

BUREAU OF INDIAN STANDARDS

DRAFT FOR COMMENTS ONLY

(Not to be reproduced without permission of BIS or used as an Indian Standard)

Draft Indian Standard

**CARBON DIOXIDE CAPTURE – CARBON DIOXIDE CAPTURE
SYSTEMS, TECHNOLOGIES AND PROCESSES**

भारतीय मानक मसौदा

**कार्बन डाइऑक्साइड कैप्चर - कार्बन डाइऑक्साइड कैप्चर
सिस्टम, प्रौद्योगिकियां और प्रक्रियाएं**

ICS 13.020.40

Environmental Management Sectional Committee, CHD 34

Last date for Comments: 20 June 2024

NATIONAL FOREWORD

(Formal clauses shall be added later)

This technical report describes the principles and information necessary to clarify the CO₂ capture system and provide stakeholders with the guidance and knowledge necessary for the development of a series of standards for CO₂ capture. It also covers technologies, equipment and process specific to CO₂ capture from the viewpoints of the standardization for the implementation of CCS.

Carbon capture and storage (CCS) is a technology to mitigate climate change. Many demonstration projects have been conducted worldwide, and CO₂ capture is an important process in CCS and is cost and energy intensive.

This standard describes CO₂ capture system based on published papers and other documents and then summarizes the different issues deemed most important by ISO/TC 265. This includes the following:

- Boundary for CO₂ capture systems;
- Technologies, equipment and processes;
- CO₂ streams, gas streams and emissions, processes and waste products;
- Evaluation procedures for capture performance;
- Safety issues on each capture system;
- Reliability issues on each capture system;
- Management system.

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:

- a) Wherever the words 'International Standard' appears referring to this standard, they should be read as 'Indian Standard'.
- b) Comma (,) has been used as a decimal marker, while in Indian Standards, the current practice is to use a point (.) as the decimal marker.