



	भारतीय मानक ब्यूरो BUREAU OF INDIAN STANDARDS
	(PETROLEUM, COAL & RELATED PRODUCTS DEPARTMENT)
DRAFT MINUTES	
11 April 2023, Wednesday, 1030 - 1400 h	
Gaseous Fuels Subcommittee, PCD 3:5	28th Meeting
Convenor: Dr. M O Garg, In personal capacity (Former Director CSIR-IIP)	Member Secretary: Ms. Kreeti Das
Meeting Information	
Meeting mode: Hybrid (Chintan - Bronze Room, BIS HQ)	
Meeting link: https://bisindia.webex.com/bisindia/j.php?MTID=mee0d79eff20d9ef1c7ef3059b3f48aa6	
Meeting number: 25106937341	
Password: PCD03-2-5	

Item 1 OPENING OF THE MEETING

1.1 Welcome address

Smt. Meenal Passi, Sc. F and Head, PCD, welcomed Convenor and all members to the 28th meeting of PCD 03:5 and thanked everyone for their continued contribution to the work of PCD 03.

1.2 Opening remarks by the Convenor

Dr. M O Garg, Convenor, welcomed all members to the 28th meeting of PCD 03:5 and remarked that the meeting of PCD 03:5 is being conducted after a very long time. He noted that there has been a change in member secretary and while welcoming the new member secretary, emphasized the need for more frequent meetings. He expressed his pleasure over documents that have proceeded to wide circulation and publication stage. He also encouraged members to contribute new subjects for development of standards. He mentioned that by 2030, PCD 03:5 will have a very important role to play as the world is moving from liquid fuel to gaseous fuel. In view of this, he had proposed transfer of hydrogen fuel standard to PCD, which was eventually done. He emphasized that PCD 03:5 should work towards development of standards related to hydrogen fuel as research is underway on IC engines using directly hydrogen fuel and not fuel cells. Focus should be on green hydrogen as the hydrogen produced using fossil fuels (Grey Hydrogen) has a high carbon footprint. Currently, the price of green hydrogen is above 4\$/kilo but with further efforts it can be brought down to less than 1\$/kilo. IC engines utilizing hydrogen fuel show 33% efficiency, whereas the ones using fuel cells can provide more than 60% efficiency. So, to support India's target to achieve Net Zero Carbon by 2070 and to promote hydrogen as fuel of the future, PCD 03:5 has the added responsibility to work towards standards for utilization of green hydrogen as fuel.

1.3 Attendance of the meeting is given at **Annex I**.

Item 2 TITLE, SCOPE AND COMPOSITION OF PCD 03:5

2.1 The Subcommittee **NOTED** the title and scope of PCD 03:5 as given in Annex I of the agenda.

2.2 The Subcommittee **REVIEWED** the composition of PCD 03:5 as given in Annex I of the agenda and **RECOMMENDED** the following changes:



- a) Dr. M O Garg is the Convenor of PCD 03:5 in personal capacity. He was the Director of CSIR-IIP and after his superannuation, he was nominated as Convenor of PCD 03:5 in personal capacity.
- b) Dr. A R Shukla, being the president of Indian Biogas Association, to be nominated as representative of IBA. Co-option request to be sent to IBA along with nomination proforma.
- c) Nomination form to be sent to Biogas Forum India for updated nomination.

DECISION OF COMMITTEE: The Committee **AGREED** with the recommendations of the Subcommittee.

Item 3 ACTIVITIES OF GASEOUS FUELS SUBCOMMITTEE, PCD 3:5

3.1 The Subcommittee NOTED the list of standards published under PCD 03:5 as given in Annex II of the agenda.

3.2 Revision/Amendment of Indian Standards

Sl. No.	Indian Standard	Recommendation of Subcommittee
i.	PCD 03 (21305) First revision of IS 15958 : 2012 Compressed natural gas CNG for automotive purposes - Specification	<ul style="list-style-type: none"> The Subcommittee RECOMMENDED the document for finalization The Subcommittee RECOMMENDED BIS to circulate the document to PCD 03 by email to take approval for finalization as it is of high priority and pending since last meeting After approval of PCD 03 is received over email, the document to be sent for printing on top priority <p>DECISION OF COMMITTEE: The Committee FINALIZED the document for printing.</p>
ii.	IS 15127 : 2002/ISO 13686 : 1998 Natural gas — Quality designation	<ul style="list-style-type: none"> The Subcommittee RECOMMENDED BIS to circulate the WC at the earliest as it has been pending since last meeting. The Subcommittee RECOMMENDED to finalize the document for printing if no comments are received on the WC. <p>DECISION OF COMMITTEE: The Committee AGREED with the recommendations of the Subcommittee.</p>

3.3 New Standards under Development

Sl. No.	New Subject	Recommendation of Subcommittee
i.	PCD 03(19009)C Adoption of ISO 23306 : 2020 Liquefied natural gas as a fuel for marine applications — Specification	<ul style="list-style-type: none"> The Subcommittee NOTED the status of the document. <p>DECISION OF COMMITTEE: The Committee NOTED.</p>
ii.	20 percent Dimethyl ether (DME) blended liquefied petroleum gas (LPG) - Specification	<ul style="list-style-type: none"> The Subcommittee NOTED that the test method for determination of DME in LPG blend has reached WC stage in PCD 01 and RECOMMENDED to include the test method in this draft specification and issue it into WC for 2 months.