade Prof. Riziki Shemdoe said it is high time for SADC member countries to come up with strategies that will help them to produce quality products and do away with barriers to trade.

Prof. Shemdoo said despite the fact that the Ministry is currently implementing the Blue Print which to a large extent removed trade barriers and created conducive environment for investors, SADC member countries also need to remove trade barriers so as to attract more investors in the region.

“We will be appreciated if African countries will move forward and be among the first 100 countries which have no trade barriers and conducive environment for investors,” he elaborated.

The theme of the 42 meeting was “a conducive environment for inclusive and sustainable development, increased intra- regional trade and job creation”

The one-day meeting was attended by 12 member countries which included: Tanzania, Botswana, Namibia, Mozambique, Angola, Lesotho., South Africa, Zambia, Mauritius, Comoro, Eswatini and Zimbabwe.



TBS Director General Dr. Athuman Ngenya Chairs the 42 SADC TBT Corporation Structures Annual General meeting through video conference at Mwalimu Nyerere International Conference centre in Dar es Salaam.

Entrepreneurs urged to maintain products' quality

By Roida Andusamile

Singida Regional Commissioner Dr. Rehema Nchimbi has urged producers of various products in the region to maintain quality and standards requirements so as to protect consumers and boost their businesses.

She was speaking to producers and entrepreneurs during the opening of an awareness training that was organized by the Tanzania Bureau of Standards (TBS) in Singida Municipality. The training brought together food and sunflower cooking oil processors in the area.

The RC said standards are a key factor in promoting businesses in and outside the country and that whoever is engaged in any form of production must abide by standards' requirements.

She said quality and certified products give assurance to reliable market and profit, thus urging producers to strive to acquire the TBS standards mark of quality on their products.

“Tanzania Bureau of Standards (TBS) is here for you. We must use this opportunity

to learn and gain new skills,” she said.

Dr. Nchimbi insisted that substandard food items affect people's health and safety and that is why the government through TBS and other bodies is keen to ensure whatever is produced has to comply with respective standards requirements.

“TBS is not an enemy of producers. Instead, it helps all of us to understand important issues including regulations that govern production in our industries and processing factories,” she said.

On his part, the TBS Training and Research Manager, Mr. Hamisi Sudi said the Bureau will continue to provide education to the public regarding standards and quality assurance activities.

He said TBS recognizes and value the contribution of local producers and that so far it has reached 221 entrepreneurs in Iramba, Manyoni and Singida districts.



Singida Regional Commissioner Dr. Rehema Nchimbi (centre, seated) poses with participants of a workshop for Small and Medium Entrepreneurs (SMEs) and their trainers after opening the workshop held at VETA in Singida. On her left is the TBS Training and Research Manager, Mr. Hamisi Sudi.

TBS urges producers on use of right measurements

By Neema Mtemvu

Local producers have been urged to use right measurements during their production processes in order to get quality products for local and foreign use.

Speaking in Dar es Salaam recently during the commemoration of the World Metrology Day, the Director General of Tanzania Bureau of Standards, Dr. Athuman Ngenya said as the Government strives to build an industrial economy and bring about individual and national prosperity, it is imperative for industrialists to improve the quality of their products by adhering to use of right measurements in their production.

Dr. Ngenya said measurements affect virtually all aspects of life including but not limited to petty trading, hospital and pharmaceutical services, vehicle tyre services and mechanical services, making it imperative for producers to ensure the correctness of measurements for safety, security and value for money.

"TBS, in collaboration with other government institutions mandated to oversee measurements, endeavours to ensure that every local producer uses right measurements so as to produce quality products for domestic and foreign markets," stressed Dr. Ngenya, noting that TBS through its Metrology Laboratory is the custodian of national measurement standards and is mandated to assist industries to achieve quality.

He said the Government intends to improve industries in terms of quality and quantity so as to stimulate the national economy and that at the moment the TBS Metrology Laboratory can provide various services in scientific measurements in areas of Mass, Dimensions, Temperature, Volumes, Time and Frequency, Pressure, Force, Electrical measurements, Torque, Chemical metrology and training in metrology.

World Metrology Day is internationally celebrated on 20th May every year by the International Bureau of Weights and Measures (BIPM), International Organization of Legal Metrology (OIML) and their members, to commemorate the anniversary of the signing of the Metre Convention in 1875.

The theme for World Metrology Day 2020 was "Measurements for global trade". This theme was chosen to create awareness of the important role measurements play in facilitating fair global trade ensuring products meet standards and regulations and satisfying customer quality expectation.

"Food safety is everyone's business"

By Neema Mtemvu

The Director of Quality Management at the Tanzania Bureau of Standards (TBS) Lazaro Msasalaga has called on Tanzanians to ensure that the food they purchase is safe before consuming.

Msasalaga made the call recently when speaking at the climax of the World Food Safety Day, which was marked at TBS headquarters in Ubungo, Dar es Salaam.

Msasalaga urged Tanzanians to take precautionary measures to avoid contacts with unnecessary diseases which are caused by unsafe food.

"It is important for the consumer to check the food and ensure it is in good check, good condition, expired or altered in any way", he said,

He added that consumers have the right to get information on food through description written on the label. He insisted producers to put accurate information sticking on standards, principles and regulations.

According to the World Health Organisation (WHO) more than 420,000 people died in 2015 due to diseases resulting from unsafe food. In Africa alone it was estimated that 137,000 people died due to such disease where as children and pregnant women are at more risk.

He said the government through TBS has an obligation to control food safety. The government has put enabling environment to implement this assignment including establishment of policy, acts, principles and regulations improving food markets to ensure that the issue of food safety is strictly followed in the whole chain.

According to the Director, the bureau has been educating the public on the importance of food safety, conduct assessment of food hazards, control and inspections.

The second World Food Safety Day (WFSD) was celebrated on 7 June 2020 with the intention of drawing attention and inspire action to help prevent, detect and manage food borne risks, contributing to food security, human health, economic prosperity, agriculture, market access, tourism and sustainable development.

Following the success of the first celebration in 2019, this year WFSD reinforces the call to strengthen commitment to scale up food safety made by the Addis Ababa Conference and the Geneva forum in 2019 under the

umbrella of the future of food safety. WHO in collaboration with the Food and Agriculture Organisation of the United Nations (FAO) is pleased to facilitate member state efforts to celebrate the World Food Safety Day.

Under the theme “Food safety everyone’s business” the action oriented campaign will promote global food safety awareness and call upon countries, decisions makers, the private sector, civil society ,UN organisation and the general public to take actions.

Food safety is a shared responsibility between governments, producers and consumers. Everybody has a role to play from farms to tables to ensure the food we consume is safe and will not cause damages to our health.

NFQCL to test TBS food samples in Lake Zone

By Roida Andusamile

Tanzania Bureau of Standards (TBS) will soon start using National Fish Quality Control Laboratory- NFQCL for testing food sample from industries and markets in the Lake Zone.

TBS Director General Dr. Athuman Ngenya revealed that recently during the Visit of the Permanent Secretary, Ministry of Industry and Trade Prof. Riziki Shemdoo and his Deputy Ludovick Nduhiye at TBS Lake Zone Office in Mwanza region.

Dr Ngenya said currently TBS and NFQCL are in the final stage of preparations of the Memorandum of Understanding (MOU) of which after the signing, samples will be tested.

Dr. Ngenya said the move will help solve the current challenges of test samples delay and decision regarding quality of products especially for perishable products.

On his part Prof. Shemdoo commended TBS for the good job which is performed by TBS workers in the Lake zone and urged them to avoid temptations and observe working rules and regulations.

“You should always observe ethics and rules for a continuous efficiency of the organization,” he insisted.

Prof. Shemdoo visit was part of his familiarization tour at TBS zonal office in Mwanza and border offices in the Lake Zone which included Sirari, Mutukula and Rusumo.



Permanent Secretary Ministry of Industry and Trade, Prof. Riziki Shemdoo (second right) during his familiarization tour at TBS zonal office in Mwanza recently. Looking on from second left are Deputy Permanent Secretary Ministry of Industry and Trade Ludovick Nduhiye and TBS Director General Dr. Athuman Ngenya (first right)

Government to control 53 informal borders in Western Zone

By Roida Andusamile

The Ministry of Industry and Trade in collaboration with other Ministries will control 53 informal borders in Kigoma, Katavi and Rukwa regions in order to meet the challenge of illegal importation of products.

The statement was made recently in Kigoma by Prof. Riziki Shemdoo during the launching of the Tanzania Bureau of Standards (TBS) office in the Western Region, that will serve Kigoma, Katavi and Rukwa regions and that TBS should currently collaborate with other Government institutions in addressing this issue while the Ministry continues its process of providing a permanent solution.

Prof. Shemdoo made the announcement following a statement made by TBS Director General Dr. Athuman Ngenya who, among other things, pointed out the existence of informal borders that hamper the bureau’s efforts to regulate imports.

In that statement, Dr Ngenya explained that out of the 53 borders, Rukwa region leads with 35 informal borders followed by Kigoma 14 and Katavi (4).

“The issue of borders is cross-cutting so I will consult with other ministries to find solutions to this issue as the presence of informal borders is also causing the country to lose revenue,” emphasized Prof. Shemdoo.

Prof. Shemdoo also thanked government authorities in Kigoma Region for the support they provide to government institutions in the region and has called on all other institutions under the ministry to also collaborate with the authorities in the region for efficiency.

“It is my belief that the opening of the TBS office in Kigoma will be a catalyst for development in the Western Zone,” explained Prof. Shemdoo.

Prof. Shemdoo commended TBS for opening the office in Kigoma hence making the number of offices under the Ministry of Industry and Trade in Kigoma to be three which are Small Industries Development Organization (SIDO) and the Weights and Measures Agency (WMA).

The launch of the Western Region office makes TBS to have six (6) zonal offices which includes; Lake Zone (Mwanza, Kagera, Shinyanga, Geita, Mara and Simiyu), Northern Zone (Arusha, Kilimanjaro, Manyara and Tanga), Central Zone (Dodoma, Singida and Tabora), Southern Zone (Mtwara, Lindi and Ruvuma) and Southern Highlands Zone (Mbeya, Iringa, Songwe and Njombe). Head office in Dar es Salaam also operates in the Eastern regions of Dar es Salaam, the Coast and Morogoro.



Permanent Secretary Ministry of Industry and Trade, Prof. Riziki Shemdoo (third left) launches Kigoma TBS Zonal office recently. Looking on from left are Deputy Permanent Secretary Ministry of Industry and Trade Ludovick Nduhiye, TBS Director General Dr. Athuman Ngenya and Kigoma Regional Administrative Secretary Rashid Mchata.

Stakeholders sensitized on standardization

By Neema Mtemvu

Members of consultative meetings between the government, traders and investors have been educated on how to acquire the standards mark for free and ways to overcome challenges regarding quality assurance

issues.

Speaking in a meeting held in Mwanza, the Director General of Tanzania Bureau of Standards (TBS) Dr Athuman Ngenya informed the stakeholders on opportunities they get particularly those whose products meet standards requirements.

He particularly mentioned the opportunities provided by the organization to the Small and Medium Enterprises (SMEs) including free certification of their goods for three years, so as to enable them expand market and overcome trading obstacles.

The consultative meeting for the Lake Zone regions of Mara, Simiyu, Shinyanga and Mwanza started on February 24, 2020. More than eight ministers and deputy ministers attended the meeting which aimed at getting solutions for challenges facing investors.

Dr. Ngenya said the government established such programme in order to help entrepreneurs produce high quality products so as to access markets. He urged entrepreneurs and citizens to use the opportunity especially during this time when the government is pushing the industrialization agenda.

“TBS as a facilitating institution provides certification services to SMEs for free aimed at developing local factories,” Dr. Ngenya said. He said SMEs’ certified products would easily overcome trade barriers and access regional and international markets. He elaborated that the objective of TBS is to assist traders to do their activities without interfering with rules and laws of the country.



TBS Director General, Dr. Athuman Ngenya addresses stakeholders in a consultative meeting held in Musoma. Among the participants are the Minister for Investment, Hon. Angellah Kairuki (second left, seated) and the Deputy Minister for Industry and Trade, Eng. Stella Manyanya (left).

FINALIZED STANDARDS

During the period of January – June 2020, the following Draft Standards were finalized:

S/N	Finalized TZS No.	Title
Chemicals standards		
1	FTZS 69: 2020	Scholastic exercise books — specification
2	FTZS 818:2020	Liquefied petroleum gases (LPG) — specification
3	FTZS 2523: 2020	Paper used for printing maps and architectural drawings — specification
4	FTZS 2524: 2020	Diary books — specification
5	FTZS 2525: 2020	Thermal paper rolls — specification
6	FTZS 2675:2020/ ISO 15198:2004	Clinical Laboratory Medicine-In-Vitro Diagnostic Medical Devices-Validation of user Quality Control Procedures by the manufacturer
7	FTZS 2676:2020/ ISO 22870:2016	Point-of-care testing (POCT) -- Requirements for quality and competence.
8	FTZS 2677:2020/ ISO 15190:2003	Medical laboratories -- Requirements for safety
9	FTZS 2655:2020	Corrugating Medium/Fluting for Corrugated Board-specification
10	FTZS 2656:2020	Kraft Paper -Specification
11	FTZS 2657:2020	Test Liner Board - Specification
12	FTZS 2658:2020	Carbon dioxide for Beverage and Food Industry - Specification
13	FTZS 798:2020	Lubricating Grease - Specification
14	FTZS 2650:2020 /ISO 8068:2006	Lubricants, industrial oils and related products (class L)- Family T (Turbines) - Specification for lubricating oils for turbines.
15	FTZS 2651:2020 /ISO 13738:2011	Lubricants, industrial oils and related products (class L) — Family E (Internal combustion engine oils) — Specifications for two-stroke-cycle gasoline engine oils (categories EGB, EGC and EGD).
16	FTZS 2652-6:2020/ ISO 6743-6:2018	Lubricants, industrial oils and related products (class L) — Classification —Part 6: Family C (gear systems).
17	FTZS 2653-1:2020/ ISO 12925-1:2018	Lubricants, industrial oils and related products (class L) — Family C (gears) — Part 1: Specifications for lubricants for enclosed gear systems.
18	FTZS 2654-99:2020/ ISO 6743-99:2002	Lubricants, industrial oils and related products (class L) — Classification —Part 99
19	FTZS 672:2020/EAS 158:2019	Automotive gasoline (premium motor spirit) -Specification
20	FTZS 674:2020/EAS 177:2019	Automotive gas oil (automotive diesel) – Specification
21	FTZS 2756:2020	Mosquito repellent soap – specification
22	FTZS 883:2020	Neem herbal soap – Specification (Revision of TZS 883: 2008
23	FTZS 2757:2020	Polyvinyl Acetate-Based adhesives for wood –Specification
24	FTZS 2758:2020	Methods of test for adhesives
25	FTZS 2759:2020	Shellac Varnish – Specification

26	FTZS 506:2020	Light kaolin – Specification (Revision of TZS 506: 1996)
27	FTZS 507:2020	Sodium bicarbonate – Specification (Revision of TZS 507:1999)
28	FTZS 74:2020	Sulfuric acid – Specification (Revision of TZS 74: 1980)
29	FTZS 1362:2020	Cashew nut shell liquid (CNSL) – Specification (Revision of TZS 1362: 2010)
30	FTZS 505:2020	Specification for hydrochloric acid (Revision of TZS 505: 1995)
31	FTZS 134:2020	Industrial common salt (Revision of TZS 134: 1981)
32	FTZS 2793:2020	Hospital based intravenous fluids-Good Manufacturing Practice (GMP)-Requirements for regulatory purposes
33	FTZS 2794:2020	Methylated spirit 70% for medical use-Specification
34	FTZS 2795:2020	Sterilized dextrose intravenous infusion
35	FTZS 2796:2020	Sterilized compound sodium lactate intravenous infusion (Ringers-Lactate solution injection)
36	FTZS 2797:2020	Sterilized sodium chloride intravenous infusion
37	FTZS 2798:2020	Sterilized sodium chloride and dextrose intravenous infusion
38	FTZS 2654:2020	Kraft Liner Board — Specification
39	FTZS 2800:2020	Post card – Specification
40	FTZS 2801:2020/ ISO 2965:2019	Materials Used as Cigarette Papers, Filter Plug Wrap and Filter Joining Paper, Including Materials Having a Discrete or Oriented Permeable Zone and Materials with Bands of Differing Permeability - Determination of Air Permeability
41	FTZS 2802:2020	Glassine Paper — Specification
42	FTZS 2803	Jumbo tissue roll (plus size toilet paper) -Specification

Mining and minerals standards

1	FTZS 2523:2020	Coal - handling, storage and transportation – Code of practice
2	FTZS 2524:2020/ISO 5073:2013	Brown coals and lignites -- Determination of humic acids.
3	FTZS 2527:2020/ ISO 10752:2020	Coal sizing equipment - Performance evaluation.
4	FTZS 2525:2020/ ISO 15117-1:2004	Coal flow properties -- Part 1: Bin flow.
5	FTZS 2526:2020/ ISO 15239:2005	Solid mineral fuels -- Evaluation of the measurement performance of on-line analysers
6	FTZS 2609:2020 / ISO 9599:2015	Copper, lead, zinc and nickel sulphide concentrates — Determination of hygroscopic moisture content of the analysis sample — Gravimetric method
7	FTZS 2528:2020/ ISO 15249:1998	Zinc sulfide concentrates — Determination of gold content — Acid dissolution/ solvent extraction/flame atomic absorption spectrometric method
8	FTZS 2612-1:2020/ ISO 18758-1:2018	Mining and earth-moving machinery — Rock drill rigs and rock reinforcement rigs —Part 1: Vocabulary
9	FTZS 2612-2:2020/ ISO 18758-2:2018	Mining and earth-moving machinery - Rock drill rigs and rock reinforcement rigs - Part 2: Safety requirements.

10	FTZS 2613:2020/ ISO 19296:2018	Mining -- Mobile machines working underground -- Machine safety.
11	FTZS 2614:2020/ ISO 19224:2017	Continuous surface miners (CSM) --Safety requirements.
12	FTZS 2610:2020/ISO 10258:2018	Copper sulfide concentrates — Determination of copper content — Titrimetric methods.
13	FTZS 2611:2020 /ISO 12740:1998	Lead sulfide concentrates — Determination of silver and gold contents — Fire assay and flame atomic absorption spectrometric method using scarification or cupellation.
14	FTZS 2615:2020/ ISO 19225:2017	Underground mining machines – Mobile extracting machines at the face -- Safety requirements for shearer loaders and plough system.
15	FTZS 2616:2020/ ISO 9202:2020	Jewellery — Fineness of precious metal alloys.
16	FTZS 2617:2020/ ISO 11596:2008	Jewellery — Sampling of precious metal alloys for and in jewellery and associated products
17	FTZS 2618:2020/ ISO 18323:2015	Jewellery — Consumer confidence in the diamond industry.
18	FTZS 2714 - 1:2020	Mineral Processing Terminology - Part 1 - Comminution
19	FTZS 2714 - 2:2020	Mineral Processing Terminology - Part 2 - Concentrations
20	FTZS 2710:2020	Guidelines for the systematic evaluation of coal resources and coal reserves
21	FTZS 2711:2020/ISO 723:1991	Rock drilling equipment - Forged collared shanks and corresponding chuck bushings for hollow hexagonal drill steels
22	FTZS 2712:2020/ISO 722:1991	Rock drilling equipment - Hollow drill steels in bar form hexagonal and round
23	FTZS 2713:2020	Geological exploration for water reservoir sites- code of practice.
24	FTZS 2716:2020/ISO 10469:2006	Copper sulfide concentrates - Determination of copper - Electrogravimetric method
25	FTZS 2717:2020/ISO 13543:2016	Copper, lead, zinc and nickel sulfide concentrates — Determination of mass of contained metal in a lot
26	FTZS 2718:2020/ISO 10251:2006	Copper, lead, zinc and nickel concentrates — Determination of mass loss of bulk material on drying
27	FTZS 2719:2020/ISO 12739:2006	Zinc sulfide concentrates —Determination of zinc —Ion exchange/EDTA titrimetric method
28	FTZS 2760 - 1:2020	Ventilation in underground mines - Part 1: Air quality Requirements.
29	FTZS 2760 - 2:2020	Ventilation in underground mines - Part 2: General guidelines.
30	FTZS 2762:2020/ISO 12744:2006	Copper, lead, zinc and nickel concentrates — Experimental methods for checking the precision of sampling.
31	FTZS 2761:2020/ISO 12745:2008	Copper, lead, zinc and nickel concentrates - precision and bias of mass measurement techniques.
32	FTZS 2763:2020/ISO 13292:2006	Copper, lead, zinc and nickel concentrates - Experimental methods for checking the bias of sampling.
33	FTZS 2764:2020/ISO 10753:2019	Coal preparation plant -- Assessment of the liability to breakdown in water of materials associated with coal seams.
34	FTZS 2765:2020/ISO 23499:2013	Coal -- Determination of bulk density for the use in charging of coke ovens.
35	FTZS 2766:2020/ISO 622:2016	Solid mineral fuels Determination of phosphorus content – Reduced molybdophosphate Photometric methods.
36	FTZS 2804:2020/ISO 13291:2006	Zinc sulfide concentrates —Determination of zinc —Solvent extraction and EDTA titrimetric method.

Electrotechnical standards		
1	FTZS 1221-1:2020/IEC 61439-1:2011	Low-voltage switchgear and control gear assemblies-Part 1: General rules
2	FTZS 1221-2:2020/IEC 61439-2:2011	Low-voltage switch gear and control gear assemblies-Part 2: Power switchgear and control gear assemblies
3	FTZS 1221-3:2020/IEC 61439-3:2012	Low-voltage switchgear and control gear assemblies-Part 3: Distribution boards intended to be operated by ordinary persons(DBO)
4	FTZS 374-2:2020	Dimensions and output series for rotating electric machines-Part 1: Frame numbers 56 to 400 and flange numbers 55 to 1080.
5	FTZS 374-1:2020	Rotating electrical machines-Part 1-Rating and performance
6	FTZS 448-2-3:2020	Household and similar electrical appliances - Safety - Part 2-3: Particular requirements for electric irons (TZS 448-2-8:2013 (Rev))
7	FTZS 448-2-29:2020	Household and similar electrical appliances - Safety - Part 2-29: Particular requirements for battery chargers. (TZS 448-2-6:2002 (Rev))
8	FTZS 448-2-14:2020	Household and similar electrical appliances - Safety - Part 2-14: Particular requirements for kitchen machines.
9	FTZS 771-:2020	Switches for household and similar fixed electrical Installations-Part 1: General requirements
10	FTZS 771-2-1:2020	Switches for household and similar fixed electrical Installations-Part 2-1: Particular Requirements-Electronic switches
11	FTZS 771-2-2:2020	Switches for household and similar fixed Installations-Part 2- 2: Electromagnetic remote control switches (RCS)
12	FTZS 771-2-3:2020	Switches for household and similar fixed Installations-Part 2-3: Particular Requirements-Time delay switches
13	FTZS 144-1:2020	Lead acid starter Batteries-Part-1: General requirements and methods of test (Rev TZS 144-1:2017).
14	FTZS 2609-1:2020/IEC 62133-1:2017	Secondary cells and batteries containing alkaline or other nonacid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications - Part 1: Nickel systems.
15	FTZS 2609-2:2020/IEC 62133-2:2017	Secondary cells and batteries containing alkaline or other nonacid electrolytes - Safety requirements for portable sealed secondary lithium cells, and for batteries made from them, for use in portable applications - Part 2: Lithium systems.
16	FTZS 877-1-1:2020/ IEC 61215-1-1:2016	Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules.
17	FTZS 877-1-2:2020/ IEC 61215-1-2:2016	Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-2: Special requirements for testing of thin-film Cadmium Telluride (CdTe) based photovoltaic (PV) modules
18	FTZS 877-1-3:2020/ IEC 61215-1-3:2016	Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-3: Special requirements for testing of thin-film amorphous silicon based photovoltaic (PV).
19	FTZS 877-1-4:2020/IEC 61215-1-4:2016	Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-4: Special requirements for testing of thin-film Cu (In,Ga) (S,Se) ₂ based photovoltaic (PV) modules.
20	FTZS 1472:2020/IEC 61184:2017	Bayonet lampholders
21	FTZS 1473:2020/IEC 60238:2016	Edison screw lampholders
22	FTZS 2406 – 2 :2020/ IEC 61724 – 2 :2016	Photovoltaic system performance – Part 2: Capacity Evaluation method

23	FTZS 2723 – 1 :2020/ IEC 61156 – 1 :2012	Multicore and symmetrical pair/quad cables for digital Communications – Part 1: Generic specification
24	FTZS 2723 – 5:2020/ IEC 61156 – 5:2012	Multicore and symmetrical pair/quad cables for digital communications – Part 5: Symmetrical pair/quad cables with transmission characteristics up to 1000MHz-horizontal floor wiring section specification
25	FTZS 2724 – 1 – 1 :2020/ IEC 62680 – 1 – 1 :2015	Information technology - Generic cabling for customer – Part 1 – 1: Common components – USB Battery Charging specification, Revision 1.2
26	FTZS 2724 – 2 :2020/ ISO/IEC 11801 – 2 :2017	Information technology – Generic cabling for customer premises – Part 2: Office premises
27	FTZS 2724 – 3:2020/ ISO/IEC 11801 – 3:2017	Information technology – Generic cabling for customer premises – Part 3: Industrial premises.
28	FTZS 2724 – 5 :2020/ ISO/IEC 11801 – 5 :2017	Information technology – Generic cabling for customer premises – Part 5: Data centre
29	FTZS 2725 – 1 – 1 :2020/ IEC 60794 – 1 – 1 :2015	Optical fibre cables-Part 1-1: Generic specification –General
30	FTZS 2725 – 1 – 2 :2020/ IEC 60794 – 1 – 2 :2017	Optical fibre cables - Part 1-2: Generic specification Basic optical cable test procedures-General guidance
31	FTZS 2725 – 1 – 23 :2020/IEC 60794 – 1 – 23 :2019	Optical fibre cables – Part 1 – 23: Generic specification – Basic optical cable test procedures-Cable element test methods
32	FTZS 2725 – 1 – 24 :2020/IEC 60794 – 1 – 24 :2014	Optical fibre cables – Part 1 – 24: Generic specification – Basic optical cable test procedures-Electrical test method
33	FTZS 2725 – 3 – 12 :2020/IEC 60794 – 3 – 12 :2012	Optical fibre cables – Part 3 – 12: Outdoor cables detailed specification for duct and directly buries optical telecommunication cables for use in premises cabling
34	FTZS 2726:2020/ IEC 62738:2018	Ground-mounted photovoltaic power plants – Design guidelines and recommendations
35	FTZS 2727:2020/ IEC 62727:2012	Photovoltaic systems – Specification for solar trackers
36	FTZS 2728:2020/ IEC 62548:2016	Photovoltaic (PV) arrays – Design requirements
37	FTZS 2729:2020/ IEC 62852:2014	Connectors for DC – application in photovoltaic systems – Safety requirements and tests
38	FTZS 311:2020	Codes of Practices for Electrical Installations
39	FTZS 448-2-21:2020/ IEC 60335-2-21:2018	Household and similar electrical appliances - Safety - Part 2-21: Particular requirements for storage water heaters
40	FTZS 448-2-23:2020/ IEC 60335-2-23:2016+AMD1:2019	Household and similar electrical appliances - Safety - Part 2-23: Particular requirements for appliances for skin or hair care
41	FTZS 448-2-25:2020/ IEC 60335-2-25:2010+A1:2014+A2:2015	Household and similar electrical appliances - Safety - Part 2-25: Particular requirements for microwave ovens, including combination microwave ovens
42	FTZS 448-2-41:2020/ IEC 60335-2-41:2012	Household and similar electrical appliances – Safety - Part 2-41: Particular requirements for pumps
43	FTZS 1222:2020/IEC 60968:2015	Self-ballasted fluorescent lamps for general lighting services – Safety requirements
44	FTZS 1223-2:2020/ IEC 60947-2:2016+AMD1:2019	Low-voltage switchgear and controlgear - Part 2: Circuit-breakers
45	FTZS 1223-3:2020/ IEC 60947-3:2008+AM-D1:2012+AMD2:2015	Low-voltage switchgear and controlgear - Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units
46	FTZS 1599-3:2020/ IEC 61960-3:2017	Secondary cells and batteries containing alkaline or other non-acid electrolytes – Secondary lithium cells and batteries for portable applications – Part 3: Prismatic and cylindrical lithium secondary cells, and batteries made from them

47	FTZS 2730:2020/ IEC 62894:2014	Photovoltaic inverters – Data sheet and name plate
48	FTZS 2731:2020/ IEC 62910:2015	Utility-interconnected photovoltaic inverters - Test procedure for low voltage ride-through measurements
49	FTZS 2739:2020/IEC 61195:2014	Double capped fluorescent lamps -Safety specifications
50	FTZS 2740-1:2020/IEC 61936-1:2014	Power installations exceeding 1kv a.c-Part 1: Common rules
51	FTZS 2743-1:2020 /IEC 62040-1:2017	Uninterruptable Power Systems (UPS)-Part 1: Safety requirements
52	FTZS 2743-2:2020 / IEC 62040-2:2016	Uninterruptable Power Systems (UPS)-Part 2: Electromagnetic compatibility (EMC) requirements
53	FTZS 2743-2:2020 / IEC 62040-2:2016	Uninterruptable Power Systems (UPS)-Part 2: Electromagnetic compatibility (EMC) requirements
54	FTZS 2743-3:2020/ IEC 62040-3:2011	Uninterruptable Power Systems (UPS)-Part 3: Method of specifying the performance and test requirements.
55	FTZS 2743-4:2020/IEC 62040-4:2013.	Uninterruptable power systems (UPS) – Part 4: Environmental aspects – Requirements and reporting
56	FTZS 2743-5-3:2020/ IEC 62040-5-3:2016	Uninterruptable Power Systems (UPS)-Part 5-3: DC output UPS-Performance and test requirements.
57	FTZS 2755:2020	Colour Codes for Electrical Installations
58	FTZS 2805-1:2020/ IEC 60383-1:1993	Insulators for overhead lines with a nominal voltage above 1000 V - Part 1: Ceramic or glass insulator units for a.c. systems - Definitions, test methods and acceptance criteria
59	FTZS 2806-1:2020/ IEC 60282-1:2009+AMD1:2014	High-voltage fuses - Part 1: Current-limiting fuses.
60	FTZS 2807:2020/ IEC 61109:2008	Insulators for overhead lines - Composite suspension and tension insulators for a.c. systems with a nominal voltage greater than 1 000 V - Definitions, test methods and acceptance criteria

Mechanical Engineering standards

1	FTZS 2627:2020/ ISO 15296:2017	Gas welding equipment - Vocabulary.
2	FTZS 2628:2020/ ISO/ TR 581: 2005	Weldability - Metallic materials - General principles.
3	FTZS 2629-3:2020 / ISO/TR 25901-3: 2016	Welding and allied processes - Vocabulary - Part 3: Welding processes.
4	FTZS 2629-2:2020 / ISO 857-2:2017	Welding and allied processes - Vocabulary - Part 2: Soldering and brazing processes and related terms.
5	FTZS 2630-1:2020/ ISO 9606-1:2016	Qualification testing of welders - Fusion welding - Part 1: Steels.
6	FTZS 2632-1:2020/ ISO 5682-1:2017	Equipment for crop protection — Spraying equipment — Part 1: Test methods for sprayer nozzles
7	FTZS 2632-2:2020/ ISO 5682-2:2017	Equipment for crop protection — Spraying equipment — Part 2: Test methods to assess the horizontal transverse distribution for hydraulic sprayers

8	FTZS 2633-1:2020/ ISO 7256-1:1984	Sowing equipment - Test methods - Part 1: Single seed drills (precision drills)
9	FTZS 2634:2020/ ISO 22867:2011	Forestry and gardening machinery — Vibration test code for portable handheld machines with internal combustion engine — Vibration at the handles
10	FTZS 2631-1:2020/ ISO 17225-1:2014	Solid biofuels - Fuel specifications and classes - Part 1: General requirements
11	FTZS 2631-4:2020/ ISO 17225-4:2014	Solid biofuels - Fuel specifications and classes - Part 4: Graded wood chips
12	FTZS 2631-5:2020/ ISO 17225-5:2014	Solid biofuels - Fuel specifications and classes - Part 5: Graded firewood
13	FTZS 2631-6:2020/ ISO 17225-6:2014	Solid biofuels - Fuel specifications and classes - Part 6: Graded non-woody pellets
14	FTZS 2631-7:2020/ ISO 17225-7:2014	Solid biofuels - Fuel specifications and classes - Part 7: Graded non-woody briquettes
15	FTZS 2631-8:2020/ ISO/ TS 17225-8:2016	Solid biofuels - Fuel specifications and classes - Part 8: Graded thermally treated and densified biomass fuels
16	FTZS 2636: 2020/ ISO 16003: 2017	Components for fire-extinguishing systems using gas — Requirements and test methods — Container valve assemblies and their actuators; selector valves and their actuators; nozzles; flexible and rigid connectors; and check valves and non-return valve
17	FTZS 2637: 2020/ ISO 3008-1: 2019	Fire resistance tests — Door and shutter assemblies — Part 1: General requirements
18	FTZS 1305: 2020/ ISO 7010: 2019	Graphical symbols — Safety colors and safety signs — Registered safety signs
19	FTZ 2346-8: 2020/ ISO 14520-8:2019	Gaseous fire-extinguishing systems - Physical properties and system design - Part 8: HFC 125 extinguishant
20	FTZ 2346-5: 2020/ ISO 14520-5:2019	Gaseous fire-extinguishing systems -Physical properties and system design -- Part 5: FK-5-1-12 extinguishant
21	FTZS 2638: 2020/ ISO 8044: 2015	Corrosion of metals and alloys — Basic terms and definitions
22	FTZS 2639: 2020/ ISO 8565: 2011	Metals and alloys — Atmospheric corrosion testing — General requirements
23	FTZS 2666: 2020/ ISO 3873: 1977	Industrial safety helmets

24	FTZS 2575: 2020/ ISO 3779: 2009	Road vehicles — Vehicle identification number (VIN) — Content and structure
25	FTZS 2577: 2020/ ISO 3780: 2009	Road vehicles — World manufacturer
26	FTZS 2670: 2020/ ISO 5774: 2016	Plastics hoses — Textile-reinforced types for compressed-air applications – Specification.
27	FTZS 2671: 2020/ ISO 8029: 2014	Plastics hose - General-purpose collapsible water hose, textile-reinforced – Specification.
28	FTZS 2672:2020/ ISO 16440:2016	Petroleum and natural gas industries -- Pipeline transportation systems - Design, construction and maintenance of steel cased pipelines.
29	FTZS 2673:2020/ ISO 16708:2006	Petroleum and natural gas industries -- Pipeline transportation systems - Reliability-based limit state methods.
30	FTZS 2674–1: 2020/ ISO 4427–1: 2019	Plastics piping systems - Polyethylene (PE) pipes and fittings for water supply - Part 1 – General
31	FTZS 2674-2:2020/ ISO 4427 – 2: 2019	Plastics piping systems - Polyethylene (PE) pipes and fittings for water supply - Part 2 – Pipes
32	FTZS 2674–3:2020/ ISO 4427–3: 2019	Plastics piping systems - Polyethylene (PE) pipes and fittings for water supply - Part 3 – Fittings
33	FTZS 2674-5:2020/ ISO 4427 – 5: 2019	Plastics piping systems - Polyethylene (PE) pipes and fittings for water supply - Part 5 – Fitness for purpose of the system
34	FTZS 841-2: 2020/ ISO 8442-2: 1997	Materials and articles in contact with foodstuffs – Cutlery and table hollowware – Part 2 – Requirements for stainless steel and silver-plated cutlery.
35	FTZS 841-7: 2020/ ISO 8442-7: 2000	Materials and articles in contact with foodstuffs – Cutlery and table hollowware – Part 7 – Requirement for table cutlery made of silver, other precious metals and their alloys.
36	FTZS 2809: 2020/ ISO 4978:2018	Steel sheet and strip for welded gas cylinders.
37	FTZS 2810: 2020/ ISO 16701:2015	Corrosion of metals and alloys — Corrosion in artificial atmosphere — Accelerated corrosion test involving exposure under controlled conditions of humidity cycling and intermittent spraying of a salt solution.
38	FTZS 2811: 2020/ ISO 4995: 2014	Hot-rolled steel sheet of structural quality.
39	FTZS 2812: 2020/ ISO 13976: 2016	Hot-rolled steel sheet in coils of structural quality and heavy thickness.
40	FTZS 2813: 2020/ ISO 4996: 2014	Hot-rolled steel sheet of high yield stress structural quality.

41	FTZS 142-4: 2020/ ISO 6935-2: 2019	Steel for the reinforcement of concrete — Part 4: Ribbed bars — Low grade steel (300 - 450 MPa).
42	FTZS 1312: 2020 (Rev. TZS 1312: 2010)	Specifications for wood charcoal and charcoal briquette as fuels for household use
43	FTZS 1636: 2020/ ISO 18752: 2014	Rubber hoses and hose assemblies — Wire or textile-reinforced single-pressure types for hydraulic applications — Specification
44	FTZS 1639: 2020/ ISO 3862: 2020	Rubber hoses and hose assemblies – Rubber - covered spiral – wire - reinforced hydraulic types for oil- based or water-based fluids- Specification
45	FTZS 1638: 2020/ ISO 1436: 2017	Rubber hoses and hose assemblies - Wire-braid - reinforced hydraulic types for oil - based or water - based fluids - Specification
46	FTZS 2808-1: 2020/ ISO 3545-1: 1989	Steel tubes and fittings - Symbols for use in specifications - Part 1: Tubes and tubular accessories with circular cross-section
47	FTZS 2808-2: 2020/ ISO 3545-2: 1989	Steel tubes and fittings - Symbols for use in specifications - Part 2: Square and rectangular hollow sections
48	FTZS 2808-3: 2020/ ISO 3545-3: 1989	Steel tubes and fittings - Symbols for use in specifications - Part 3: Tubular fittings with circular cross-section
49	FTZS 2823-1:2020/ ISO 4210-1:2014	Cycles — Safety requirements for bicycles — Part 1: Terms and definitions.
50	FTZS 2823-2:2020/ ISO 4210-2:2014	Cycles — Safety requirements for bicycles — Part 2: Requirements for city and trekking, young adult, mountain and racing bicycles.
51	FTZS 2823-3:2020/ ISO 4210-3:2014	Cycles — Safety requirements for bicycles — Part 3: Common test methods.
52	FTZS 2823-4:2020/ ISO 4210-4:2014	Cycles — Safety requirements for bicycles — Part 4: Braking test methods.
53	FTZS 2823-5:2020/ ISO 4210-5:2014	Cycles — Safety requirements for bicycles — Part 5: Braking test methods.

Agriculture and food standards

1	FTZS 2641:2020 / ISO 5495:2005.	Sensory Analysis — Methodology—Paired comparison test.
2	FTZS 2642:2020 / ISO 8587:2006	Sensory Analysis — Methodology— Ranking
3	FTZS 2643:2020/ ISO 10399:2017	Sensory Analysis - Methodology – Duo-Trio Test
4	FTZS 2644:2020/ ISO 16820:2004	Sensory Analysis — Methodology — Sequential Analysis
5	FTZS 2645:2020/ ISO 29842:2011	Sensory Analysis — Methodology — Balanced Incomplete Block Designs
6	FTZS 2612-1:2020	Foodstuffs – Determination of Vitamin A by High Performance Liquid Chromatography Part 1: Measurement of All-E-Retinol and 13-Z-Retinol
7	FTZS 2612-2:2020	Foodstuffs – Determination of Vitamin A By High Performance Liquid Chromatography Part 2: Measurement Of -Carotene

8	FTZS 2613:2020	Foodstuffs – Determination of Vitamin D by High Performance Liquid Chromatography – Measurement of Cholecalciferol (D3) Or Ergocalciferol (D2)
9	FTZS 2614:2020	Foodstuffs – Determination of Vitamin E by High Performance Liquid Chromatography – Measurement of α -, β -, γ -, And δ -Tocopherol
10	FTZS 2615:2020	Foodstuffs – Determination of Ochratoxin A — High Performance Liquid Chromatographic Method with Immunoaffinity Column Cleanup and Fluorescence Detection
11	FTZS 2616:2020	Foodstuffs – Determination of Mercury by Flameless Atomic Absorption Spectrophotometric Method
12	FTZS 2617-1:2020 /ISO 16634-1:2008	Food Products — Determination of The Total Nitrogen Content by Combustion According to The Dumas Principle and Calculation of the Crude Protein Content — Part 1: Oilseeds and Animal Feeding Stuffs
13	FTZS 799:2020 /ISO 16050:2003	Foodstuffs — Determination of Aflatoxin B1, And the Total Content of Aflatoxins B1, B2, G1 and G2 in Cereals, Nuts and Derived Products — High-Performance Liquid Chromatographic Method
14	FTZS 2618:2020	Desiccated Coconut – Specification
15	FTZS 2619:2020	Code of Hygienic Practice for Desiccated Coconut
16	FTZS 2621:2020 / ISO 6886:2016	Animal and Vegetable Fats and Oils - Determination of Oxidative Stability (Accelerated Oxidation Test)
17	FTZS 2620:2020 /ISO 6884:2008	Animal and Vegetable Fats and Oils - Determination of Ash
18	FTZS 1371-1:2020 /ISO 12228-1:2014	Determination of Individual and Total Sterols Contents — Gas Chromatographic Method — Part 1: Animal and Vegetable Fats and Oils
19	1371-2:2020 /ISO 12228-2:2014	Determination of Individual and Total Sterols Contents — Gas Chromatographic Method — Part 2: Olive Oils and Olive Pomace Oils
20	FTZS 288-1:2020 / ISO 12966-1:2014	Animal and Vegetable Fats and Oils —Gas Chromatography of Fatty Acid Methyl Esters — Part 1: Guidelines On Modern Gas Chromatography of Fatty Acid Methyl Esters
21	FTZS 288-2:2020/ISO 12966-2:2017	Animal and Vegetable Fats and Oils —Gas Chromatography of Fatty Acid Methyl Esters — Part 2: Preparation of Methyl Esters of Fatty Acids
22	FTZS 288-3:2020/ISO 12966-3:2016	Animal and Vegetable Fats And Oils —Gas Chromatography of Fatty Acid Methyl Esters — Part 3: Preparation Of Methyl Esters Using Trimethylsulfonium Hydroxide (TMSH)
23	FTZS 288-4:2020/ISO 12966-4:2015	Animal and Vegetable Fats and Oils —Gas Chromatography of Fatty Acid Methyl Esters — Part 4: Determination By Capillary Gas Chromatography
24	FTZS 2622-1:2020/ISO 15788-1:1999	Animal and Vegetable Fats and Oils — Determination of Stigmastadienes in Vegetable Oils — Part 1: Method Using Capillary-Column Gas Chromatography (Reference Method)

25	FTZS 2622-2:2020/ISO 15788-2:2003	Animal and Vegetable Fats and Oils — Determination of Stigmastadienes in Vegetable Oils — Part 2: Method Using High-Performance Liquid Chromatography (HPLC)
26	FTZS 2623:2020/ISO 17189:2003	Butter, Edible Oil Emulsions and Spreadable Fats — Determination of Fat Content (Reference Method)
27	FTZS 2624:2020/ISO 749:1977	Oilseeds Residues-Determination of Total Ash
28	FTZS 1355:2020	Artificially Sweetened Flavoured Drinks
29	FTZS 1351:2020	Flavoured Drink In Solid Form — Specification
30	FTZS 1583:2020	Processed Cultivated Edible Mushrooms — Specification
31	FTZS 2649:2020	Banana Flour- Specification
32	FTZS 113:2020	Code of Hygienic Practice for Processed Fruit and Vegetable Products
33	FTZS 2646:2020/ISO 7702:2001	Dried Pears -- Specification and Test Methods
34	FTZS 2647:2020/ISO 7701:1994	Dried Apples -- Specification and Test Methods
35	FTZS 2648-1:2020/ISO 8128-1:1993	Apple Juice, Apple Juice Concentrates and Drinks Containing Apple Juice -- Determination of Patulin Content -- Part 1: Method Using High-Performance Liquid Chromatography
36	FTZS 2648-2:2020/ISO 8128-2:1993	Apple Juice, Apple Juice Concentrates and Drinks Containing Apple Juice -- Determination of Patulin Content -- Part 2: Method Using Thin-Layer Chromatography
37	FTZS 1082:2020	Dried Banana- Specification
38	FTZS 557:2020	Amaranth Flour – Specification
39	FTZS 1801:2020/EAS 352:2020	Chewing gum - specification
40	FTZS 572:2020/EAS 351:2020	Toffee – specification
41	FTZS 2678:2020/ISO 16577:2016	Molecular biomarker analysis - Terms and definitions
42	FTZS 2679:2020/ISO 20813:2019	Molecular biomarker analysis - Methods of analysis for the detection and identification of animal species in foods and food products (nucleic acid-based methods) - General requirements and definitions
43	FTZS 2680:2020/ISO 16578:2013	Molecular biomarker analysis - General definitions and requirements for microarray detection of specific nucleic acid sequences
44	FTZS 2681:2020/ ISO 13495:2013	Foodstuffs - Principles of selection and criteria of validation for varietal identification methods using specific nucleic acid

45	FTZS 2682:2020/ISO/TS 16393:2019	Molecular biomarker analysis - Determination of the performance characteristics of qualitative measurement methods and validation of methods
46	FTZS 2070:2020	Principles for the risk analysis of foods derived from modern biotechnology- Code of practices
47	FTZS 2071:2020	Biotechnology- Guideline for the conduct of food safety assessment of food derived from Recombinant DNA Plants-Code of practices
48	FTZS 2072:2020	Biotechnology - Guideline for the conduct of food safety assessment of foods produced using recombinant-DNA micro-organisms- Code of practices
49	FTZS 2073:2020	Biotechnology - Guideline for the conduct of food safety assessment of foods produced using recombinant-DNA animals - Code of practices
50	FTZS 2684:2020/ISO3493:2014	Vanilla – Vocabulary
51	FTZS 31: 2020	Chilies and capsicums (whole and ground) – Specification
52	FTZS 358:2020	Cardamom-specification
53	FTZS 1734: 2020	cinnamon — Specification
54	FTZS 2685:2020	Garlic paste – Specification
55	FTZS 1744:2020	Dehydrated garlic Specification
56	FTZS 2686:2020/ISO 2256:1984/Amd 1:2017	Dried mint (spearmint) (<i>Mentha spicata</i> Linnaeus syn. <i>Mentha viridis</i> Linnaeus) – Specification
57	FTZS 2687:2020/ ISO 6577:2002	Nutmeg, whole or broken, and mace, whole or in pieces
58	FTZS 2650:2020 /ARS 1103:2018(E)	Production and handling of cassava - Good agricultural practices
59	FTZS 2720:2020 / ISO 8588:2017	Sensory analysis — methodology — “a” – “not a” test
60	FTZS 2721:2020/ ISO 13301:2018	Sensory analysis — methodology — general guidance for measuring odour, flavour and taste detection thresholds by a three-alternative forced-choice (3-afc) procedure.
61	FTZS 2722-1:2020/ ISO 13300-1:2006	Sensory analysis — general guidance for the staff of a sensory evaluation laboratory — part 1: staff responsibilities
62	FTZS 2722-2:2020/ ISO 13300-2:2006	Sensory analysis — general guidance for the staff of a sensory evaluation laboratory — part 2: recruitment and training of panel leaders.
63	FTZS 1966:2017/ Amd.1:2020	Stingless bee honey- Specification
64	FTZS 2699: 2020/ISO 13307:2013	Microbiology of food and animal feed- Primary Production stage -Sampling techniques
65	FTZS 2700: 2020/ ISO/ TS 17728:2015	Microbiology of the food chain- Sampling techniques for microbiological analysis of food and feed samples
66	FTZS 2701: 2020/ ISO 15214:1998-	Microbiology of food and animal feeding Stuffs- Horizontal method for the enumeration of mesophilic lactic acid bacteria- Colony-count technique at 30 °C
67	FTZS 2702:2020/ISO 13720:2010	Meat and meat products — Enumeration of presumptive <i>Pseudomonas</i> spp.

68	FTZS 2703: 2020/ ISO 22118:2011	Microbiology of food and animal feeding stuffs -Polymerase chain reaction (PCR) for the detection and quantification of food-borne pathogens- Performance characteristics
69	FTZS 2704: 2020/ ISO 22174:2005	Microbiology of food and animal feeding stuffs -Polymerase chain reaction (PCR) for the detection of food-borne pathogens- General requirements and definitions
70	FTZS 2705: 2020/ ISO 20837:2006	Microbiology of food and animal feeding stuffs -Polymerase chain reaction (PCR) for the detection of food-borne pathogens -Requirements for sample preparation for qualitative detection
71	FTZS 2706: 2020/ ISO 2038:2006	Microbiology of food and animal feeding stuffs -Polymerase chain reaction (PCR) for the detection of food-borne pathogens -Requirements for amplification and detection for qualitative methods
72	FTZS 2707: 2020/ISO/ TS 17919	Microbiology of the food chain - Polymerase chain reaction (PCR) for the detection of food-borne pathogens- Detection of botulinum type A, B, E and F neurotoxin-producing clostridia
73	FTZS 2708: 2020/ ISO 19020: 2017	Microbiology of the food chain- Horizontal method for the immunoenzymatic detection of staphylococcal enterotoxins in foodstuffs
74	FTZS 2753:2020	Bakery products - methods of sampling
75	FTZS 2752:2020	Bakery products - methods of analysis
76	FTZS 2754:2020	Glossary Terms relating to Bakery industry
77	FTZS 1429:2020	Frozen uncooked chapati – Specification
78	FTZS 584:2020	Wafers – Specification
79	FTZS 111:2020	Bakery units - Code of hygiene
80	FTZS 155:2020	Sugar confectionery - Methods of sampling and analysis
81	FTZS 645:2020	Ice cream cone – Specification
82	FTZS 1426:2020	Edible ices (ice lollies) – Specification
83	FTZS 1487:2020	Kashata – Specification
84	FTZS 2771:2020	Samosa (Manda) and spring roll sheets – specification
85	FTZS 2772:2020/ARS 853:2016	Cassava bread – Specification
86	FTZS 615:2020	Pasta products- specification
87	FTZS 2773:2020	Biotechnology - Genetically modified organisms and their derived products - Requirements for surveillance
88	FTZS 2774:2020	Biotechnology - Methods for analysis of genetically modified organisms and derived products in foodstuffs – Polymerase chain reaction (PCR) based screening strategy
89	FTZS 2775:2020	Biotechnology - Genetically modified organisms and derived products – Requirements for labelling of food, feed and ingredients.
90	FTZS 2776:2020	Biotechnology - genetically modified organisms and derived products – Requirements for handling, transportation and use.

91	FTZS 2777:2020	Biotechnology - Guidelines on performance criteria and validation of methods for detection, identification and quantification of specific DNA sequences and specific proteins in foods
92	FTZS 2778:2020	Biotechnology - Sampling strategies for the detection of genetically modified organisms and derived products
93	FTZS 2779:2020/ISO 21572:2019	Foodstuffs - Molecular biomarker analysis - Immunochemical methods for the detection and quantification of proteins
94	FTZS 2780:2020	Tamarind (Ukwaju) pulp specification
95	FTZS 2781:2020	Baobab fruit powder- Specification
96	FTZS 838:2020	Energy drink specification
97	FTZS 2782:2020	Dried peaches -- Specification and test methods
98	FTZS 2783:2020 /ISO 7908:1991	Dried sweet cherries – Specification
99	FTZS 2784:2020 /ISO 7910:19	Dried mulberries – Specification
100	FTZS 2785	Dried lemon grass leaves-specification
101	FTZS 2786 :2020	Ginger paste specification
102	FTZS 2787:2020	Mayonnaise– Specification
103	FTZS 2788:2020	Dehydrated soup, canned soups and broths – Specification
104	FTZS 1735:2020	Vanilla –Specification
105	FTZS 1736:2020	Coriander –Specification
106	FTZS 2789:2020 / ISO 11162:2001	Peppercorns (Piper nigrum L.) in brine – Specification and test methods
107	FTZS 2790:2020 / ISO 10621:1997	Dehydrated green pepper (Piper nigrum L.) – Specification
108	FTZS 457: 2020	Code of hygienic practices for spices and dried aromatic plants
109	352: 2020/EAS 28:2018	Black tea – Specification
110	1 7 3 1 : 2 0 2 0 / E A S 921:2018	Green tea—Specification
111	2 7 9 1 : 2 0 2 0 / E A S 922:2018	Flavoured black tea —Specification
112	2 7 9 2 : 2 0 2 0 / E A S 923:2018	Instant tea —Specification
113	1 6 4 6 : 2 0 2 0 / E A S 456:2019	Organic production standard
114	987:2020/EAS 904:2019	Fertilizers — Phosphate rock powder — Specification
115	988:2020/EAS 905:2019	Fertilizers — Granulated phosphate rock — Specification
116	157:2020/EAS 906:2019	Fertilizers — Triple Superphosphate — Specification

117	783:2020/EAS 907:2019	Fertilizers — Potassium sulphate (sulphate of potash) — Specification
118	779:2020/EAS 908:2019	Fertilizers — Potassium chloride (muriate of potash) — Specification
119	777:2020/EAS 909:2019	Fertilizers — Calcium ammonium nitrate (CAN) — Specification
120	776:2020/EAS 910:2019	Fertilizers — Urea — Specification
121	158:2020/EAS 911:2019	Fertilizers — Ammonium sulphate (sulphate of ammonia) — Specification
122	778:2020/EAS 912:2019	Fertilizers — Nitrogen, Phosphorus, Potassium (NPK) Compound — Specification
123	159:2020/EAS 913:2019	Solid Fertilizers — Methods of sampling

Environment standards

1	FTZS 837-1:2020	Guidelines for planning the samples of atmosphere and location of monitoring stations
2	FTZS 837-3:2020	Stationary source emissions – Manual determination of mass concentration of particulate matters
3	FTZS 837-4:2020	Stationary source emissions – Determination of mass concentration of sulphur dioxide – Hydrogen peroxide/ barium perchlorate/ thorin method
4	FTZS 837-5:2020	Stationary source emissions – Determination of mass concentration of nitrogen oxides: Naphthyl ethylene diamine Photometric method
5	FTZS 837-7:2020	Stationary source emissions – Determination of carbon monoxide, carbon dioxide and oxygen – Performance characteristics and calibration of automated measuring systems
6	FTZS 2734/ISO 14152	Neutron radiation protection shielding - Design principles and considerations for the choice of appropriate materials
7	FTZS 2733:2020/ ISO 3999:2004	Radiation protection — Apparatus for industrial gamma radiography — Specifications for performance, design and tests
8	FTZS 2756:2020 / ISO 13964:1998	Air Quality- Determination of ozone in ambient air- Ultra violet photometric method.
9	FTZS 837-7:2020	Stationary source emissions – Determination of gas and particle-phase polycyclic aromatic hydrocarbons – Sample preparation, clean-up air and determination.
10	FTZS 837-8:2020 -	Sampling and test method – Determination of particulate lead content of aerosols collected on filters – atomic absorption spectrometric method.
11	FTZS 2757:2020 -	Air quality- determination of the number concentration of air borne inorganic fibres – membrane filtration method.
12	FTZS 1522:2020 /ISO 24511:2007	Activities related to drinking water and waste water services- Guideline for the management of waste water utilities and for the assessment of waste water services

Textile and leather standards

1	FTZS 406:2020	Textiles - Cotton drills –Specification.
2	FTZS 690:2020	Textiles - Guide to garment quality.
3	FTZS 691:2020	Textiles - General labelling of all products manufactured from textiles.
4	FTZS 693-1:2020/ISO 8559-1:2017	Textiles - Size designation of clothes - Part 1: Anthropometric definitions for body measurements.
5	FTZS 693-2:2020/ISO 8559-2:2017	Textiles - Size designation of clothes - Part 2: Primary and Secondary dimension indicators.
6	FTZS 896:2020	Textiles - Specification for handmade batiks.
7	FTZS 1136:2020	Textiles - Zippers – Specification
8	FTZS 1137:2020	Textiles - Tie and Dye – Specification.
9	FTZS 1420:2020/ ISO 4915:1991	Textiles - Stitch types for garments – Specification.
10	FTZS 1421:2020	Textiles - Specification for cotton Denim fabrics.
11	FTZS 1549:2020	Textiles - Lining fabric – Specification.
12	FTZS 2735:2020 / ISO 3060:1974	Textiles — Cotton fibres – Determination of breaking tenacity of flat bundles.
13	FTZS 2736:2020 / ISO 5079:1995	Textile fibres — Determination of breaking force and elongation at break of individual fibres.
14	FTZS 20:2020	Textiles – Woven fabrics – Determination of the number of threads per unit length.
15	FTZS 1090:2020	Textiles – Specification for spun polyester yarns –Yarns for weaving.
16	FTZS 1091:2020	Textiles – Specification for spun polyester yarns – Yarns for knitting.
17	FTZS 1425:2020	Textiles – Sewing threads specification – Sewing threads made wholly or partly from synthetic fibres.
18	FTZS 662:2020	Textiles – Sisal bags – Specification.
19	FTZS 1230-1:2020	Textile – Specification for mosquito nets: Part 1: Nets made from 100 % Polyester yarn.
20	FTZS 1424:2020	Textiles — Woven and knitted, flocked, flannelette sheets, sheeting and pillow cases, bedspread fabrics and bedspreads — Specification
21	FTZS 1600:2020	Textiles — A-Twill Jute Bags — Specification.
22	FTZS 1726:2020.	Textiles — Woven and warp knitted quilt fabrics — Specification
23	FTZS 1729:2020	Textiles — Hessian bags — Specification.
24	FTZS 1730:2020	Textiles — B-Twill Jute cloth — Specification.
25	FTZS 2737:2020	Textiles – High Density Polyethylene (HDPE)/Polypropylene (pp) Woven Leno Sacks for packaging and storage of fruits and vegetables – Specification.

26	FTZS 2738:2020	Textiles – Flexible Intermediate Bulk containers for non-dangerous goods.
27	FTZS 2741:2020	Textiles – Woven Necktie and Scarf Fabrics – Specification
28	FTZS 2742:2020	Textiles - Elastic tape – Specification

Building and Construction standards

1	FTZS 2688-7:2020/ ISO 1920-7:2004	Testing of concrete —Part 7: Non-destructive tests on hardened concrete
2	FTZS 2688-8:2020/ ISO 1920-8:2004	Testing of concrete —Part 8: Determination of drying shrinkage of concrete for samples prepared in the field or in the laboratory
3	FTZS 2688-9:2020/ ISO 1920-9:2009	Testing of concrete —Part 9: Determination of creep of concrete cylinders in compression
4	FTZS 2689-1:2020/ ISO 17785-1:2016	Testing methods for pervious concrete—Part 1: Infiltration rate
5	FTZS 2689-2:2020/ ISO 17785-2:2016	Testing methods for pervious concrete —Part 2: Density and void content
6	FTZS 2690:2020/ ISO 19338:2014	Performance and assessment requirements for design standards on structural concrete
7	FTZS 656: 2020	Copper/chromium/arsenic composition for the preservation of timber – Specification
8	FTZS 661: 2020	Copper/chromium/arsenic compositions for the preservation of timber – Method for timber treatment
9	FTZS 685: 2020	Specification for wood preservation by means of pressure creosoting
10	FTZS 686: 2020	Wood poles and blocks for power and telecommunication lines – Specification
11	FTZS 1347:2020	Preservative-treated timber
12	FTZS 2682:2020	Hardwood furniture timber--Specification
13	FTZS/2694:2020 / ISO/ TR17870-1:2015	Ceramic tiles -- Guidelines for installation -- Part 1: Installation of ceramic wall and floor tiles
14	FTZS 2691:2020/ EN 13963:2005	Jointing materials for gypsum plasterboards- Definitions, requirements and test methods
15	FTZS 2692:2020/ ISO26986:2010	Resilient floor coverings – Expanded(cushioned) poly (vinyl chloride) floor covering – Specifications (Ed 1)
16	FTZS 2693:2020/ EN 13245-1:2010	Plastics- Unplasticized poly (vinyl chloride) (PVC-U) profiles for building applications- Part 1: Designation of PVC-U profiles

17	FTZS 2695:2020/ BS EN 132452:2008	Plastics- Unplasticized poly (vinyl chloride) (PVC-U) profiles for building applications- Part2: PVC-U profiles and PVC-UE profiles for internal and external wall and ceiling finishes
18	FTZS 2696-1:2020/ ISO 50191:1984	Refractory bricks - Dimensions - Part 1: Rectangular bricks
19	FTZS 2696-2:2020/ ISO 5019-2:1984	Refractory bricks - Dimensions - Part 2: Arch bricks
20	FTZS 2696-3:2020/ ISO 5019-3:1984	Refractory bricks - Dimensions - Part 3: Rectangular checker bricks for regenerative
21	FTZS 2696-4:2020/ ISO 5019-4:1984	Refractory bricks - Dimensions - Part 4: Dome bricks for electric arc furnace roofs
22	FTZS 2696-5:2020/ ISO 5019-5:	Refractory bricks - Dimensions - Part 5: Skewbacks
23	FTZS 2696-6:2020/ ISO 5019-6:2005	Refractory bricks - Dimensions - Part 6: Basic bricks for oxygen steel-making converters
24	FTZS 2697:2020/ ISO 9205:1988	Refractory bricks for use in rotary kilns - Hot-face identification marking
25	FTZS 2698-1:2020/ ISO 16311-1:2014	Maintenance and repair of concrete structures — Part 1: General principles
26	FTZS 2698-2 :2020/ ISO 16311-2:2014	Maintenance and repair of concrete structures — Part 2: Assessment of existing concrete structures
27	FTZS 2698-3:2020/ ISO 16311-3:2014	Maintenance and repair of concrete structures — Part 3: Design of repairs and prevention
28	FTZS 2698-4:2020/ ISO 16311-4:2014	Maintenance and repair of concrete structures — Part 4: Execution of repairs and prevention
29	FTZS 488:2020	Specification for concrete roofing tiles and fittings (Ed 2)
30	FTZS 489: 2020	Clay roofing tiles and Fittings -Product definitions and specifications (Ed 3)
31	FTZS 2767:2020/ ISO 24011: 2009	Resilient floor coverings — Specification for plain and decorative linoleum
32	FTZS 2768:2020/ ISO 20326:2016	Resilient floor coverings — Specification for floor panels/assembly for loose laying
33	FTZS 2769:2020/ ISO26987:2008	Resilient floor coverings — Determination of staining and resistance to chemicals
34	FTZS 2770:2020/ ISO/ TR 17870-2:2015(E)	Ceramic tiles — Guidelines for installation —Part 2: Installation of thin ceramic wall and floor tiles and panels
35	FTZS 2799-1:2020	PVC-U window and door frames for external use – Part 1: PVC-U profiles for window and door frames.
36	FTZS 2799-2:2020	PVC-U window and door frames for external use – Part 2: Windows with frames made from PVC-U profiles.
37	FTZS 2688-10:2020/ISO 1320 – 10:2010	Testing of concrete —Part 10: Determination of static modulus of elasticity in compression.
38	FTZS 2688-11:2020/ISO 1320 – 11:2013	Testing of concrete —Part 11: Determination of the chloride resistance of concrete, unidirectional diffusion.
39	FTZS 2688-12:2020/ISO 1320 – 12:2015	Testing of concrete —Part 12: Determination of the carbonation resistance of concrete
40	FTZS 2688-13:2020/ISO 1320 – 13:2018	Testing of concrete —Part 13: Properties of fresh self-compacting concrete.

General techniques standards		
41	FTZS 2635:2020/ARS 1651:2018	Good financial grant practice-Requirements
42	FTZS 2659:2020/ ISO 14785:2014	Tourist information offices -- Tourist information and reception services – Requirements.
43	FTZS 2660:2020/ ISO 13009:2015	Tourism and related services -- Requirements and recommendations for beach operation.
44	FTZS 2661:2020/ ISO 21401:2018	Tourism and related services -- Sustainability management system for accommodation establishments – Requirements
45	FTZS 2662:2020/ ISO 21611:2018	Adventure tourism — Good practices for sustainability — Requirements and recommendations
46	FTZS 2663:2020.	Garbage bags –Specification
47	FTZS 2664:2020	Aluminium foil –Specification.
48	FTZS 2665-1:2020	Blow Moulded Polyolefin Containers - Part 1 : Up to 5 Litres Capacity.
49	FTZS 2665-2:2020	Blow Moulded Polyolefin Containers - Part 2 : over 5 Litres Up to and including 60 Litres Capacity
50	FTZS 2665-3:2020	Blow Moulded Polyolefin Containers - Part 3: over 60 Litres Up to and including 200 Litres Capacity
51	FTZS 2814:2020 /ISO 10019:2005	Guidelines for the selection of quality management system consultants and use of their service
52	FTZS 1457:2020 /ISO 10006:2017	Quality management system - Guidelines for the quality management in projects.
53	FTZS 1455:2020 /ISO 10002:2018	Quality management – Customer Satisfaction-Guidelines for complaints handling in organizations
54	FTZS 1533 /ISO 10005:2018	Quality management -- Guidelines for quality plans.
55	FTZS 1458:2020 /ISO/ TR 10013:2001	Guidelines for quality management system documentation
56	FTZS 1587 /ISO 10014:2006	Quality management- Guidelines for realizing financial and economic benefits
57	FTZS 2732 /ISO/IEC 17000:2004	Conformity assessment -- Vocabulary and general principles.
58	FTZS 2815 /ISO/IEC 17011:2017	Conformity assessment -- Requirements for accreditation bodies accrediting conformity assessment bodies
59	FTZS 720:2020 /ISO/ IEC 17020:2012	Conformity assessment -- Requirements for the operation of various types of bodies performing inspection.
60	FTZS 2816 /ISO/IEC 17065:2012	Conformity assessment -- Requirements for bodies certifying products, processes and services
61	FTZS 2817 /ISO/TR 31004:2013	Risk management -- Guidance for the implementation of ISO 31000.
62	FTZS 1459 /ISO 10001:2018	Quality management -- Customer satisfaction -- Guidelines for codes of conduct for organizations
63	FTZS 2818 /ISO 10003:2018	Quality management -- Customer satisfaction -- Guidelines for dispute resolution external to organizations.

SHORT COURSE TRAINING

During the period of January – June 2020, the following employees attended short course training;

S/N	Name of short courses conducted	No. of employees attended short term training
1	Mapitio ya mpango mkakati wa kupambana na rushwa awamu ya tatu	5
2	Training on organisational ict security	2
3	Iodt board secretary course	1
4	Entrepreneurship for small business trainers/promoters programme (esb-tp) at the national institute of entrepreneurship and small business development, india,	1
5	International training programme on competence and management systems of laboratories at the national institute of training for standardization (bis), noida,	2
6	Progress to profficiency basic, india	1
7	Routine service inspection for vehicles	1
8	Service, maintenance and troubleshooting on gc, gc-ms, hplc and lc-ms; - united kingdom	2

LONG COURSE TRAINING

During the period of January – June 2020, the following employees attended long course training;

S/N	NAME & POSITION	COURSE	DURATION	SPONSOR	UNIVERSITY
1	Mr. Donald Manyama Senior Quality Assurance Officer I	Master of Science in Environment Technology Management	2 Years	TBS	Ardhi University
2	Mr. William Mduma Laboratory Technician II	Bachelor of Science in Petroleum Chemistry	3 Years	HESLAB	UDSM
3	Mr. Mathias Missanga Senior Standards Officer I	Master in Life Sciences (Sustainable Agriculture)	2 Years	TBS	Nelson Mandela University
4	Mr. Azizi Abdallah Quality Assurance Officer II	Master of Science in Civil Engineering	3 years	Chinese Gvt	Beijing Jiao tong University – China
5	Mr. John Tesha Inspector II	PhD in Material Science and Engineering	3 years	Chinese Gvt	Tianjin Polytechnic UNIVERSITY –CHINA

6	Mr. Pumbua Kazungu Laboratory Techn II	Master of Science in Applied Geology	3 years	Indian Gvt	Indian Institute of Technology
7	Mr. John Malolela Systems Administrator II	Master of Science in Information System Management	2 years	Private Spon- sorship	UDSM
8	Mr. Juma Msenya Maintenance Techn II	Bachelor of Engineer- ing in Electrical Engi- neering	3 years	Private Spon- sorship	DIT
9	Mr. Cyril Kimario Standards Officer I	Master in Engineering Management	2 years	TBS	UDSM
10	Mr. Doctor Kusaja Quality Assurance Officer I	Master of Science in Oil and Gas Engineering	2 years	TBS	UDSM
11	Mr. Alphred Mosha Quality Assurance Officer I	Master of Science in Chemistry	2 years	TBS	UDSM
12	Mr. Deusdedit Paschal Quality Assurance Officer I	Master of Science in Environmental Technol- ogy and Management	2 years	TBS	Ardhi University
13	Mr. Joseph Malakalinga Quality Assurance Officer II	PhD Programme in Mo- lecular Epidemiology of Microorganism of Pub- lic Health	3 years	SACIDS (ACE)	SUA
14	Mr. Joseph Kadenge Metrologist I	Master's in Applied Mathematics and Computational Science	2 years	TBS	Nelson Mandela University
15	Ms. Ashura Kilewela Quality Assurance Officer I	Ph. D in Food Science and Technology	3 years	TBS	UDSM
16	Mr. Ramadhani Yange Senior Quality Assurance Officer II	Masters of Science in Sustainable Energy Science and Engineer- ing	2 years	TBS	Nelson Mandela University
17	Mr. Habakuki Kalebo Quality Assurance Officer I	Master of Science in Chemistry	2 years	Mofcom Chi- na scholar- ship	Harbin Institute of technology –China

18	Mr. Lucas Ndyamkama Inspector II	Master in Engineering Management	18 Months	Private Sponsorship	University of Dar es salaam
19	Ms. Matrona Emmanuel Quality Assurance Officer I	Master of Science in Food Quality and Safety Assurance	2 years	TBS	SUA
20	Ms. Julieth Elibaliki Quality Assurance Officer I	Master of Science in Chemistry	2 years	TBS	UDSM
21	Ms. Gudila Boniface Quality Assurance Officer I	Master of Science in Food Quality and Safety Assurance	2 years	TBS	SUA
22	Ms. Princess Elias Quality Assurance Officer II	Master of Science in Food Science and Technology	2 years	DAAD	UDSM
23	Ms. Glory Siako Quality Assurance Officer I	Master of Science in Food Science and Technology	2 years	Private Sponsor	UDSM
24	Mr. Clarence Haule Senior Quality Assurance Officer II	Master of Science in Environmental Technology and Management	18 Months	TBS	Ardhi University
25	Ms. Lilian Gabriel Standards Officer I	Master of Science in Public Health and Food Safety	2 years	TBS	UDSM
26	Hassan Abinala Juma Quality Assurance Officer I	Masters of Science in Sustainable Energy Science and Engineering	2 years	TBS	Nelson Mandela University
27	Edith Nemes Lyimo Senior Quality Assurance Officer I	PhD in Environment Science	3 years	TBS	Nelson Mandela University
28	Alfred Emil Nkhama Metrologist II	Masters of Science in materials Science	2 Years	US Sponsorship	PITTSBURG STATE

29	Christina John Omodo Quality Assurance Officer I	Masters in Project Management	2 Years	France Embassy Sponsorship	ANLANTIQUE
30	Johnson Hans Kiwia Standards Officer I	Master of Science in Textile Design, Technology and Innovation	1 Year	TBS	DE MONTFORT
31	Simon Gervas Kidiga Quality Assurance Officer I	Masters in Industrial Engineering	2 Years	Chinese Gvt	Hunan University - China
32	Mr. Gibron Charles Shayo Standard Officer I	MSc. In Oil and Gas Technology	18 Months	TBS	UDSM
33	Ms. Hilda Fredy Mwakosya Quality Assurance Officer I	Msc. In Food Safety and Quality Assurance	2 Years	TBS	SUA
34	Ms. Oliver Lekule Procurement Officer	MSc. In Procurement and Supply Chain Management	18 Months	TBS	MU
35	Ms. Catherine Akwilapo Quality Assurance Officer I	MSc. In Food Quality and Safety Assurance	2 Years	TBS	SUA
36	Mr. Stephen Augustine Minja Quality Assurance Officer I	Msc. In Industrial Eng.	2 Years	TBS	UDSM
37	Mr. Simon Gervas Kidiga Quality Assurance Officer	Msc. In Industrial Eng.	2 Years	GPR/CHINA	HUNAN UNIVERSITY
38	Gerald J. Magola Quality Assurance Officer I	MSc. Of Integrated Water Resources Management	18 Months	TBS	UDSM
39	Ms. Anectus Ndunguru Metrologist I	Master of Engineering Degree in Sustainable Energy Eng.	2 Years	TBS	DIT

Newly recruited contract employees

During the period of January to June 2020, the Bureau recruited the following staff on contract;

S/N	NAME	DIRECTORATE ALLOCATED
1.	Shabani Azizi	DQM/Namanga Border Station
2.	Moses Moses Munuo	DQM/Namanga Border Station
3.	Beatrice Rogathe Lema	DQM/Certification Section
4.	Shamimu Ismail Isimbula	DQM/Certification Section
5.	Irene John Mboya	DQM/Certification Section
6.	Gwalugwa Ntemi Nhandi	DQM/Certification Section
7.	Hellen Moses Molel	DQM/Certification Section
8.	Kassim Eliasa Nkya	DQM/Import Inspection Section
9.	Mary Seuri Lilayo	DQM/Import Inspection Section
10.	Anyopa David Mayonjo	DQM/Import Inspection Section
11.	Jackline Benedict Nyandoa	DQM/Import Inspection Section
12.	Happines Saria Lema	DQM/Import Inspection Section
13.	George Justine Temu	DQM/Bagamoyo Border Station
14.	Martin Michael Martin	DQM/Registration activities
15.	Mariam John Mkanza	DTM/Food and Microbiology Laboratory

Transfers

During the period under review, TBS received 35 transferred employees from other Government Institutions as stipulated in the following table;

S/N	NAME	TITLE & EFFECTIVE DATE	SECTION DEPLOYED	FROM (INSTITUTION)
1	Eugenia Michael Kombeo	Quality Assurance Officer II 2020-01-03	Food and Microbiology Laboratory	RAS Ruvuma Region
2	Juma Suleiman Shaibu	Driver II 2020-01-06	Administration Services Section	University of Dodoma (UDOM)
3	Heavenlight. E. Makere	Driver I 2020-01-10	Administration Services Section	Siha District Council
4	Charles Ladislaus Nachenga	Metrologist II 2020-01-22	Metrology Laboratory	IRDP Dodoma
5	Paul Gasper Nyamhanga	Office Assistant 2020-01-29	Administration Services	TMA
6	Salum Juma Athu-mani	Driver II 2020-01-30	Administration Services Section	East and Central Africa Statistical Training Institute

7	Emmanuel Alex Mushi	Quality Assurance Officer II 2020-01-31	Imports Inspection Section	Tanzania Diary Board
8	Phineas Magori Ocholla	Standards Officer II 2020-02-04	Food and Agriculture Standards	Maswa District Council
9	Tatu Salehe Yusuf	Quality Assurance Officer II 2020-02-11	Chemistry Laboratory	Tanga City Council
10	Yusuph Stephano Lupian	Quality Assurance Officer II 2020-02-13	Chemistry Laboratory	Korogwe District Council
11	Miraji Bakari Kambangwa	Standards Officer II 2020-02-14	Chemistry Standards	Iringa District Council
12	Rebecca C. Mpema	Office Management Secretary I 2020-02-17	Administration Services Section	University of Dar es Salaam (UDSM)
13	Naftaly J. Naftaly	Standard Officer II 2020-03-03	Environmental Standards	Ifakara Town Council
14	Muhyuddin R. Marunda	Principal Office Assistant 2020-03-16	Administration Services Section	Judiciary of Tanzania
15	Beatrice A. Mbelwa	Senior Office Assistant 2020-03-16	Administration Services Section	University of Dar es Salaam (UDSM)
16	Babuu A. Shirima	Metrologist II 2020-03-23	Metrology Laboratory	Weight and Measures Agency (WMA)
17	Heriel Boniface Msangi	Quality Assurance Officer II 2020-03-24	Certification Section	Ministry of Water
18.	Rose John Mussa	Personal Secretary II 2020-04-06	Premises and Product Registrations	Tarime District Council
19.	Flavius B. Rugemalira	Inspector II 2020-04-14	Certification	Songea District Council
20.	Michael Peter Mayala	Quality Assurance Officer II 2020-04-24	Certification	Manyoni District Council
21.	Moshi Janes Obondo	Quality Assurance Officer II 2020-04-24	Certification	Itilima District Council
22.	Justinius Paulo Kampuni	Quality Assurance II 2020-04-24	Building and Construction Laboratory	National Commission for Minerals
23.	Ezekiel Bernard Mwonge	Driver I 2020-04-30	Administration Services	Ministry of Finance and Planning
24.	Dangio Lyemella Mmvela	Quality Assurance Officer II 2020-05-12	Food Laboratory	Iringa District Council
25.	Maulid Abdallah Maulid	Procurement Officer II 2020-05-14	Procurement Management Unit	Tengeru Institute of Community Development
26.	Hanna Frank Mwailunga	Laboratory Technician II 2020-05-22	Building and Construction Laboratory	Newala District Council

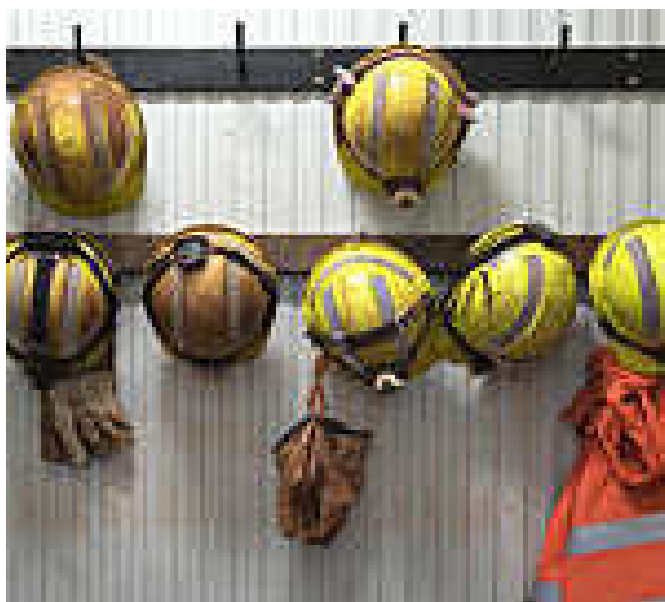
27.	Fatuma A. Jumanne	Accountant II 2020-05-22	Finance and Accounts	Rural and Urban Water Supply and Sanitation Authority (RUWASA)
28.	Helmina Elenzian Ngonyani	Quality Assurance Officer II 2020-05-27	Textile Laboratory	Kibondo District Council
29.	Loius Eleotherius Ponera	Driver I 2020.06.01	Administration Services	Mpimbwe District Council
30.	Sadiki Juma Selemani	Quality Assurance Officer II 2020-06-15	Mechanical Laboratory	Kinondoni Municipal Council
31.	Maombi Musa Khan	Senior RMA II 2020-06-16	Administration Services	Tarime District Council
32.	Mwanahamisi Ally Gunguti	Quality Assurance Officer II 2020-06-19	Imports Inspection	Ministry of Livestock Development
33.	Jane Magori Marwa	Standard Officer II 2020-06-22	Building and Construction Standards	Tume ya Taifa ya Umwagiliaji (NRC)
34.	Aram Bahati Kwipasha	Quality Assurance Officer II 2020-06-22	Chemistry Laboratory	Kigoma District Council
35.	Sophia Ngurungu	Assistant Accountant	Finance and Accounts	Tanzania Atomic Energy Commission

APPOINTMENTS

During the period under review, the TBS management appointed the following members of staff to the following positions;

S/N	NAME	TITTLE
1	Moses Mbambe	Product and premises Registration Coordinator
2	Francis Mapunda	Acting Head of Arusha Zone.
3	Deusdedith Paschal Chugga	Acting Head of Inspection and Enforcement
4	Alexander Thomas Mashalla	Acting Head Chemical Standards
5	Salum Abdul Kindoli	Head of Food Microbiology Laboratory

New handbook helps SMES create safe and healthy workplaces



Health and safety at work not only save lives, they are essential to effective business performance. ISO 45001 is the first and only International Standard for occupational health and safety (OH&S) management, a result of agreed good practice from around the world. A new handbook has just been published to help small organizations get the most out of it.

Decent work is safe work, says the International Labour Organization, and few would disagree. Yet still some 2.78 million people die from occupational-related accidents or diseases every year. Add to that hundreds of millions of non-fatal accidents and health conditions and it is clear that the cost to society and the economy is significant.

ISO 45001, *Occupational health and safety management systems – Requirements with guidance for use*, aims to improve those statistics by providing an agreed framework to reduce workplace risks, enhance health, increase safety and promote well-being at work.

A new handbook, published jointly by ISO and the United Nations Industrial Development Organization, provides additional guidance specifically to small organizations on the implementation of ISO 45001.

Prepared by the group of experts who developed the standard, *ISO 45001:2018 – Occupational health and safety management systems – A practical guide for small organizations* gives an overview of the requirements of ISO 45001 and outlines ways in which small organizations

can establish an OH&S management system, taking into account their particular challenges and needs.

The benefits of such a system are many, including reduced risk of work-related ill-health and injury, greater protection for people who work with or for the organization, a more positive company culture, and an improved reputation amongst clients, suppliers and the community.

ISO 45001:2018 – Occupational health and safety management systems – A practical guide for small organizations can be purchased from your national ISO member or through the ISO Store.

The news is obtained from: <https://www.iso.org/news/ref2552.html>

The future looks smart



A series of standards that map the information technology needs of cities has just been published.

With increasing urbanization and population growth, the future of cities depends on sustainable solutions that support their evolution while improving the well-being of all. The role of information communication technology (ICT) is fundamental, underpinning many aspects of a city such as security, education, transport, health and more. Yet it is extremely complex, with many interconnected parts and interdependencies. Where to begin? A new series of standards will help by providing ICT frameworks to help cities get started, and the first of them has just been published.

ISO/IEC 30145-3, *Information technology – Smart City ICT reference framework – Part 3: Smart city engineering framework*, outlines a smart city engineering framework from the ICT perspective. Consisting of both the horizontal engineering layers and the vertical systems, it provides a clear mapping of the different techniques and components needed for smart city business processes.

Heng Qian, Convenor of the working group of experts that developed the standard, said well-being, transparency, sustainability, economic development, efficiency and resilience, as well as collaboration and innovation, are just some of the benefits of a city “going smart”.

“Smart cities need to meet the current needs of their inhabitants while envisaging their future needs in a way that is sustainable and beneficial,” he said.

“Comprehensive and well-thought-out frameworks help cities to make better decisions in a transparent and intelligent way. These standards are the result of international expertise and best practice and thus

represent a reference that every city can benefit from.”

Future parts of the ISO/IEC 30145 series include ISO/IEC 30145-1, *Information technology – Smart City ICT reference framework – Part 1: Smart city business process framework*, and ISO/IEC 30145-2, *Information technology – Smart City ICT reference framework – Part 2: Smart city knowledge management framework*, which are due to be published next year. The series will thus provide a comprehensive model of the ICT requirements of a smart city.

ISO/IEC 30145-3 was developed by ISO/IEC JTC 1, *Information technology*, the joint technical committee of ISO and the International Electrotechnical Commission (IEC). Its secretariat is held by ANSI, ISO’s member for the USA. The standard can be purchased from your national ISO member, the IEC Store or the ISO Store.

The news is obtained from: <https://www.iso.org/news/ref2551.html>

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TBS mark licences

During the period of January – June 2020, various manufacturers were granted with TBS Standards Mark Licences as indicated in the following table:

S/N	L/N	NAME OF MANUFACTURER	LOCATION	PRODUCT	BRAND	MONTH	
1	2524	PLUG IN LIMITED	DAR ES SALAAM	PVC INSULATED SINGLE CORE CABLE	EURONICS	JANUARY	2020
2	2525	PLUG IN LIMITED	DAR ES SALAAM	PVC INSULATED FLAT TWIN CABLE	EURONICS	JANUARY	2020
3	2526	NKASI INTELECTUAL GROUP	RUKWA	WRITING CHALK	NKASI	JANUARY	2020
4	2527	HABANERO PRODUCTS	DODOMA	CHILL SAUCE	HABANERO	JANUARY	2020
5	2528	SHAYAKYE TRADING CO. LTD	KAGERA	ROASTED & GROUND COFFEE	HAKIKA	JANUARY	2020
6	2529	AKSA ORGANIC PRODUCTS	DAR ES SALAAM	PINEAPPLE AND GINGER LIQUER	NECHA	JANUARY	2020
7	2530	MARIET NATURAL FOOD CO. LTD	NJOMBE	BOTTLED DRINKING WATER	NJOMBE	JANUARY	2020
8	2531	LONGELA INVESTMENT CO. LTD	KILIMANJARO	NON CERAL BASED ALCOHOLIC BEVERAGE	KIJANA BANANA	JANUARY	2020
9	2532	GOLDMARK BEVERAGES LTD	DAR ES SALAAM	VODKA	CROWN 100	JANUARY	2020
10	2533	RAPHAEL GROUP LTD	MBEYA	BROWN SPECIFICATION	KYELA	JANUARY	2020
11	2534	JATU MILLING PLANT CO. LTD	DODOMA	MAIZE FLOUR	JATU	JANUARY	2020
12	2535	RAPHAEL GROUP LTD	MBEYA	MILLED RICE	KYELA	JANUARY	2020
13	2536	MANSOOR MOHAMED KAYONDO	MOROGORO	MILLED RICE	MANSOOR	JANUARY	2020
14	2537	TRIPLE E LISHE	MBEYA	MAIZE FLOUR-SEMBE	TRIPLE E SUPER	JANUARY	2020
15	2538	CLEUS EDWARD KATO	MOROGORO	MILLED RICE		JANUARY	2020
16	2539	BUKOBA WOMEN EMPOWERMENT ASSOCIATION	KAGERA	SOYA FLOUR	BUWEA SOYA	JANUARY	2020
17	2540	NATURE'S FISH LTD	MWANZA	FROZEN FISH FILLETS	NILE PERCH	JANUARY	2020
18	2541	VICTORIA EDIBLE COMPANY LTD	KAGERA	CHILL SAUCE	VICTORIA	JANUARY	2020
19	2542	VEOPEZA CO LTD	PWANI	TOMATO SAUCE	VEOPEZA	JANUARY	2020
20	2543	VEOPEZA CO LTD	PWANI	JAM	VEOPEZA	JANUARY	2020

21	2544	JAPEC LIMITED	DAR ES SALAAM	BOTTLED DRINKING WATER	ISHI	JANUARY	2020
22	2545	ALAF LIMITED	DAR ES SALAAM	COLD DRAWN MILD STEEL WIRE	ALAF	JANUARY	2020
23	2546	LESMIASSA ENTERPRISES LTD	DAR ES SALAAM	READ TO DRINK	POWER TAN-GAWIZI	JANUARY	2020
24	2547	AROE NUTRI FOODS	IRINGA	BOTTLED DRINKING WATER	JIBU	JANUARY	2020
25	2548	NAJENGA TANZANIA LTD	ARUSHA	PRE PAINTED ROOFING SHEET	IT5	JANUARY	2020
26	2549	BRIMA FOOD PRODUCTS CO. LTD	KIGOMA	CASSAVA FLOUR	BRIMA	JANUARY	2020
27	2550	MAI MEALS LTD	DAR ES SALAAM	POTABLE SPIRITA	JASIRI	JANUARY	2020
28	2551	MAI MEALS LTD	DAR ES SALAAM	VODKA	JASIRI	JANUARY	2020
29	2552	EFRAZIA PRODUCTS	DA ES SALAAM	HAIR OIL	ZIA MAGIC	JANUARY	2020
30	2553	HAJJAWI INTERNATIONAL TRADING SDN. BHD	KUALA LUMPUR	PALM OLEIN	SARAWA	JANUARY	2020
31	2554	MIYOMBO GOLDEN RESOURCE COMPANY LTD	DAR ES SALAAM	HONEY	MIYOMBO	JANUARY	2020
32	2555	NICOHAMA ENTERPRISE	MBEYA	CANDIES	PEREMENDE SWEETY	JANUARY	2020
33	2556	VICTORIA EDIBLE COMPANY LTD	BUKOBA	TOMATO PRODUCTS- TOMATO SAUCE AND KETCHUP	VICTORIA TOMATO SAUCE	JANUARY	2020
34	2557	KAPUNGA RICE PROJECT	MBEYA	MILLED RICE	KAPUNGA RICE	JANUARY	2020
35	2558	GAHER FREIGHT FORWARDERS COMPANY LTD	ARUSHA	SEMITRAILER	FLAT BED & TIPPER	FEBRUARY	2020
36	2559	JAMBO FOOD PRODUCTS	SHINYANGA	READY TO DRINK NON-CARBONATED NON-ALCOHOLIC BEVERAGES	JAMBO EMBE DODO JUICE, JAMBO MATUNDA MIX JUICE, JAMBO CHUNGWA JUICE AND JAMBO EMBE BOLIBO JUICE	FEBRUARY	2020
37	2560	NEEMA BRANDS	TABORA	CULTURED SOUR MILK	ANAMOLA	FEBRUARY	2020
38	2561	NEEMA BRANDS	TABORA	MOZZARELLA CHEESE	ANAMOLA	FEBRUARY	2020
39	2562	NEEMA BRANDS	TABORA	BUTTER	ANAMOLA	FEBRUARY	2020
40	2563	NEEMA BRANDS	TABORA	GHEE	ANAMOLA	FEBRUARY	2020

41	2564	MANYARA SPRING	BABATI	BOTTLED DRINKING WATER	MANYARA SPRING	FEBRUARY	2020
42	2565	YASMINA INDUSTRIES LTD	DAR ES SALAAM	BUNS	GOLDEN LOAF	FEBRUARY	2020
43	2566	YASMINA INDUSTRIES LTD	DAR ES SALAAM	PLAIN CAKE	GOLDEN CAKE	FEBRUARY	2020
44	2567	EUROPLAST LIMITED	PWANI	LIQUID HAND WASH SOAP	LANA-DAIS, ROSE, ALOE VER, PEACH, PINE & VIOLET	FEBRUARY	2020
45	2568	EAST COAST OIL AND FATS LTD	DAR ES SALAAM	ARTIFICIAL SOILD TOILET SOAP	SKIN PROC-TETOR	FEBRUARY	2020
46	2569	EAST COAST OIL AND FATS LTD	DAR ES SALAAM	BATHING SOAP	MO	FEBRUARY	2020
47	2570	EUROPLAST LIMITED	PWANI	HAND DISHWASH-ING LIQUID SOAP	LANA	FEBRUARY	2020
48	2571	VIVA PLUS COMPANY	DAR ES SALAAM	LIQUID HAND WASH SOAP	VIVA PLUS	FEBRUARY	2020
49	2572	VIVA PLUS COMPANY	DAR ES SALAAM	HAND DISHWASH-ING LIQUID SOAP	VIVA PLUS	FEBRUARY	2020
50	2573	KWANZA BOTTLERS LTD	DAR ES SALAAM	MINUTE MAID JUICE	TROPICAL & MANGO	FEBRUARY	2020
51	2574	LUKANI KILIMANJARO COFFEE LIMITED	DAR ES SALAAM	ROASTED & GROUND COFFEE	LUKANI	FEBRUARY	2020
52	2575	YASMINA INDUSTRIES LTD	DAR ES SALAAM	WHITE BREAD	GOLDEN LOAF	FEBRUARY	2020
53	2576	PROFATE INVESTMENTS LTD	DAR ES SALAAM	YOGHURT	PROFATE-VANILLA & STRAWBERRY	FEBRUARY	2020
54	2577	MAXI PRO COMPANY	DAR ES SALAAM	LIQUID HAND WASH	ASTRA	FEBRUARY	2020
55	2578	REST FOOD PRODUCTS	ARUSHA	COMPOSITE FLOUR	KINARA	FEBRUARY	2020
56	2579	DRASHT MINERALS LTD	DAR ES SALAAM	BOTTLED DRINKING WATER	FURAHA	FEBRUARY	2020
57	2580	PIMMA GENERAL ENTERPRISES	KAGERA	LAUNDRY BAR SOAP	SANA	FEBRUARY	2020
58	2582	CAPITAL WINE	DODOMA	STILL TABLE WINE	CAPITAL-RED SWEET	FEBRUARY	2020
59	2583	FAMASHINE 2017 PRODUCTS	IRINGA	PEANUT BUTTER	SOFT	FEBRUARY	2020
60	2585	BUGALI AGRI MILLING INVESTMENT	SIMIYU	SUNFLOWER OIL	BUGALI	FEBRUARY	2020
61	2586	BUGALI AGRI MILLING INVESTMENT	SIMIYU	MAIZE FLOUR	BUGALI FOOD SUPER SEM-BE	FEBRUARY	2020
62	2587	JAMBO MASTER CO. LTD	ARUSHA	POTABLE SPIRITS	JAMBO MASTER GIN	FEBRUARY	2020

63	2588	WASION GROUP (TANZANIA) LIMITED	DAR ES SALAAM	SINGLE & THREE PHASE SMART ENERGY METERS	WASION	FEBRUARY	2020
64	2589	MARIET NATURAL FOOD PRODUCTS	NJOMBE	CHILLI SAUCE	MARIET	FEBRUARY	2020
65	2590	MARIET NATURAL FOOD PRODUCTS	NJOMBE	READY TO DRINK ORANGE FLAVOURED DRINK	MARIET	FEBRUARY	2020
66	2591	NEEMA BRANDS	TABORA	FLAVOURED YOGHURT	ANAM'OLA	FEBRUARY	2020
67	2592	MAX PRO COMPANY LIMITED	DAR ES SALAAM	DISINFECTANTS	ASTRA	FEBRUARY	2020
68	2593	MAX PRO COMPANY LIMITED	DAR ES SALAAM	SYNTHETIC ORGANIC LIQUID DETERGENT FOR HOUSEHOLD USE	ASTRA	FEBRUARY	2020
69	2594	ENVIRONMENTAL HERITAGE CO.LTD	DAR ES SALAAM	POTABLE WATER	HERITAGE DRINKING WATER (DARUSO BAR, MAGUFULI HOSTEL, MABIBO HOSTEL, KARIAKOO MARKET AND MAWASILIANO STAND)	FEBRUARY	2020
70	2595	NEHASA QUALITY PRODUCTS	DAR ES SALAAM	READY TO DRINK NON CARBONATED NON ALCOHOLIC BEVERAGE	STRAWBERRY FLAVOURED, UKWAJU WITH HONEY & ORANGE FLAVOURED, UKWAJU JUICE WITH SUGAR	FEBRUARY	2020
71	2596	GOWA INVESTMENT	MANYARA	SUNFLOWER SEED OIL	GOWA	FEBRUARY	2020
72	2597	BIOBEST GROUP (T) LTD	ARUSHA	YOGHURT	PLAIN, STRAWBERRY AND VANILLA FLAVOURED	MARCH	2020
73	2598	DELCO LIMITED	KAGERA	CULTURED SOUR MILK	DELCO	MARCH	2020
74	2599	CONQUER INVESTMENT CO.LTD	DAR ES SALAAM	TOILET PAPER	SHWARI & TEMBO	MARCH	2020
75	2600	ZAIN OIL MILLS	DODOMA	EDIBLE SUNFLOWER OIL	ZAIN	MARCH	2020
76	2601	CHESANO COTTON 2006 (T) LTD	SIMIYU	VIRGIN SUNFLOWER SEED OIL	CHESANO	MARCH	2020
77	2602	CHESANO COTTON 2006 (T) LTD	SIMIYU	SINGLE REFINED COTTON SEED OIL	CHESANO	MARCH	2020
78	2603	MISENANI DAIRY	MWANZA	CULTURE SOUR MILK	MISENANI	MAY	2020

79	2604	MISENANI DAIRY	MWANZA	YOGHURT	MISENANI	MAY	2020
80	2605	WATERCOM (T) LTD	DAR ES SALAAM	ENERGY DRINK	TURBO & JEM-BE	MARCH	2020
81	2606	GIGI'S BAKERY	DAR ES SALAAM	BREAD	GIGI'S	APRIL	2020
82	2607	MATSAM HOLDING CO.LTD	KILIMANJARO		SAMBA	MARCH	2020
83	2608	TANZANIA CIGARETTE PUBLIC LIMITED COMPANY	DAR ES SALAAM	TOBACCO	GOSSO	MARCH	2020
84	2609	AK CONFECTIONERY CO.LTD	IRINGA	BREAD (WHITE AND BROWN)	A ONE	MARCH	2020
85	2610	NEW JAMBO BAKERY	MOROGORO	WHITE BREAD	NEW JAMBO BAKERY	MARCH	2020
86	2611	PRIMECARE DISTILLERIES LTD	KIBAHA	BRANDY	SPLENDOR	MARCH	2020
87	2612	INHEMETER (T) LTD	DAR ES SALAAM	ELECTRICITY METERING EQUIPMENT PARTICULAR REQUIREMENT	SMART ENERGY METER	MARCH	2020
88	2613	HEPING RECYCLING CO. LTD	DAR ES SALAAM	HDPE PIPES	ITIKO	MARCH	2020
89	2614	GALAXY FOODS AND BEVERAGES LTD	DAR ES SALAAM	YOGHURT	SWEET PASSION, BLACK CHERRY, PEACH,MIXED BERRY, VANILLA, STRAWBERRY, NATURAL YOGHURT & EXOTIC YOGHURT	MARCH	2020
90	2615	MOTHER NATURE PURE VIRGIN COCONUT OIL	TANGA	PURE VIRGIN COCONUT OIL	MOTHER NATURE	MARCH	2020
91	2616	SIMBA PIPE INDUSTRIES LTD	DAR ES SALAAM	HDPE PIPES		MARCH	2020
92	2617	SIMBA PIPE INDUSTRIES LTD	DAR ES SALAAM	U PVC FOR COLD POTABLE WATER		MARCH	2020
93	2618	SIMBA PIPE INDUSTRIES LTD	DAR ES SALAAM	PE PIPES FOR SUPPLY GASEOUS FUEL		MARCH	2020
94	2619	SIMBA PIPE INDUSTRIES LTD	DAR ES SALAAM			MARCH	2020
95	2620	OUKAI INVESTMENT COMPANY LTD	DAR ES SALAAM	PVC CEILING BOARD	OK	MARCH	2020
96	2621	S. SPITZ GmbH, ATTANANG PUCHHEIM	AUSTRIA	ENERGY DRINK	POWER HORSE	MARCH	2020
97	2622	LEJO BUSINESS ENTERPRISES	DAR ES SALAAM	LIQUID HAND WASH	LEJO	MARCH	2020

98	2623	LEJO BUSINESS ENTERPRISES	DAR ES SALAAM	SHAMPOO	JOY	MARCH	2020
99	2624	LEJO BUSINESS ENTERPRISES	DAR ES SALAAM	MULTIPURPOSE DETERGENT LIQUID SOAP	TAKASA	MARCH	2020
100	2625	UNOPLAST(T) LTD- MWANZA PLANT	MWANZA	DOMESTIC MAT-TRESS	SUPER BAN-CO, ARUSHA DELUXE	MARCH	2020
101	2626	KISIMA HOLDING LIMITED	MANYARA	BOTTLED DRINKING WATER	JIBU	MARCH	2020
102	2627	JUNCTION BEVERAGES	MOSHI	VODKA	FIGHTER	MARCH	2020
103	2628	STERLING SURFACTANTS LTD	ARUSHA	INSTANT HAND SAN-ITIZER	STERLING	MARCH	2020
104	2629	MR. DISCOUNT HYPER & SUPERMARKET LTD	DAR ES SALAAM	WHITE & BROWN BREAD	MR.DISCOUNT	MARCH	2020
105	2630	MR. DISCOUNT HYPER & SUPER-MARKET LTD	DAR ES SALAAM	CAKE	QUEEN	MARCH	2020
106	2631	WARDIYA FOOD PRODUCTS	DAR ES SALAAM	ROASTED GROUNDNUTS	WARDIYA	MARCH	2020
107	2632	NATURE FRESH PREMIUM PROD-UCTS COMPANY LTD	TANGA	BOTTLED DRINKING WATER	KARIBU	MARCH	2020
108	2633	G2L COMPANY LIMITED	NJOMBE	MAIZE FLOUR	SEMBE& DONA	MARCH	2020
109	2634	G2L COMPANY LIMITED	NJOMBE	MILLED RICE		MARCH	2020
110	2635	G2L COMPANY LIMITED	NJOMBE	BEANS		MARCH	2020
111	2636	HWIMU SUPER RICE	TABORA	MILLED RICE	HWIMU	MARCH	2020
112	2637	SAO HILL FOREST PLANTATIONS	IRINGA	HONEY	SAO HILL	MARCH	2020
113	2638	AGRO AF LTD	HAI	MAIZE FLOUR	AGRO AF	MARCH	2020
114	2639	OMEGA FISH LTD	MWANZA	FROZEN FISH FIL-LETS		MARCH	2020
115	2640	JABARI INVEST-MENT	MTWARA	NATURAL CASHEW KERNELS	JABARI	APRIL	2020
116	2641	JABARI INVEST-MENT	MTWARA	ROASTED CASHEW KERNELS-BAOBAB & LIGHTLY SALTED	JABARI	APRIL	2020
117	2642	POLYFOAM LTD-KISONGO PLANT	ARUSHA	POLYPROPYLENE WOVEN BAGS & FABRIC		MARCH	2020
118	2643	OCHOLE SER-VICES STATION CO. LTD	MARA	BOTTLED DRINKING WATER	OCHOLE	MARCH	2020

119	2644	AKYOO MILLS	DODOMA	MAIZE FLOUR	SANGITO SUPER SEMBE	MARCH	2020
120	2645	21ST CENTURY FOOD & PACKAGING- KURASINI PLANT	DAR ES SALAAM	FORTIFIED BLENDED COMPOSITE FLOUR	MO SAFI	MARCH	2020
121	2646	MAMA ASILI PRODUCTS	IRINGA	ROSELLA BASED ALCOHOLIC BEVERAGE	SWEET AND DRY WINE-MAMA ASILI	MARCH	2020
122	2647	SHOSMA CO. LTD	DAR ES SALAAM	COMPOUNDED POULTRY FEED	BOILER GROWER-SHOSMA	APRIL	2020
123	2648	REST FOOD PRODUCTS	ARUSHA	MAIZE FLOUR	FAMILY CHOICE	APRIL	2020
124	2649	SAI ENERGY & LOGISTIC SERVICES	IRINGA	INSTANT HAND SANITIZER	COR-X	APRIL	2020
125	2650	G & CO CLEANING & SANITATION LTD	DAR ES SALAAM	INSTANT HAND SANITIZER	PERFECT TOUCH	APRIL	2020
126	2651	TANZANIA BREWERIES LTD-DAR	DAR ES SALAAM	PURE SPARKLING DRINKING WATER	SAFARI	APRIL	2020
127	2652	APPLE CRAFT LTD-MAKAMBAKO	NJOMBE	TREATED WOODEN POLE	MEDIUM	APRIL	2020
128	2653	TANGA PHARMACEUTICAL & PLASTICS LTD	DAR ES SALAAM	INSTANT HAND SANITIZER	FAMILY CARE	APRIL	2020
129	2654	WARDIYA FOOD PRODUCTS	DAR ES SALAAM	DRY ROASTED CASHEW KERNELS	WARDIYA	APRIL	2020
130	2655	REAL WORLD LIMITED	RUWUMA	MAIZE FLOUR - DONA & SEMBE	AMPLE PREMIUM	APRIL	2020
131	2656	FRANCISCAN BAKERY	MANYARA	BISCUIT		APRIL	2020
132	2657	FRANCISCAN BAKERY	MANYARA	WHITE BREAD		MAY	2020
133	2658	TRIDEA COSMETICS LTD	DAR ES SALAAM	COCONUT OIL	SOFTY	APRIL	2020
134	2659	TUKUYU SPRING WATER LTD	RUNGWE	PACKAGED DRINKING WATER	TUKUYU SPRING	APRIL	2020
135	2660	KIKUNDI CHA KIJAMII KIBOKO	DODOMA	PEANUT BUTTER	KARASALI	APRIL	2020
136	2661	NYAKATO STEEL MILLS LTD	MWANZA	HOUSEHOLD COOKING UTENSIL-SUFURIA	NYAKATO	APRIL	2020
137	2662	TWILUMBA PRODUCTS	DAR ES SALAAM	SKIN CARE OIL	SESAME OIL	APRIL	2020
138	2663	TWILUMBA PRODUCTS	DAR ES SALAAM	PETROLEUM JELLY	SESAME JELLY OIL	APRIL	2020

139	2664	KISHAN INDUSTRIES LTD	DAR ES SALAAM	BALL POINT PEN & REFILL	KIL RUNWAY, ONE WAY, SMOOTHLINE, TWO LINES, SIX FLOWERS, BOSS, WINNER JUMBO HIGH SPEED	APRIL	2020
140	2665	INSIGNIA LTD	DAR ES SALAAM	ALKALI RESISTING PRIMER & LATEX PRIMER PAINTS	COLAR & GALAXY	APRIL	2020
141	2666	SODANA BAKERY	MBEYA	WHITE BREAD	SODANA BAKERY	APRIL	2020
142	2667	NILE PERCH FISHERIES	MWANZA	FROZEN FISH FILLETS	NILE PERCH	APRIL	2020
143	2668	EAST COAST OILS AND FAT LTD	DAR ES SALAAM	INSTANT HAND SANITIZER	MO	APRIL	2020
144	2669	KIHESA INVESTMENT	RUKWA	ROSELLA ALCOHOLIC DRINK	KIHESA WINE	APRIL	2020
145	2670	TRY COSMETICS (T) LTD	DAR ES SALAAM	PETROLEUM JELLY	MAMI'S	APRIL	2020
146	2671	FARIDA ABDALLAH ABDUL ENTERPRISES	TABORA	BEE HONEY	TABORA PURE HONEY	APRIL	2020
147	2672	KARIM BAKERY	IRINGA	WHITE BREAD	SUPER QUALITY	APRIL	2020
148	2673	ELVEN AGRI CO.LTD	PWANI	DRIED TROPICAL FRUIT	WILD PLAIN FOODS(DRIED PAPAYA, DRIED PINEAPPLE & DRIED MANGO)	APRIL	2020
149	2674	ELVEN AGRI CO.LTD	BAGAM-OYO	DRIED MANGO	WILD PLAIN FOODS	JUNE	2020
150	2675	ELVEN AGRI CO.LTD	PWANI	MORINGA POWDER	MORINGA POWDER	APRIL	2020
151	2676	CHEMI & COTEX INDUSTRIES LTD	DAR ES SALAAM	INSTANT HAND SANITIZER	BODY GUARD	APRIL	2020
152	2677	DRAFCO GROUP LTD	DAR ES SALAAM	SANITARY TOWEL	LILI MATERNITY & LILI LADY NAPKING	APRIL	2020
153	2678	TARMAL INDUSTRIES LTD	DAR ES SALAAM	INSTANT HAND SANITIZER	JET	APRIL	2020
154	2679	BONICATE GROUP	DAR ES SALAAM	MILLED MAIZE FLOUR	BONICATE	APRIL	2020
155	2680	GRANT INVESTMENT	DAR ES SALAAM	BANANA ALCOHOLIC BEVERAGE	GRANT	APRIL	2020
156	2681	MAMUJEE PRODUCTS LTD	TANGA	HAND DISHWASHING DETERGENT	KLASH ALOE VERA	APRIL	2020

157	2683	FAMA WINERY COMPANY	ARUSHA	BANANA ALCOHOLIC DRINK	FAMA PREMIUM	APRIL	2020
158	2684	WASIM TRANS GARAGE	ARUSHA	MODIFIED VEHICLE	SAFARI	MAY	2020
159	2685	GFPN INVESTMENT	RUVUMA	WRITING CHALKS	SUPER COLOUR	MAY	2020
160	2686	SIMBA GOLD-NDETARAMO INVESTMENT	ARUSHA	BANANA ALCOHOLIC DRINK	SIMBA GOLD	MAY	2020
161	2687	ADMIRE WOMEN GROUP	KILIMANJARO	PACKAGED DRINKING WATER	JIBU	MAY	2020
162	2688	MAFINGA MILK GROUP	IRINGA	CULTURED MILK	MUFINDI MILK	MAY	2020
163	2689	TIAN TANG GROUP TANZANIA LTD	DAR ES SALAAM	PLASTIC BASIN	SANWA	MAY	2020
164	2690	TIAN TANG GROUP TANZANIA LTD	DAR ES SALAAM	HOUSEHOLD PLASTIC WARE	CONTAINER	MAY	2020
165	2691	FANTASTIC PRODUCTS	ARUSHA	WHITE BREAD AND SCONES	FANTASTIC	MAY	2020
166	2692	FANTASTIC PRODUCTS	ARUSHA	WHITE BREAD AND SCONES	FANTASTIC	MAY	2020
167	2693	INSIGNIA LIMITED	KILIMANJARO	MATT EMULSION PAINTS	GALAXY AND CORAL PAINT	MAY	2020
168	2694	INSIGNIA LIMITED	KILIMANJARO	VINLY SILK EMULSION PAINT	GALAXY AND CORAL PAINT	MAY	2020
169	2695	INSIGNIA LIMITED	KILIMANJARO	PVA ROOF PAINT	GALAXY AND CORAL PAINT	MAY	2020
170	2696	INSIGNIA LIMITED	KILIMANJARO	PRIMER PAINT	GALAXY AND CORAL PAINT	MAY	2020
171	2697	DEW DROP DRINKS COMPANY LIMITED	DAR ES SALAAM	BOTTLED DRINKING WATER	DEW DROP	MAY	2020
172	2698	MBEYA FOOD SUPPLY	NJOMBE	UNFORTIFIED MAIZE FLOUR	MBEYA SUPER SEMBE	MAY	2020
173	2699	MBEYA FOOD SUPPLY	NJOMBE	FORTIFIED MAIZE FLOUR	MBEYA SEMBE	MAY	2020
174	2700	JIBU SAKINA	ARUSHA	PACKAGED DRINKING WATER	JIBU	MAY	2020
175	2701	CATHOLIC MISSION OF PUMA	SINGIDA	PACKAGED DRINKING WATER	MALKIA WA ULIMWENGU	MAY	2020
176	2702	ISTANBLUE INDUSTRIES LTD	PWANI	LIQUID HANDWASHING SOAP	LANA	MAY	2020
177	2703	ISTABLU INDUSTRIES LTD	PWANI	HAND DISHWASHING AND LIGHT DUTY DETERGENT	LANA	MAY	2020
178	2704	KUSI LIMITED	ARUSHA	HOT CHILLI SAUCE	MAMA MOTO	MAY	2020

179	2705	CHAI BORA LIMITED-DABAGA PLANT	IRINGA	WHITE VINEGAR	DABAGA'S	MAY	2020
180	2706	ELVEN AGRI CO.LTD	PWANI	CHILI POWDER AND WHOLE	AFRICAN BIRDS EYE CHILI-DHOW	MAY	2020
181	2707	ELVEN AGRI CO.LTD	PWANI	TURMERIC POWDER	DHOW NATURE FOODS	MAY	2020
182	2708	ELVEN AGRI CO.LTD	PWANI	DRIED BANANA	DHOW NATURE FOODS	MAY	2020
183	2709	ELVEN AGRI CO.LTD	PWANI	GROUND BLACK PEPPER	DHOW NATURE FOODS	MAY	2020
184	2710	SUPER SEKI INVESTMENT	IRINGA	UNFORTIFIED MAIZE FLOUR	SEKI	MAY	2020
185	2711	SUPER SEKI INVESTMENT	IRINGA	FORTIFIED MAIZE FLOUR	SEKI SEMBE BORA	MAY	2020
186	2712	IRINGA FOODS AND BEVERAGES LIMITED-KIBWABWA	IRINGA	CANDIES	Ivory coffee, Ivory fruit-orange, Ivory butter milk, Ivory Mint	MAY	2020
187	2713	HEPI STATIONARY, GENERAL SUPPLIES AND INSURANCE AGENCY	MBEYA	FORTIFIED MAIZE FLOUR	IMEZU SEMBE	MAY	2020
188	2714	TOTAL TANZANIA LTD	DAR ES SALAAM	AUTOMATIC TRANSMISSION OIL	TOTAL FLUIDMATIC IID	MAY	2020
189	2715	AGROP GROUP	KILIMANJARO	BANANA ALCOHOLIC BEVERAGE	NG'ADA	MAY	2020
190	2716	MAJI CARE ENTERPRISES	DAR ES SALAAM	PACKAGED DRINKING WATER	JIBU	MAY	2020
191	2717	BALAJI THERMOWARE (2009) LTD	DAR ES SALAAM	BALL POINT PENS	BALAJI	MAY	2020
192	2718	SHERRIF DEWJI & SONS	ARUSHA	WHITE & BROWN RICE	MAGUGU RICE	JUNE	2020
193	2719	MAXI PRO COMPANY LTD	DAR ES SALAAM	DISH WASHING LIQUID SOAP	ASTRA	MAY	2020
194	2720	FANA SOAP PROCESSORS	MUSOMA	LIQUID SOAP	FANA	MAY	2020
195	2721	AMSONS INDUSTRIES - CAMEL FLOUR MILLS	DAR ES SALAAM	FORTIFIED WHEAT FLOUR	HBF & BISCUIT (CAMEL FLOUR)	MAY	2020
196	2722	SHRIKE GLOBAL CO.LTD	MWANZA	TOMATO SAUCE	PRINCE	MAY	2020

197	2723	TANZANIA CLOU ELECTRONIC CO.LTD	DAR ES SALAAM	SMART ENERGY METERS	SINGLE PHASE & THREE PHASE (CLOU)	MAY	2020
198	2724	VINUM ROYALS ENTERPRISES	KEMONDO	BANANA FRUIT WINE	ROYALS	MAY	2020
199	2725	EPO-CONSUMER PRODUCTS LTD	DAR ES SALAAM	INSTANT HAND SANITIZER	SMILE	MAY	2020
200	2726	NYABICHU COMPANY LIMITED	SHINYANGA	RICE GRADE I & II	KINYONI SUPER & NDEGE	MAY	2020
201	2727	NATTA FRESH BAKERY	MWANZA	BROWN BREAD	NATTA	MAY	2020
202	2728	SUNPURE COMPANY LTD	DAR ES SALAAM	PACKED DRINKING WATER	JIBU	MAY	2020
203	2729	WARDIYA FOOD PRODUCTS	DAR ES SALAAM	PEANIT BUTTER	WARDIYA	MAY	2020
204	2730	TOPLIFE ENTERPRISES	KILIMANJARO	BANANA ALCOHOLIC BEVERAGE	TOP LIFE	MAY	2020
205	2731	KIPIPA MILLERS LIMITED	MWANZA	MAIZE FLOUR	UNGA MWEUPE WA MAHINDI	MAY	2020
206	2732	KIPIPA MILLERS LIMITED	MWANZA	COMPOSITE FLOUR	SUPER FINE	MAY	2020
207	2733	BANNET (T) COMPANY LIMITED	MTWARA	PACKAGED DRINKING WATER	ABBEY SPRINGS	MAY	2020
208	2734	POWERS BODY BUTTER	RUVUMA	LIQUID HAND WASH	POWERS	JUNE	2020
209	2735	WOMEN CHOICE INDUSTRIES	TANGA	RE-USABLE SANITARY TOWEL	SALAMA PADS	JUNE	2020
210	2736	RHANA LIME COMPANY LIMITED	ARUSHA	QUICK LIME & HIGH CALCIUM HYDRATED LIME	RHANA	JUNE	2020
211	2737	HLUCKY INVESTMENT CO.LIMITED	KARAGWE	FRUIT WINE	KOMBUCHA	JUNE	2020
212	2738	SEREN SUPER INVESTMENT	KILIMANJARO	BANANA ALCOHOLIC DRINK	SEREN	JUNE	2020
213	2739	ALFA CONFECTIONERIES (T) LTD	DAR ES SALAAM	HARD BOILED SWEETS	CHERRY LOLLYPOP - JUMBO	JUNE	2020
214	2740	RAHA BEVERAGES CO.LIMITED	ARUSHA	BANANA ALCOHOLIC DRINK	RAHA POA	JUNE	2020
215	2741	OLIVADO TZ LIMITED	NJOMBE	AVOCADO EDIBLE OIL	OLIVADO	JUNE	2020
216	2742	OLIVADO TZ LIMITED	NJOMBE	AVOCADO OIL FOR COSMETIC INDUSTRY	OLIVADO	JUNE	2020
217	2743	AQ TRADERS	DAR ES SALAAM	CASHEW NUT KERNELS	PLAIN	JUNE	2020

218	2744	MWELA DRINKING WATER	DAR ES SALAAM	BOTTLED DRINKING WATER	MWELA	JUNE	2020
219	2745	AFRILIQ DISTILLERS	MWANZA	BANANA WINE	BANJUKA	JUNE	2020
220	2746	JIBU USA RIVER	ARUSHA	PACKAGED DRINKING WATER	JIBU	JUNE	2020
221	2747	JIBU MOROMBO	ARUSHA	PACKAGED DRINKING WATER	JIBU	JUNE	2020
223	2748	ONE DAY YES HARDWARE & GENERAL SUPPLIES	MTWARA	BANANA ALCOHOLIC BEVERAGE	YETU	JUNE	2020
224	2749	AMOGHA INVESTMENT LIMITED	MBEYA	PACKED DRINKING WATER	AMOGHA LIFE NATURAL	JUNE	2020
225	2750	TINYA COMPANY LIMITED	NJOMBE	WHITE BREAD	TINYA	JUNE	2020
226	2751	TRIDEA COSMETICS LTD	DAR ES SALAAM	INSTANT HAND SANITIZER	SOFTY	JUNE	2020
227	2752	BANDE COMPANY LIMITED	DAR ES SALAAM	BOTTLED DRINKING WATER	JIBU	JUNE	2020
228	2753	RUNGWE AVOCADO COMPANY LIMITED	MBEYA	FRESH AVOCADO FRUITS	KIPUNJI AVOCADOS	JUNE	2020
229	2754	KEKO PHARMACEUTICAL INDUSTRIES (1997) LTD	DAR ES SALAAM	INSTANT HAND SANITIZER	KEKO	JUNE	2020
230	2755	ECO SPRINGS LIMITED	ARUSHA	BOTTLED DRINKING WATER	SERENGETI SPRINGS	JUNE	2020
231	2756	MAMUJEE PRODUCTS LTD	TANGA	HAND WASH	KLASH ALOE VERA AND KLASH LEMON	JUNE	2020
232	2757	MSOUTH COMPANY LTD	DAR ES SALAAM	MILLED MAIZE FLOUR	MSOUTH SEMBE	JUNE	2020
233	2758	GENIA ENTERPRISES & GENERAL SUPPLY	RUVUMA	MAIZE FLOUR	GENIA SUPER	JUNE	2020
234	2759	MORAF INVESTMENT	RUVUMA	WRITING CHALKS	MBINGA QUALITY	JUNE	2020
235	2760	MAGANGA RICE MILLING	MBEYA	MILLED RICE	MAGANGA RICE	JUNE	2020
236	2761	MW RICE MILLERS	MOROGORO	MILLED RICE	KORIE SUPER FRAGRANT RICE, KORIE SUPREME FRAGRANT RICE & KORIE PREMIUM FRAGRANT RICE	JUNE	2020
237	2762	AG JADOS CO. LTD	ARUSHA	BOTTLED DRINKING WATER	JIBU	JUNE	2020

S/N	C/N	NAME OF MANUFACTURER	LOCATION	PRODUCT	BRAND	MONTH	
238	420	WAADILIFU COMPANY LIMITED	DAR ES SALAAM	PP NON-WOVEN FABRICS		JANUARY	2020
239	421	THE FUSTAR FRIEND INVESTMENT	PWANI	LED BULB		JANUARY	2020
240	422	CMG PYRAMID INDUSTRIES LIMITED	MWANZA	PP NON-WOVEN BAGS		JANUARY	2020
241	423	YODO UNIQUE INVESTMENT CO. LTD	MKURANGA	PP NON-WOVEN FABRICS		JANUARY	2020
242	424	YODO UNIQUE INVESTMENT CO. LTD	MKURANGA	PP NON-WOVEN BAGS	W-CUT	JANUARY	2020
243	426	AN BANG INTERNATIONAL INVESTMENT	DAR ES SALAAM	LED BULB	KILIMANJARO	JANUARY	2020
244	427	NDABHIYEHO FAMILY COMPANY LIMITED	DAR ES SALAAM	POLYPROPYLENE NON-WOVEN BAGS-W-CUT	ORG	SME	2020
245	428	KOMATI INVESTMENT AND FINANCE COMPANY	KIBAHA	COCONUT OIL	QADRI'S	FEBRUARY	2020
246	429	SANLITA PRODUCTS LTD	ARUSHA	DOG MEAL	K9 NUTRITION	FEBRUARY	2020
247	430	KILIMANJARO BIOCHEM LIMITED	KILIMANJARO	LIQUID CARBONDIOXIDE		FEBRUARY	2020
248	431	EUROPLAST LIMITED	PWANI	BABY WET WIPES	LANA	FEBRUARY	2020
249	432	A TO Z TEXTILE MILLS LTD	ARUSHA	PP TWINE		FEBRUARY	2020
250	433	MUFAMAL STORES LTD	DAR ES SALAAM	PP NON WOVEN		FEBRUARY	2020
251	434	MAXI PRO COMPANY LTD	DAR ES SALAAM	GLASS CLEANER	ASTRA	FEBRUARY	2020
252	435	5S GROUP LIMITED	DAR ES SALAAM	PP NON WOVEN	D CUT & BOX	FEBRUARY	2020
253	436	NEO PARTIDA INVESTMENT LTD	MWANZA	NON WOVEN BAGS		FEBRUARY	2020
254	437	AL SAIF MOTORS	ARUSHA	PP NON WOVEN CARRIER BAGS		MARCH	2020
255	438	KANSAI PLASCON TANZANIA LTD	DAR ES SALAAM	EMULSION ROOF PAINT	PVA ROOF PAINT (PLASCON)	MARCH	2020

256	439	MZ PACKAGING	MORO-GORO	TBS EXEMPTED PLASTIC PACKAGING	FOOD PACKAGING, TREE SEEDLING PACKAGING, MEAT, FISH & CHICKEN PACKAGING		2020
257	440	MEETU AGRO	KILIMANJARO	PP NON WOVEN BAGS		MARCH	2020
258	441	TANZANIA CIGARATTE PUBLIC LTD COMPANY	DAR ES SALAAM	TOBACCO & TOBACCO PRODUCTS	GOSSO IN ROLL YOUR OWN	MARCH	2020
259	442	A & V GROUP LIMITED	ARUSHA	POWDERED FLAVOURED DRINK	(COLA, ORANGE & MANGO)/ FASTA JUS	MARCH	2020
260	443	BALAJI THER-MOWARE (2009) LTD	DAR ES SALAAM	HOT POTS	BALAJI	MARCH	2020
261	444	ALAF LIMITED	DAR ES SALAAM	WELD MESH		APRIL	2020
262	445	SHAHI ENGINEERING AND CONSTRUCTION CO. LTD	DAR ES SALAAM	EXEMPTED PLASTIC BACKAGES	PLASTIC SHEET FOR SANITARY USE, FOR AG-RICULTURAL USE, CON-STRUCTION USE, INDUS-TRIAL PACK-AGE	APRIL	2020
263	446	TIMASU PRODUCTS COMPANY	DAR ES SALAAM	VEGETABLE OIL		APRIL	2020
264	447	TANGA PHAR-MACEUTICAL & PLACTIC LTD	TANGA	GARBAGE PLASTIC BAGS		APRIL	2020
265	448	POLYFOAM LTD	ARUSHA	PP WOVEN HER-METIC BAGS	MFUKO SAFI	APRIL	2020
266	449	LIANGFENDA INTERNATIONAL INVESTMENT CO. LTD	PWANI	SANDALS (MEN & WOMEN)		MAY	2020
267	451	ISTABLUER INDUSTRIES LTD	PWANI	BABY WET WIPES	LANA	MAY	2020
268	452	VIOLET ELIA NYONGOTA	DODOMA	ORGANIC FERTILIZER	VIOLETH FARM	MAY	2020
269	449	LIANGFENDA INTERNATIONAL INVESTMENT CO. LTD	PWANI	PVC SANDALS	PVC SANDALS	MAY	2020
270	447	TANGA PHARMA-CEUTICAL AND PLASTIC LTD	TANGA	GARBAGE PLASTIC BAGS		APRIL	2020

271	448	POLYFOAM LTD	ARUSHA	PP WOVEN HERMETIC BAGS	MFUKO SAFI	APRIL	2020
272	449	LIANGFENDA INTERNATIONAL INVESTMENT CO. LTD	DAR ES SALAAM	PVC SANDALS		MAY	2020
273	450	MOGAS TANZANIA LTD-TANGA PLANT	TANGA	INDUSTRIAL GEAR OIL	POWER TRANS SP 460, POWER TRANS SP 220 & POWER TRANS SP 320	MAY	2020
274	451	ISTANBLUE IN- DUSTRIES LTD	PWANI	BABY WET WIPES	LANA	MAY	2020
275	452	VIOLET ELIA NYONGOTA	DODOMA	ORGANIC FERTILIZERS	VIOLETH FARM	MAY	2020
276	453	CRISSELLY EN- TERPRISES	DAR ES SALAAM	PP NON WOVEN CARRIER BAGS		MAY	2020
277	454	A TO Z TEXTILE MILLS LTD	ARUSHA	PP/PE RE- GRANULATE POLYPLASS		MAY	2020
278	455	HEPING RECY- CLING	DAR ES SALAAM	PPH PIPES	ITIKO	MAY	2020
279	456	EN XIN COMPANY LTD	IRINGA	PLYWOOD AND MARINE BOARD		MAY	2020
280	457	YEHEHE INVESTMENT LIMITED	DAR ES SALAAM	PLASTIC GARBAGE BAGS		MAY	2020
281	458	YEHEHE INVESTMENT LIMITED	DAR ES SALAAM	EXEMPTED PLASTIC PACKAGING BAGS (FOR CHICKEN)	PLASTIC PACKAGING BAGS (FOR CHICKEN)	MAY	2020
282	459	AFRIWELD INDUSTRIES LTD	DAR ES SALAAM	CHAIN LINK FENCE WIRE		JUNE	2020
283	460	MCHAU ENGINEERING WORKS AND WORKSHOP	ARUSHA	AGRICULTURAL TRACTOR TRAILER & BOWSER		JUNE	2020
284	461	TIGER PLASTIC INDUSTRY	PWANI	PLASTIC PIPES	PP-R & PP-H	JUNE	2020
285	462	NAP INTERNATIONAL	DAR ES SALAAM	PP NON WOVEN BAGS		JUNE	2020
286	463	AMIMZA LTD	DAR ES SALAAM	COFFEE PREMIX	3 IN 1	JUNE	2020
287	464	L&N PRIME ENTERPRISES	MBEYA	NON WOVEN BAGS (70GSM)		JUNE	2020
288	466	WOISO ORIGINAL PRODUCTS	DAR ES SALAAM	CAMPING TENT		JUNE	2020
289	467	SALISS COMPANY LTD	DAR ES SALAAM	VEGETABLE OIL- VIRGIN COCONUT OIL	SALIS	JUNE	2020

290	468	MOROGORO PLASTICS LIMITED	MORO-GORO	EXEMPTED PLASTIC INDUSTRIAL BAG	AGRICULTURAL TUBING	JUNE	2020
291	469	MTETIMO COMPANY LTD	DAR ES SALAAM	GARBAGE PLASTIC BAGS		JUNE	2020
292	470	MTETIMO COMPANY LTD	DAR ES SALAAM	EXEMPTED PLASTIC INDUSTRIAL BAG	PLASTIC TUBING FOR PACKAGING FOOD	JUNE	2020
293	471	SUNSHINE PLASTIC CO.LTD	DAR ES SALAAM	JOINING MATERIAL FOR GYPSUM BOARDS	GYPSUM PLASTER (SSP)	JUNE	2020
294	473	MOGAS TANZANIA LTD-TANGA PLANT	TANGA	2T MOTOR OIL	MOGAS	JUNE	2020
295	474	JACOB MZIRAI NGUSARU	ARUSHA	AGRICULTURAL TRACTOR TRAILER & CHASSIS NO. NJM 2019A3		JUNE	2020
296		NUMBER OF LICENCES	236				
297		NUMBER OF CERTIFICATES	58				
298		TOTAL	294				

SAMPLES TESTED AND CALIBRATIONS MADE

During the period under review the following are the samples tested in the various TBS laboratories.

	Building and Construction	Packaging	Mechanical	Chemistry	Food	Electrical	Textile
January	42	142	412	254	478	313	404
February	45	173	417	262	536	325	310
March	41	192	478	384	609	300	379
April	64	150	363	335	544	251	317
May	83	87	233	423	562	217	261
June	196	60	361	328	584	174	370
TOTAL	471	804	2264	1986	3313	1580	2041

Raising quality standards with industrial revolution

By Zena Chijoriga



Technological progress has now spawned an era of digital transformation. The transformation was brought about through digitisation as analogue information was converted to digital data. The increase in digital data has therefore enabled digitalisation, wherein technology is utilised to shape businesses and

industries. This phenomenon is now having a profound impact on the manufacturing sector and is labeled as the Industry, widely known as the Industrial Revolution.

The Industry is about bringing optimisation, efficiency and quality to the processes. Quality control and management are one of the primary focus areas of Industry. Quality dictates the profitability of any product and even more emphatically in the current global scenario.

Today, people are increasingly becoming quality conscious and they don't mind paying more for better quality and sustainable goods. This is particularly a pain point for industries because products are getting more and more complicated, especially in terms of the manufacturing aspect.

Besides, consumers expect agile and seamless purchase experience and delivery, as a result, manufacturers are facing the pressure to cut short the lead times in production in order to reduce time-to-market for products.

In a survey of executives, it was found that they ranked time-to-market as the greatest challenge in quality management followed by product complexity, globalisation and regulatory changes. Thus, quality improvement and monitoring are identified to be among the top industry use cases.

Quality has henceforth emerged as a term to signify the emphasis placed on quality in the era of Industry. It does not refer to a technology; rather, Quality makes reference to the improvement in the quality standards of production processes and products through Industry. This is done by improving the existing traditional quality management process, not by replacing them. The strategy has incentivised startups to provide solutions that address the quality demand. Such solutions are easy to implement and make it immensely relevant

for adopters of technologies and strategies. Quality is, therefore, about giving manufacturers a competitive edge and presenting them with unique opportunities and capabilities to drive innovation and revenue growth.

Quality enables leaders to achieve quality objectives such as ensuring compliance, improving customer experience, improving product design and value and reducing operational risks. However, many are unaware of the Quality use cases, and to strategise quality initiatives there needs to be clarity on what it entails. For example there is a research that identified a case on a beer brewing industry that implemented Artificial Intelligence (AI) and Machine Learning (ML) to eliminate batching problem due to quality issues. The brewmasters employed ML/AI model to alter the recipe and optimise batches to fine tune various factors that come into play while brewing beer.

This way, they removed the quality issues and were able to recover the lost production capacity quickly.

Key reasons to consider Quality includes;

- **Profitability**

When ensuring quality becomes the focal point of a manufacturing process or of a product, it ultimately yields more profit. Quality leads to more satisfied customers, resulting in brand differentiation that leads to customer retention and greater profits. In addition, wastes can be reduced with an effective quality process in place. Currently, many companies rely on traditional quality management processes and technology which causes a financial drain on them.

- **Improved regulatory compliance**

Compliance is an important aspect of quality management. It includes adhering to various requirements. Quality ensures compliance of products, processes and services by automating the procedure. With the help of analytics, alerts regarding potential regulatory compliance breaches can be issued automatically. Transitioning to Quality is easier for companies since most companies already have pre-configured compliance requirements and QMS solutions in place.

In its business sense, "compliance" refers to a company meeting its legal obligations, often to protect the health, safety and welfare of others. Simple examples of compliance include obtaining a business license in your town and paying your taxes.

The importance of compliance is more evident as issues become more complex when your business grows. You will have expanded responsibilities regarding

your workers, covering hiring, firing, discrimination, harassment, safety, wages, payroll and benefits.

The way you make and sell your product and service might fall under the auspices of a government agency, such as a restaurant needing to meet health department guidelines.

- **Adoption of quality management systems**

QMS provides a central platform to manage activities pertaining to quality, such as ensuring compliance, analytics, collaboration etc. Currently, it is reported that only 21% of the industries have adopted QMS, as their core processes are yet to be streamlined and integrated. Therefore, Quality provides an avenue for harmonising processes to improve efficiency and effectiveness of operations.

How to achieve quality

Research has identified 11 major components of Quality which companies can take as a guideline to adopt quality standards. These are; data, analytics, connectivity, collaboration, management systems, app development, scalability, compliance, culture, leadership and competency.

Companies should appropriately assess where they stand on each of these components and improve upon the areas in which they lag behind. In addition, enterprises that have already laid a quality management ecosystem can improve their quality standards by the innovative adoption of technologies for methods, such as remote monitoring and maintenance, Predictive Analytics etc.

While Predictive Analytics enables to identify patterns in the data and suggest corrective actions to ensure performance quality, the capability can be extended to provide continuous remote monitoring to achieve the same.

The bottom line

Quality management has a significant role in building the core competency of any enterprise. Quality is, therefore, a strategy to improve the traditional quality management and is a means to bring a revolutionary change to business operations.

By reducing costs, optimising processes and thereby increasing efficiency, Quality enables enterprises to be the key drivers of innovation and provides them the opportunity to stand out in a heavily competitive market.

Quality compliance is often regarded as restrictive and costly, with little return on investment. But the truth is, compliance can improve and enhance customer satisfaction. The definition of quality is a product that meets and/or exceeds customers' expectations on a consistent basis. By moving beyond minimum quality levels, manufacturers can reach a higher level of process and product expertise that would not have been possible any other way. In other words, given the chance to exceed customers' expectations.

Many business rules and regulations can help you more than harm you. For example, rules regarding discrimination and harassment help you create a better working environment for your employees, which can lead to more worker productivity. Following safety and security rules helps prevent injuries, fires or building evacuations that hurt your profitability. In addition, learning the bare minimum you need to do to meet your legal obligations, review suggested business practices at the agencies dealing with Occupational Safety and Health and Employment Opportunity in order to learn more ways to strengthen and safeguard your company's operations.

The most obvious consequence of compliance is that it decreases your risk of fines, penalties, work stoppages, lawsuits or a shutdown of your business. When you don't meet some compliance requirements, such as posting an employment poster in the wrong area of your office.

When you meet your legal obligations, one of the benefits of compliance is the ability to tout these on your tools of communication (for example website) and in your marketing materials. For example, when you place job advertisements, include the fact that you are an equal opportunity employer. If you post your mission statement on your website, state that you do not discriminate based on race, sex, creed or sexual orientation.

When you recruit new workers, highlight your company's commitment to both physical safety and mental health by referencing key policies and benefits dedicated to proactive healthcare and wellbeing, such as extended maternity and paternity leave or free gym memberships. Taking steps to meet your legal obligations might seem like a management no-brainer, but only fulfilling your minimum requirements might result in missed opportunities. Understanding the reasons for the various rules, laws and regulations that govern your business will help you take advantage of any benefits they offer while ensuring you stay in compliance at all times.

Reliability, accuracy critical for medical labs

By Apha Nuhu

AS the world today experiences the devastating effects of the Covid-19 pandemic, reliability and accuracy have become more important for medical laboratories. Forceful risk management processes are now considered the best defence against errors and false results.

It is for this reason that conformity assessment, involving a set of processes that show your product, service or system meets the requirements of a standard, is used to demonstrate that a product, service or management system or body meets specified requirements.

Medical testing to conduct diagnostic testing for infectious diseases like Covid-19 is a key determinant in detecting the virus and mitigating its spread.

This is why the World Health Organisation (WHO) provides reference for confirmatory testing for Covid-19 virus (countries that have no testing capacity for Covid-19 are encouraged to send the first 5 positives and first 10 negative samples to WHO reference laboratories for confirmatory testing).

The reliability of laboratory results in medical settings is essential for correct diagnoses and positive clinical outcomes, so implementing measures to reduce the risk of errors is an essential part of the business.

Quality control and product testing, certification and inspection of medical equipment and supplies for personal protection has to be performed within a short period of time and at the highest accuracy to ensure that much-needed equipment meet the requirements.

Development of new medicines and vaccines, and related scientific testing has become more important in the fight against the virus, to make sure that newly developed medicine is effective, safe for use and does not have severe side effects and prevent the use of counterfeited pharmaceuticals and faulty test kits to the deadly virus to spread globally.

Mutual recognition of testing results could allow foreign suppliers to rely on local conformity assessment service providers in their quality assurance and compliance and therefore, respond to demands in emergent situation through quickly expanding their productive capacity.

The private sector is directly affected by the measures taken to control the outbreak of the virus, challenged to ensure business continuity.

At the same time, business plays an important role in

mitigating the negative effects of the pandemic, e.g. through the production of required medical equipment and protective gear, while ensuring the health and safety of their workers.

The elements outlined below relate to the role of enterprises in the context of quality infrastructure, they are selective and do not claim to be exhaustive.

Businesses worldwide have adjusted their manufacturing capabilities and production lines and are now producing products required in the fight against COVID-19 -- sanitizers, masks, protective gear and clothing, respiratory devices.

The application of quality and standards is in this context particularly important to ensure that the products meet the requirements and are fit-for-purpose.

Many businesses, particularly Small and Medium Enterprises in developing and developed countries alike, are struggling to continue their operations.

The application of business continuity plans and measures has been initiated, many of them relying on international standards and best practices.

This is particularly important in the context of global supply chains, which must ensure the continuous supply of essential goods, including food products.

Enterprises must protect their employees and prevent the spread of the disease at production facilities and offices.

It is therefore inevitable that enterprises pay special attention with regard to hygiene practices and occupational health and safety. Related standards and good practices become evidently important in the context of the current health crisis.

Each member country of the World Trade Organisation is free to determine what is necessary to protect its citizens and take the measures it deems appropriate.

WTO rules provide broad space for members to adopt trade measures deemed necessary to protect public health and public welfare (including import and export bans, quantitative restrictions on imports and exports, and non-automatic import licensing).

These measures should be applied in a manner that does not discriminate between WTO members and should not constitute a disguised restriction on international trade.

In addition, two WTO agreements address measures adopted by members to protect public health or

public safety, the agreement on the application of Sanitary and Phytosanitary Measures (SPS Agreement) and the Agreement on Technical Barriers to Trade (TBT Agreement).

The SPS Agreement establishes that members have the right to restrict trade by taking SPS measures necessary for the protection of human, animal or plant life or health.

These measures should only be applied to the extent necessary to achieve their objectives, be based on scientific principles and be supported by scientific evidence. In situations where relevant scientific evidence is insufficient, members may provisionally adopt SPS measures on the basis of available pertinent information.

The TBT Agreement aims to ensure that technical regulations, standards and conformity assessment procedures are non-discriminatory and do not create unnecessary obstacles to trade.

At the same time, it recognises WTO members' right to implement measures to achieve legitimate policy objectives, such as the protection of human health and safety.

Both the SPS and TBT agreements require WTO members to notify others of any new or changed requirements which affect trade, and to respond to requests for information on new or existing measures

Against the backdrop of promoting inclusive and sustainable industrial development, quality infrastructure plays a particularly important role in the fight against the global pandemic.

In fact, quality infrastructure preparedness to face highly contagious viral outbreaks, such as that sustained by SARS-CoV-2, become imperative for preventing the health system from being strained and laboratory quality services from

collapsing.

Quality infrastructures and standards are important in ensuring the availability of key medical devices, diagnostic tests and personal protective equipment.

It is now very evident that laboratory services by ensuring the quality and accuracy of laboratory-developed tests will increasingly provide an essential contribution to the diagnostic reasoning, managed care and therapeutic monitoring of the vast majority of human diseases, including the highly infectious COVID-19, which has now been defined as global health emergency by the WHO.

As a global crisis it is posing challenges to humanity that have never been experienced before: almost all communal activity globally (education, work life, sports, theatre, cinema, music concerts etc.) has ground to a halt. No country has been left untouched by the outbreak, and as such governments worldwide have been scrambling to adapt to and to mitigate the spread of the virus.

The Covid-19 pandemic has forced businesses to maintain and build relationships with consumers when their world has been upended.

Businesses are now facing tension between generating sales during a period of extreme economic hardship and respecting the threats to life and livelihood that have altered consumer priorities and preferences.

This tension is very real, particularly for newer ventures or smaller business that provides discretionary products and may not have the resources to survive long periods of severely diminished cash flow. The coronavirus has changed even large, more established companies literally overnight.

Standards can help mitigate effects of the pandemic

By Zena Chijoriga



Today, more than ever, the use of standards is very important to ensure that products and services meet the

requirements. Standards can help in mitigating the negative effects of the global pandemic in multiple ways.

Medical equipment and product standards for medical equipment (respiratory protective devices) and protective equipment (medical gloves, medical face masks, personal eye protection, etc.) are particularly important to ensure that the equipment meet the requirements and are reliable and that safety and medical personnel is sufficiently protected.

Acceptance of equivalence of standards among trade partners is important to mobilize medical resources globally and meet the soaring demands for medical equipment within a short time period.

Harmonization of standards for medical equipment at regional or global level could increase accessibility to essential medical products and improve the capacity of health authorities to respond rapidly to public health crisis like COVID-19. Medical laboratory standards are important to evaluate the safety and efficacy of diagnostic tests and to ensure that medical tests to detect SARS-COV-2 provide accurate and reliable results.

Testing laboratory standards ensure that product tests for medical equipment are performed

accordingly and provide reliable results. Providing quality, high-volume testing capabilities should allow us to respond effectively to the COVID-19 pandemic.

Business continuity and emergency management and standards for security and resilience, including business continuity management and emergency management have become evidently important throughout the past weeks. The further dissemination and application of such standards will be in the short-term but remain a priority in the medium and long-term.

Standards for risk management intend to serve as a guide for the design, implementation and maintenance of risk management. Management standards help to prepare for managing crisis situations better. Enterprises that have quality management systems in place are therefore better prepared to cope with the negative effects of the crisis.

Health and safety standards, such as ISO 45001, a standard for management systems of occupational health and safety which aim at improving employee safety, reducing workplace risks and creating better, safer working conditions are particularly important to prevent the spread of COVID-19 within organizations. Food safety and hygiene management is important, particularly as the emergence of SARS-COV-2 is said to be caused by a lack of it. Environmental and waste management standards will become important in managing the increased waste caused by the increased use of single-use protective equipment (protective clothes, single-use gloves, medical masks). It is particularly important for health facilities to adhere to guidelines on bio-medical waste generated from quarantine health facilities to stop spread of infection.

Access to standards, Standard Operating Procedures (SOP) and Good Manufacturing Practices (GMP), are sometimes restricted by the need to costly purchase them. In the case of a pandemic like COVID-19, access to such standards and practices needs to be immediate to ensure widest and fastest adoption of such practices.

Many standards organizations have made relevant

standards available free of charge to support the fight against COVID-19.

Metrology provides reliable measurements as a basis for scientific research, technical development and production. It is also needed to ensure that goods, services and processes comply with product quality, environmental, health and safety requirements, as well as meeting consumer's needs and expectations.

Common units of measurement, accurate and reliable measurement instruments and techniques are all fundamental components of science and technology and indispensable for a broad variety of human activities.

Metrology is essential in the context of COVID-19 as accurate chemical and biological measurements play a vital role in this crisis. In this particular field, certified reference materials (CRMs) and reference measurement methods provide stated references upon which analytical laboratories can anchor their measurement results.

This helps to reduce the potential of having false positives or false negatives test results. In addition, the traceability of measurement results to internationally accepted stated references, together with their stated measurement uncertainties, provide the basis for their comparability and global acceptance.

Governments during the crisis are increasingly in need of accurate day to day measuring instruments as thermometers, sphygmomanometers (blood pressure meter), oxygen flow meters (respirators), liquid (medication) flow meter, etc. these need to be trustworthy and reliable. International suppliers are in great pressure to fulfill the global demand, special attention is required to standards of fabrication materials but also standards of performance (accurate measurements) and the certification of measuring instruments.

A failure or misreading output of this essential products needs to be minimized. In 2019, the UN Industrial Development Organisation and the International Organization of Legal Metrology developed a guidance document for the certification of measuring instruments.



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