

**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

**कार्बन डाइऑक्साइड कैप्चर, परिवहन और भूवैज्ञानिक भंडारण -  
क्रॉस कटिंग मुद्दे - प्रवाह आश्वासन**

*Draft Indian Standard*

**CARBON DIOXIDE CAPTURE, TRANSPORTATION AND  
GEOLOGICAL STORAGE – CROSS CUTTING ISSUES – FLOW  
ASSURANCE**

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)*

This standard describes and explains the physical and chemical phenomena, and the technical issues associated with flow assurance in the various components of a carbon dioxide capture and storage (CCS) system and provides information on how to achieve and manage flow assurance. The gaps in technical knowledge, limitations of the tools available and preventative and corrective measures that can be taken are also described.

In relation to carbon dioxide capture and storage (CCS), flow assurance seeks to maintain the continuous supply of the CO<sub>2</sub> stream from the capture plant, through the transportation system and into the geological reservoir via injection. Flow assurance is required to demonstrate that all foreseeable operating modes of all components of CCS projects planned and unplanned are predictable, reliable and safe. It achieve this through analysis of the CO<sub>2</sub> stream flowing as a fluid in the various components of a CCS projects system from capture through to geological storage (capture, transport, injection and storage).

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.

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