

**BUREAU OF INDIAN STANDARDS**

DRAFT FOR COMMENTS ONLY

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

भारतीय मानक मसौदा

एकीकृत सीसीएस परियोजनाओं के लिए जीवनचक्र जोखिम प्रबंधन

*Draft Indian Standard*

**LIFECYCLE RISK MANAGEMENT FOR INTEGRATED CCS  
PROJECTS**

ICS 13.020.40

Environmental Management Sectional Committee, CHD 34

**Last date for Comments: 20 June 2024**

**NATIONAL FOREWORD**

*(Formal clause shall be added later)*

Carbon Capture and Storage (CCS) is a process that can mitigate the CO<sub>2</sub> emissions from power plants and other industrial sources of CO<sub>2</sub>. CCS draws on many decades of experience in the electricity generation, industrial gas separation, chemical and manufacturing industries, and oil and gas industries, including substantial experience with the subsurface injection techniques.

Risk assessment (detailed risk description and quantification) is completed using all available data, and assessment refreshed with updated numerical simulations which enable comprehensive risk analysis throughout the project lifecycle. The project lifecycle extends across all project phases from business development to site selection through post closure. Together, risk identification, assessment, analysis evaluation, management, and treatment are integrated into a risk management plan. The risk management plan aids in decision-making by the owner/operator and to the extent the results of planning are communicated, aids other stakeholders in evaluating the project.

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:

- Wherever the words 'International Standard' appears referring to this standard, they should be read as 'Indian Standard'.
- 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.

<i>International Standard</i>	<i>Title</i>
ISO 27917	Carbon dioxide capture, transportation and geological storage – Vocabulary – Cross Cutting terms

In reporting the result of the test or analysis made in accordance with this standard, if the final value, observed or calculated, is to be rounded off, it shall be done in accordance with IS 2:2022 ‘Rules for rounding off numerical values (*second revision*).