TANZANIA BUREAU OF STANDARDS

Tanzania status on adopting IEC International Standards

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The country is a **United Republic**, between Tanzania Mainland and Zanzibar

**Capital:** Dodoma, Business city is Dar Es Salaam

**Total Area:** 945,234 km², 886,040 km² is land and 62,050 km² is water.

**Population:** 42 Million people (2010 est.)

**People:** Multicultural society with 120 tribes

**Political system:** Multi party democracy

**Official languages:** Swahili and English

**Natural Resources:**

(a) **Minerals** - Gold, Diamonds, Tanzanite and various other gemstones, natural gas, iron ore, coal, phosphates, soda ash and salt.

(b) **Wildlife and Tourism** - 12 National Parks, 13 Game reserves, 38 Game Controlled Areas: National Cultural Heritage Sites (about 120 sites)

**Currency:** Tanzania shilling or $1 = TZS. 1600 (October 2011)

**GDP:** 6.7 % (2011 est.)

**Highest point:** Mt. Kilimanjaro (5892m)
BRIEF ABOUT TBS

- Established by Standards Act No. 3 of 1975 and re-established by Standard Act No. 2 of 2009.
- Parastatal organization under the ministry of Industry and Trade with 192 staffs.
- Became operational on April 1976.
- Headed by DG and has four directorates.
- Applies Integrated approach to standardization.
- Four out of eight accredited labs i.e. Metrology, Microbiology, Textile and food labs.
- Membership: ISO, CODEX, ARSO, EASC, SQAMEC.
- IEC Affiliate (free Programme, no membership status).
- Host regional PTC and cotton Labs.
- Border offices established.
More than 1500 standards exist (catalogue of 2010)

Covers electrical engineering, mechanical engineering, civil engineering, environment, agriculture and food, packaging, labeling, textile, building and construction, manufacturing, information and communication technologies, energy, quality management, conformity assessment and services.

About 109 standards cover electrical field i.e.

- electrical installations,
- electrical equipments,
- solar energy,
- manned security systems, and
- cells and batteries.
Electrical Engineering Divisional Committee (EEDC) is the National Electrotechnical Committee.

EEDC composes of the following TCs

- EEDC 1 – Electrical Equipments Technical Committee
- EEDC 2 – Cells and Batteries Technical Committee
- EEDC 3 – Electrical Installations Technical Committee
- EEDC 4 – manned security systems Technical Committee
- EEDC 5 – Solar Systems Technical Committee

EEDC draws its members from various stakeholders including government institutions/ministries, regulators, universities, manufacturers, importers and consumers.
ADOPTED IEC INTERNATIONAL STANDARDS

- Out of 109 existing electrical standards, about 41 standards are adopted from IEC International Standards
IEC International Standards facilitate international regulatory compliance which allow products to be supplied and used across different markets.

IEC International Standards reflect the state of the art and serve as a vehicle for the dissemination of new technologies and innovative practices.

IEC International Standards are developed using procedures which avoid duplication and conflict of many available standards.

Save cost of preparing standards.

IEC International Standards are WTO-TBT compliant.

IEC International Standards offer the same level of consumer protection whether applied in a mature or an evolving economy.
BENEFITS OF IEC AFFILIATE COUNTRY PROGRAMME

- Enables TBS to participate in the IEC global standardization work without membership fee and

- Enables TBS to use IEC International Standards and other documents free of charge
TBS had a privilege and opportunity to attend various IEC TCs meetings including TC 23, TC 61, TC 64, TC 81 and TC 89. Council Statutory sessions and Open sessions and Affiliate fora.

TBS has registered to subscribe to ten selected IEC TCs, these are:

- TC 14 – Power transformers
- TC 17 – Switchgear and controlgear
- TC 20 – Electric cables
- TC 22 – Power electronic systems and equipment
- TC 34 – Lamps and related equipment
- TC 35 – Primary cells and batteries
- TC 61 – Safety of household and similar electrical appliances
- TC 64 – Electrical installations and protection against electric shock
- TC 79 – Alarm and electronic security systems
- TC 82 – Solar photovoltaic energy systems
BENEFITS OF RECEIPT OF IEC DOCUMENTS IN SOFT COPY AND IEC DIRECTORY

- Save time for searching and acquiring information, standards and other IEC documents
- Make standards and other IEC documents readily available for adoption, referencing and other related use.
- Reduce paper work and therefore save cost
BENEFITS OF COMMENTING ON IEC INTERNATIONAL STANDARDS

• It enables Tanzania to participate in formulation of such standards.

• It enables Tanzania’s voice on a specific area of interest to be heard.

• It enables TBS to stay focused on IEC worldwide standardization work i.e. new projects.

• It helps TBS to keep track of the status of the adopted standards.
BENEFITS OF INFORMATION EXCHANGE

- To promote communication between TBS and IEC.
- To promote the use of IEC International Standards in response to market demands.
- To ensure transparency of the standards process in order to facilitate world trade.
- To accelerate the standardization process in order to meet various demands of the market.
- To make rationale use of available resources in standardization activities.
- Facilitate transfer of technology.
BENEFITS OF HARMONIZATION EAS AND SADC STANDARDS

- Harmonization of East African Standards (EAS) and Southern African Development Community (SADC) standards
  - Reduces the non-tariff barriers posed by testing and certification of products and the administration of standards within the regions.
  - Harmonization of product standards reduces production cost because it is expensive for producers to diversify products enough to meet the requirements of different importing countries. And uniformity of products (as a result of harmonization) usually benefits consumers.
CHALLENGES IMPACTING STANDARDIZATION

- Low industrial base
- Inadequate power capacity
- Influx of substandard products
- High level of quality awareness.
THANK YOU

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Welcome to Tanzania