

BUREAU OF INDIAN STANDARDS

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<p>भारतीय मानक मसौदा</p> <p>परिष्कृत अपशिष्ट जल के सिंचाई परियोजनाओं में उपयोग के लिए मार्गदर्शी सिद्धांत — भाग 5: उपचारित अपशिष्ट जल कीटाणुशोधन और समतुल्य उपचार</p> <p><i>Draft Indian Standard</i></p> <p>GUIDELINES FOR TREATED WASTEWATER USE FOR IRRIGATION PROJECTS — PART 5: TREATED WASTEWATER DISINFECTION AND EQUIVALENT TREATMENTS</p> <p>(ICS 13.060.01)</p>	
Environment Protection Sectional Committee, CHD 32	Last Date for Comments: 19 December 2023

NATIONAL FOREWORD

(Formal clause to be added later)

Under the general title ‘Guidelines for Treated Wastewater Use for Irrigation Projects’, this standard is being published in several other parts. This part is an adoption of ISO 16075-5 : 2021 which provides a guideline for the application of various available methods of treated wastewater (TWW) disinfection for an effective inactivation or removal of pathogens from TWW, which is intended for irrigation purposes.

This document deals with:

- chemical and physical technologies, principles of operation, and establishment of effective doses to be applied, possible interferences, and technical guidance for design and monitoring;
- comparison of the advantages and disadvantages of various disinfection methods suitable for TWW;
- potential environmental effects of the disinfection methodologies and ways to minimize those impacts;
- disinfection at different locations in the TWW use system, including in the wastewater treatment plant, within the distribution system and at the point of use.

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions and terminologies are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

a) Wherever the words 'This document' appear referring to this standard, they should be read as 'Indian Standard'.

b) Comma (,) has been used as a decimal marker in the International Standard, while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, the reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their respective places, are listed below along with their degree of equivalence for the editions indicated:

<i>International Standards/ documents</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
ISO 20670 Water reuse — Vocabulary	IS 17623:2021 Water Reuse — Vocabulary	Identical under dual numbering

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 2022 'Rules for rounding off numerical values (Second Revision)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

'FOR COMPLETE TEXT OF THE DOCUMENT, KINDLY REFER ISO ISO 16075-5:2021'

Note: The technical content of the document has not been enclosed as these are identical with the corresponding ISO Standard. For obtaining the copy of the complete ISO Standard, please contact:

Scientist 'F' and Head
Chemical Department
Bureau of Indian Standards
Manak Bhavan, 9, Bahadur Shah Zafar Marg
New Delhi-110002
Telephone: 011-23236428
Email: chd@bis.gov.in or chd32@bis.org.in