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CODE OF PRACTICE

Guidelines for importation of used electrical and electronic equipment (UEEE) in Zanzibar

DRAFT GUIDELINES FOR PUBLIC COMMENTS

ZANZIBAR BUREAU OF STANDARDS

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National foreword

This draft Zanzibar National Standard has been developed by the Electrical and Electronics Standard Technical committee. In accordance with Zanzibar Bureau of Standards general procedures, this draft standard is presented to the public in order to receive any technical comment concerns.

Technical Committee Representatives

This Draft Zanzibar National Standard was prepared by Electrical and Electronics Standard Technical committee which consists of representatives from the following organizations:

State University of Zanzibar (SUZA)
Zanzibar Electricity Corporation (ZECO)
Department of Energy (DoEM)
Zanzibar National Chamber of Commerce, (ZNCC)
Vocational Training Authority of Zanzibar (VTA)
Zantexas Investments Company Limited
Mnazi Mmoja Hospital (Biomedical Engineering)
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Introduction

In 2010 Department of Environment Zanzibar conducted a research on “Import, Handling, Disposal and Recycling of E-waste”, it shows that there are massive importation of used electrical and electronic equipment in Zanzibar which has lead to the environmental pollution. With this fact, Zanzibar Bureau of Standards (ZBS) developed guidelines for the importation used electrical and electronic equipment (UEEE). These Guidelines are in line with the Zanzibar Development Vision 2050, Zanzibar Development Plan (ZADep), Sustainable Development Goals (SDGs), Zanzibar Blue Economy Policy 2020) and the role of ZBS according to the Zanzibar Standards Act No.1 of 2011.

In her effort to improve further the socio-economic status of the people, The Revolutionary Government of Zanzibar (RGoZ) in July 2011 enacted the Zanzibar Standards Act No.1 of 2011, which aims at protecting society from using of substandard goods and services. This Act established the Zanzibar Bureau of Standards (ZBS) whose mandates include establishing, publishing, promoting, amending or modifying updated version of standards for quality, quantities and units of measurements to be used. Also shall be implemented through undertaking measures for quality control, quality assurance and certification of commodities, services and environment governing industries and trade.

The motive of RGoZ is to encourage private sector to fully participate in production through industrial and trade development and delivery systems of goods and services in the country. Traders in most cases engage in importing foods stuff, construction materials, and other consumables and used commodities largely used electrical and electronic equipment.

It is envisaged that establishing ZBS and its operation will protect all citizens including all vulnerable groups from using substandard or hazardous goods whether manufactured within or imported from outside Zanzibar.

ZBS is responsible to ensure that all commodities in the market provide safety and health to consumers as well as protecting environment, through developing appropriate standards including guidelines, certification, and inspection and testing systems.

Zanzibar Trade Policy (2006), emphasized among others strengthening regional and international trade partnership, establishing Pre-Shipment Inspection, legislating anti-dumping trade, trade fairs, e-commerce, offshore companies and business and matters relating to domestic trade, packaging, trade competition, measurements and consumer protection.

These guidelines focus on the aspects relating to control the equipment in order to protect health and safety of consumers as well as maintain/conserves the sustainable environmental condition.

The development of the guidelines has considered the importance of trade in poverty reduction and economic development of the people and nation at large.

The present technical guidelines provide guidance for managing and controlling import of used electrical and electronic equipment in Zanzibar.

Guidelines for importation of used electrical and electronic equipment (UEEE) in Zanzibar

1 Scope

This document provides guidance on controlling used electrical and electronic equipment, that are imported into Zanzibar based on the economic situation, trade, safety, and preserving the environment and the health of the people due to the effects of used electrical and electronic equipment.

It provides the criteria for grading used electrical and electronic equipment.

Also apply for medical, academic and research used electrical and electronic equipment.

This document doesn't cover recycling and disposal of E- Waste.

Items mentioned below are strictly prohibited to be imported in Zanzibar under any circumstances.

- a) Any harmful equipment which associated with hazardous substances as mentioned by World Health Organization (WHO), some examples are available in Annex A.
- b) Any affordable UEEE as stipulated in the Annex A.

2 Normative references

For the purpose of these Zanzibar guidelines, the following references shall apply:

Research on import, handling, disposal and recycling of e-waste: A situational analysis for Zanzibar, 2014, Department of Environment Zanzibar.

Guidelines for Medicines and Medical Equipment Donations and Guidelines for Safe Disposal of Unwanted Pharmaceuticals, Ministry of Health and Social Welfare

ZNS 10 –1:2022 Safety of household and similar electrical appliance – Part 1: General requirements.

ZBS procedure for destination Inspection and market surveillance

Guide for Importers of Used Electrical and Electronic Equipment into Nigeria, 2013, National Environmental Standards and Regulations Enforcement Agency (NESREA), Nigeria.

Guidelines for the Classification of Used Electrical and Electronic Equipment in Malaysia, Second Edition, 2010, Department of Environment Malaysia.

Control on the Import and Export of Waste, Used or Second-hand Computers, Electrical and Electronic Appliances, Environmental Protection Department and Customs and Excise Department of the Hong Kong Special Administrative Region.

Correspondents Guideline No. 1, interpretation of Council Regulation (EEC) No 259/93 of 1 February 1993 on the supervision and control of shipments of waste within, into and out of the European Community.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

Used Electrical and Electronic Equipment (UEEE)

Means a second-hand equipment of electrical and electronic that are imported in Zanzibar.

3.2

Medical equipment

Device designed to aid in the diagnosis, monitoring or treatment of medical conditions

3.3

Academic equipment

Electrical and electronic equipment used for academic purposes, in places such as schools, universities or other related places.

3.4

Research equipment

Electrical and electronic equipment used in analysis for experimental purpose.

3.5

Direct re-use

Means any operation by which discarded electrical or electronic equipment or components are used for the same purpose for which they were conceived, including the continued use of the whole systems or components.

3.6

Evaluation

Means inspection, sampling and testing.

3.7

Recycling

Means removing or using the material from the manufactured equipment as part of raw materials for new products or components.

3.8

Recovery

Means any operation for the purpose of retrieval of valuable material or product from e- waste

3.9

Disposal

Means method of final disposition, final placement or destruction of e-waste.

3.10

Authorized Institutions

Those institutions which have power on controlling and monitoring the importation of UEEE in Zanzibar.

3.11

Waste Electrical and Electronic Equipment (WEEE/E-West)

Means end-of-life or discarded appliances which use electricity.

3.12

Quality of Used Electrical and Electronic Equipment

Means UEEE that are fit for use and has no effects for human health and environmental condition

3.12**Importing**

Means bringing into the country any used or waste electrical and electronic equipment for any purpose (importer include donor, supplier, recipient of electrical and electronic equipment)

3.13**Conditional release:**

Is the situation where the products are allowed to be taken out of the entries ports and remain under supervision of ZBS, but not to be entered in the market until ZBS has approved their test and issued certificate.

Note: Conditional release is given to the importer if and only if the importer finished the application earlier but the testing procedure for particular equipment takes more than the time required for the container/equipment has to stay at the entry.

3.14**Rated frequency**

Frequency assigned to the appliance by the manufacturer.

3.15**Rated frequency range**

Frequency range assigned to the appliance by the manufacturer, expressed by its lower and upper limits.

3.16**Normal operation**

Conditions under which the appliance is operated in normal use when connected to the supply.

3.17**Rated voltage**

Voltage assigned to the appliance by the manufacturer.

NOTE – For three-phase supply it is the voltage between phases.

3.18**Rated voltage range**

Voltage range assigned to the appliance by the manufacturer, expressed by its lower and upper limits.

3.19**Working voltage**

Maximum voltage to which the part under consideration is subjected when the appliance is supplied at its rated voltage and operating under normal operation.

NOTE – When deducing the working voltage, the effect of transient voltages is ignored.

3.20**Rated power input**

Power input assigned to the appliance by the manufacturer.

3.21**Rated power input range**

Power input range assigned to the appliance by the manufacturer, expressed by its lower and upper limits.

3.22**Rated current**

Current assigned to the appliance by the manufacturer.

3.23**DC (direct current)**

Is the unidirectional flow or movement of electric charge carriers (which are usually electrons). The intensity of the current can vary with time, but the general direction of movement stays the same at all times. As an adjective, the term DC is used in reference to voltage whose polarity never reverses.

3.24**Refrigerant gases**

A refrigerant is a substance or mixture, usually a fluid, used in a heat pump and refrigeration cycle. In most cycles it undergoes phase transitions from a liquid to a gas and back again.

3.25**Minor repair**

Shall be defined as a replacement or basic repair of any component or part of the electrical and electronic equipment.

3.26**Major repair**

Means a repair where the complexity of the repair may significantly affect proper accomplishment and thereby adversely affect structural strength, performance and operation.

3.27**Grade A**

These are UEEE that are imported and can be used without any repairs and function properly similar to original product and are environmentally friendly

3.28**Grade B**

These are UEEE that are imported and do not function properly, but can function properly after minor repair and are environmentally friendly

3.29**Grade C**

These are UEEE which do not function properly and need major repairs, or have environmental effects or their components are old and out of date (end-of-life).

3.30**PVoC**

Means Pre-shipment Verification of Conformity.

3.31**Physical test**

Qualitative or quantitative procedure that consists of determination of one or more characteristics of given equipment, process or service according to a specified procedure.

3.33**Monitoring**

Means is a process of observing and tracking activities and progress

4 Guidelines for Controlling of Used Electrical and Electronics Equipment.

4.1 Monitoring and controlling of UEEE

To ensure the imported UEEE are safe for both human and environment, the Zanzibar Bureau of Standards:

4.1.1 Shall monitor and control the importation of used electrical and electronics at all Zanzibar's entries in collaboration with authorized institutions.

4.1.2 May engage with PVoC agencies to determine the grade of used electrical and electronic equipment in the exporting countries.

4.1.3 Shall conduct physical inspection of used electrical and electronic equipment to determine if the equipment is functionally fit and environmentally friendly.

4.1.4 Shall conduct market surveillance for monitoring and controlling UEEE.

4.2 Characteristics of the Used Electrical and Electronic Equipment that should not be imported in Zanzibar.

The used electrical and electronic equipment with the following characteristics are completely prohibited to be imported in Zanzibar.

4.2.1 Equipment in which their essential parts are missing.

4.2.2 Functionality or safety is impaired. Any imported equipment must work properly according to Zanzibar's climatic conditions.

4.2.3 Appearance of the equipment is generally worn or damaged such as burn marks, broken, cracked, heavily scratched etc, even if they work.

4.2.4 Insufficient packaging for protecting the equipment from damage during transportation, loading and unloading operations.

4.2.5 Non functional equipment; those are destined for disposal or recycled.

4.2.6 All equipment that do not work under desired input and output.

4.2.7 Equipment produced by partially e-waste recovery facilities. (Spare part of used)

4.2.8 Equipment which emit harmful radiations.

4.2.9 All equipment that fall under "Grade C"

4.3 Requirements for importers of used electrical and electronic equipment

All importers of used electrical and electronic equipment shall meet the following requirements:

4.3.1 Where the holder of the equipment or products indicates an intention to ship or is shipping UEEE and not WEEE, the following documentation shall be provided to back up the claim to the department concerned:

- a) A copy /or original of Bill of lading/airway bill/delivery order, invoice/packing list and authorization letter.
- b) A declaration made by the holder who arranges the transport of the UEEE that none of the material or equipment within the consignment is WEEE or contains WEEE in its components.
- c) Evidence of sufficient packaging to protect it from damage during transportation, loading and unloading.

4.3.2 Prior to any trans-boundary movement of UEEE, the importer or the representative/agent shall provide information to the appropriate authorities proving compliance with these guidelines.

4.3.5 Shipping documents shall be submitted to the ZBS for further process.

5. Guidelines for Used Electrical and Electronic Medical Equipment (UEEME)

5.1 General Requirements

This part of guideline is intended to be used for importing used electrical and electronic medical equipment.

To ensure the imported UEEME are safe for both human and environment, the importer has the following responsibilities before importation of used electrical and electronic medical equipment.

5.1.1 Importer shall ensure the imported electrical and electronic medical equipment is safe and fit for use.

5.1.2 Importer shall understand and follow the existing relevant laws, regulations, and policies of Zanzibar with respect to importation of Medical Equipment.

5.1.2 Equipment must work properly, maintainable and has service manual and operational manual.

5.1.3 Consider climatic and environmental conditions, such as heat (temperature), humidity,

5.1.4 Importer must ensure the availability of location for the equipment including site accessibility, space, staff experience and training required for installation, operation and maintenance.

5.1.5 Estimated lifespan of the equipment based on the model, year of manufacture and whether it is new or reconditioned. Used time of the equipment should not be more than half of its life time.

5.1.6 The importer has the following responsibilities after importation of used electrical and electronic medical equipment.

- a) The importer shall include all installation, operation, maintenance, repair manuals and technical diagrams.
- b) The technical documents should be supplied in English and/or Kiswahili language. Also the importer must include all relevant documents as mention in clause 4.3.1 up to clause 4.3.5 in this guidelines.

5.1.7 The importer also shall be required to follow from clause 4.2 up to clause 4.2.9 for the application of UEEME.

5.2 Criteria for Accepting Used electrical and Electronic Medical Equipment.

The importer shall meet the following criteria for acceptance before importing used electrical and electronic medical equipment:

- a) Usefulness,
- b) Quality and safety,
- c) Preferably current and popular model,
- d) Economically in terms of running costs,
- e) There should be a need of that equipment,
- f) Should fulfil all conditions mentioned in these guidelines.

6. Guidelines for used academic and research electrical and electronic equipment

6.1 General Requirement

This part of guideline is intended to be used for importing used academic and research equipment.

All importers of used academic and research equipment shall meet the following requirements:

6.1.1 For academic and research equipment, the equipment shall have lifespan based on model, year of manufacture and whether it is new or reconditioned and should not contain waste in their components.

6.1.2 For research and academic equipment, used time of equipment shall not be more than half of its life time.

6.1.3 The importer also shall be required to follow from clause 4.2 up to clause 4.2.9 and clause 4.3 up to clause 4.3.5 for the application of for used academic and research electrical and electronic equipment

7. General Specifications

This general specification shall be applicable for all guidelines of this document

7.1 Rated input and output voltage:

The rated I/O voltage of used electrical and electronic equipment shall not be more than 250V for single-phase appliances and 480V for three phase appliances.

7.2 Power rated input frequency

The rated frequency for used electrical and electronic appliances should be ranging from 50/60 Hz.

7.3 Resistance for rusting

The outside and inside materials of UEEE and surrounding ferrous parts shall be adequately protected against rusting.

7.4 Resistance to electric shock

The UEEE shall have proper insulation resistance applying between live terminal and earth and the whole system of conductors.

7.5 Effect of radiation, toxicity and similar hazards

All UEEE shall not emit harmful radiation or present a toxic or similar hazard, to ensure proper operation of UEEE.

7.6 Resistance to heat and fire

The UEEE shall be sufficiently protected against thermal heating and risk of fire.

7.8 Stability and mechanical hazards

Used electrical and electronic appliances, other than fixed appliances and hand-held appliances, intended to be used on a surface such as the floor or a table shall have adequate stability.

7.9 Mechanical strength

Used electrical and electronic appliances shall have adequate mechanical strength and be constructed to withstand such rough handling that may be expected in normal use.

8. General Inspection and Verification

8.1. Method of inspection:

Inspection shall be conducted as described in the ZBS procedure for destination Inspection and market surveillance:

8.2 The Standards Inspector (SI) on duty shall be responsible to conduct inspection for both cases DI and PVoC regulated products:

- a) Standards Inspector prepare inspection tools with batch certificate/ inspection form and/ conditional release form for conducting inspection
- b) Standards Inspector conducting physical inspection and/collect sample if possible. inspector institutes professional judgment in performing the types, ranges and volume of activities
- c) Standards Inspector shall receive Shipping documents for further process.

8.3 Standards Inspector shall request a copy of the documents relating to the sales of UEEE (highly recommended):

- a) Proof of evaluation/testing and certificate containing testing information if applicable.
- b) Bill of lading.
- c) Parking list
- d) Authorization letters

8.4 The Standards Inspector shall be required to inspect used electrical and electronic equipment as mentioned from clause 4.2 up to clause 4.2.9 in examine conformance.

10. Certification:

ZBS shall provide a Batch Certificate/Inspection report after compliance with the requirements of this guideline.

14. Rejections:

The importer who fails to meet these guidelines shall be fined according to ZBS Act No 1 of 2011 and ZBS regulations and required to take full responsibility to return back the UEEE under his/her own expenses.

Annex A**List of Used Electrical and Electronic Equipment that are not Allowed in Zanzibar**

- Touches.
- Plugs.
- Switches.
- Sockets.
- Electrical and electronic cables.
- Junction boxes
- Electrical Testers
- Mouse
- Keyboards
- Flush disks
- light Bulbs
- Electrical holders
- Equipment with waste metal contaminated with heavy metals such as cadmium, mercury, lead, nickel, chromium, copper, lithium, silver and manganese
- Equipment with dichloro- diphloro methane (R-12)
- Printed circuit board
- Patterned wafer
- Motherboard
- Hard disk drive
- Lead frame
- Rejected or waste of integrated circuit
- And all other related items

Annex B**List of Used Electrical and Electronic Equipment that are allowed in Zanzibar**

- Television
- Air-conditioning unit
- Computer
- Refrigerator
- Washing machine
- Video recorder
- Telephone
- Armamentarium equipment
- Photostat machine
- Facsimile machine
- Microwave / oven
- Radio
- Printers
- Audio amplifier
- Cathode ray tube (CRT)
- Mobile phone
- And all other related items

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