



## TANZANIA STANDARD

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**Guidelines for treated wastewater use for irrigation projects - Part 1: The basis of a reuse project for irrigation**

## TANZANIA BUREAU OF STANDARDS

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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  
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 (UDSM)  
Water Institute (WI)  
BORDA Africa  
Occupational, Safety and Health Association (OSHA)  
Dar es Salaam Water Supply and Sanitation Authority (DAWASA)  
Energy and Water Utilities Regulatory Authority (EWURA)  
Ministry of Water (MW)

## **0. National foreword**

The Tanzania Bureau of standards is the statutory national standards body for Tanzania, established under the act.No.3 of 1975, amended by act.No.2 of 2009

This Tanzania standard is being prepared by the Wastewater Technical Committee, under the supervision of the Environmental Management Divisional Standards Committee (EMDC)

This Tanzania Standard is identical to ISO 16075-1 Guidelines for treated wastewater use for irrigation projects - Part 1: The basis of a reuse project for irrigation published by the International Organization for Standardization (ISO).

## **Terminology and conventions**

The text of the International Standard is hereby being recommended for without deviation for publication as Tanzania standard.

Some terminology and certain conventions are not identical with those used as Tanzania standards; attention is drawn to the following:

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

Wherever the words "International Standard" appear, referring to this standard, they should read as "Tanzania Standard".

## **SCOPE**

This document contains guidelines for the development and the execution of projects intending to use treated wastewater (TWW) for irrigation and considers the parameters of climate and soil.

The purpose of this document is to provide guidance on all elements of a project using TWW for unrestricted and restricted irrigation, including design, materials, construction, and performance, when used for the following:

- Irrigation of agricultural crops;
- Irrigation of public and private gardens and landscape areas, including parks, sport fields, golf courses, cemeteries, etc.

These guidelines are intended to provide assistance for the benefit of users of TWW for irrigation. The guidelines relate to the widespread and common ranges of water quality rather than exceptional or unique ones and are intended for the use of professionals, such as irrigation companies (designers and operators), agricultural extension officers or advisors, water companies (designers and operators), local authorities and water utilities. The use of these guidelines by users might require additional specifications.

