BUREAU OF INDIAN STANDARDS

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Draft Indian Standard

CARBON DIOXIDE CAPTURE, TRANSPORTATION AND GEOLOGICAL STORAGE – GEOLOGICAL STORAGE

भारतीय मानक मसौदा

कार्बन डाइऑक्साइड कैप्चर, परिवहन और भूवैज्ञानिक भंडारण – भूवैज्ञानिक भंडारण

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)

Geological storage of carbon dioxide (CO_2) is recognized as a key technology for abatement of CO_2 emissions to the atmosphere or ocean and is an essential component in the process of carbon dioxide capture and storage (CCS). This standard provides recommendations for the safe and effective storage of CO_2 in subsurface geological formations through all phases of a storage project life cycle. While CCS is a nascent industry, this standard is supported by a wide range of operational experiences in pilot to commercial scale carbon dioxide storage projects that have used methods and technologies mostly developed and widely deployed by the oil and gas industry including CO_2 enhanced oil recovery (EOR). This standard applied to injection of CO_2 into geological units for the sole purpose of storage and does not apply to CO_2 injection for hydrocarbon recovery or storage of CO_2 that occurs in association with carbon dioxide enhanced hydrocarbon recovery.

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.