***भारतीय मानक***

***Indian Standard***

**IS 3025 (Part 64) : 20XX**

**ISO 17294-1 : 2024**

**CHD/36/26051 F**

**जल और अपशिष्ट जल के नमूने लेने तथा परीक्षण (भौतिक एवं रसायन) की पद्धतियाँ**

भाग 64 उपपादन द्वारा मिलकर प्लाज्मा मास स्पेक्ट्रोमेट्री (आईसीपी-एमएस) के अनुप्रयोग — सामान्य अपेक्षाएँ

(*पहला पुनरीक्षण*)

**Methods of Sampling and Test (Physical and Chemical) for Water and Wastewater**

Part 64 Application of Inductively Coupled Plasma Mass Spectrometry (ICP-MS) — General Requirements

(*First Revision*)

ICS 13.060.50

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भारतीय मानक ब्यूरो

BUREAU OF INDIAN STANDARDS

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**October 2024 Price Group**

Water Quality Sectional Committee, CHD 36

**NATIONAL FOREWORD**

This Indian Standard (Part 64) which is identical with ISO 17294-1 : 2024 Water quality — Application of Inductively coupled plasma mass spectrometry (ICP-MS) Part 1 : General Requirements” issued by the International Organization for Standardization (ISO) was adopted by the Bureau of Indian Standards on the recommendation of Water Quality Sectional Committee and approval of the Chemical Division Council.

This standard was first published in 2015 which was identical to ISO 17294-1: 2004. This revision has been undertaken to adopt the latest version of ISO 17294-1 published in 2024. In this revision, following changes have been incorporated:

a) Scope has been revised to align with ISO 17294-2;

b) Text has been revised to reflect currently available instruments used in routine daily practice in many laboratories;

c) Clauses 5 and 6 have been revised to reflect the state-of-the-art equipment used to measure elements according to ISO 17294-2;

d) Abbreviated terms in Clause 9 have been revised to align with common terms used in other standards;

e) Table A.1 has been updated; and

f) Title has been revised to align it with title of ISO 17294-1: 2024.

BIS has also published separate standard IS 3025 (Part 65) which prescribes methods for determination of selected elements including uranium isotopes in water (e.g. drinking water, surface water, ground water, waste water and eluates) which is identical adoption of ISO 17294 (Part 2).

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

1. Whenever the words ‘This document’, appears referring to this standard, they should be read as ‘This Indian Standard’.
2. Comma (,) has been used as a decimal marker, while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

The Technical Committee responsible for the preparation of this standard has reviewed the provisions of the below mentioned ISO/IEC standards and has decided that they are acceptable for use in conjunction with this standard.

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| *International Standard* | *Title* |
| ISO 5725-1 | Accuracy (trueness and precision) of measurement methods and results — Part 1: General principles and definitions  |
| ISO 6206 | Chemical products for industrial use — Sampling — Vocabulary  |
| ISO Guide 33 | Reference materials — Good Practice in using reference materials |