

Summary of IS 13488:2008

IS 13488:2008, titled "Irrigation Equipment—Emitting Pipe Systems—Specification," is an Indian Standard that outlines the requirements for emitting pipe systems used in irrigation. This standard ensures the quality and performance of such systems, aligning them with international benchmarks.

Scope

The standard specifies the construction, dimensions, and performance criteria for emitting pipe systems intended for irrigation purposes. It covers aspects such as materials, design, and testing methods to ensure reliability and efficiency in water distribution.

Materials

Emitting pipes should be manufactured from virgin plastic materials, ensuring durability and resistance to environmental stress. The materials must conform to specified quality standards to maintain the integrity of the irrigation system.

Dimensions and Classification

The standard classifies emitting pipes based on their wall thickness and diameter, providing guidelines for various sizes to suit different irrigation needs. This classification aids in selecting appropriate pipes for specific applications.

Performance Requirements

Key performance criteria include:

- **Uniformity of Emission Rate:** Ensuring consistent water discharge along the pipe's length.
- **Resistance to Hydrostatic Pressure:** Ability to withstand internal water pressure without failure.
- **Resistance to Tension at Elevated Temperature:** Maintaining structural integrity under tensile stress at higher temperatures.
- **Environmental Stress Cracking Resistance:** Durability against cracking due to environmental factors.

Testing Methods

The standard outlines specific testing procedures to assess the above performance criteria, ensuring that emitting pipes meet the required quality and reliability standards before deployment.

Marking and Packaging

Emitting pipes must be appropriately marked with relevant information, including class designation and manufacturer's details. The standard also specifies color coding for different classes to facilitate easy identification.

SOURCES

<https://archive.org/details/gov.in.is.13488.2008?utm>

https://www.bis.gov.in/wp-content/uploads/2020/08/Revised_PM_IS_13488.pdf?utm

https://www.bis.gov.in/wp-content/uploads/2020/08/Revised_PM_IS_13488.pdf?utm

https://www.bis.gov.in/wp-content/uploads/2020/08/Revised_PM_IS_13488.pdf?utm

<https://bidplus.gem.gov.in/bidding/bid/documentdownload/5125273/1691041155.pdf>