EMDC 1 (4910) / ISO 4789:2023

DRAFT TANZANIA STANDARD

Guidelines for wastewater treatment and reuse in thermal power plants

DRAFT FOR PUBLIC COMMENTS ONLY

TANZANIA BUREAU OF STANDARDS

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EMDC 1 (4910)

Preface

This Tanzania Standard was published under the authority of Board of Directors of Tanzania Bureau of Standards.

Tanzania Bureau of Standards (TBS) is the statutory national standards body for Tanzania established under Standards Act No.3 of 1975 and replaced by the Standard Act No. 2 of 2009.

The environmental management Divisional Standards Committee, under whose supervision this Tanzania Standard was prepared, consists of representatives from the following organizations;

The Vice President's Office – Directorate of Environment (VPO)
Sokoine University of Agriculture (SUA)
Ministry of Industry and Trade (MIT)
*National Environment Management Council (NEMC)
Muhimbili University of Health and Allied Sciences (MUHAS)
*Ardhi University (ARU)
Tanzania Pesticide Research Institute (TPRI)
Tanzania Portland Cement Public Limited (TPCPL)
Clear Production Center – Tanzania (CPC)
AGENDA for Environment and Responsible Development (AERD)
Government Chemist Laboratory Authority (GCLA)

The organizations marked with an asterisk (*) in the above list together with the following were directly represented on the Technical Committee entrusted with the preparation of this Tanzania Standard.

University of Dar-es Salaam,
Water Institute,
Ministry of Water,
BORDA Africa,
TGDC
Ardhi University
Occupational, Safety and Health Association (OSHA),
DAWASA,
Ubungo Municipal Council.

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National foreword.

This Tanzania Standard is identical to ISO 4789:2023, Guidelines for wastewater treatment and reuse in thermal power plants, published by the International Organization for Standardization (ISO).

National committee comments

The following changes were proposed during national technical committee consideration:

- Clause 6.6.2: Replace “soften water quality” with “reducing water hardness”.
- Table A.7: Confirm the values for sulphate and total dissolved solids (TDS).

Terminology and conventions

Some terminologies and certain conventions in the ISO standards are not identical with those used in Tanzania Standards and attention is drawn to the following:

The comma (,) has been used as a decimal marker (.) for metric dimensions. In Tanzania Standards, it is current practice to use a full point on the base line as the decimal marker.

Wherever the words “International Standard” appear in this Tanzania Standard, they should be interpreted as “Tanzania Standard”.

Scope

This document provides guidelines for the treatment and reuse of wastewater generated in thermal power plants, including consideration of wastewater sources, treatment approaches and reuse applications.

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