



## भारतीय मानक ब्यू BUREAU OF INDIAN STANDARDS

	(PETROLEUM, COAL & RELATED PRODUCTS DEPARTMENT)					
	AGENDA					
	24 July 2024 (Wednesday), 2:00 pm – 4:00 pm					
<b>Gaseous Fuel</b>	s Subcommittee, PCD 3:5	32nd Meeting				
Convenor: Dr	. M O Garg, In Personal Capacity	Member Secretary: Ms. Kreeti Das				

**Meeting Information** 

**Meeting mode:** Virtual

**Meeting Link:** 

https://bismanak.webex.com/bismanak/j.php?MTID=m3b5cbaf910a8bc9956716a308ddb3ada

**Meeting number**: 2517 295 6513

Password: Pcd3 5#32

#### **Item 1 OPENING OF THE MEETING**

1.1 Welcome address

1.2 Opening remarks by the Convenor

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

**2.1** The title, scope and composition of Gaseous Fuels Subcommittee, PCD3:5 is given in **Annex I**.

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

- **3.1** The list of Indian Standards published under PCD 3:5 is given at **Annex II**.
- 3.2 PCD 1 Methods of Sampling and Test for Petroleum and Related Products of Natural or Synthetic Origin (excluding bitumen) Sectional Committee - has published IS 15319: 2020/ISO 13734: 2013 "Natural Gas -Organic Components used as Odorants - Requirements and Test Methods".

This standard specifies requirements and test methods for organic compounds suitable for odorization of natural gas and natural gas substitutes for public gas supply. As it is a product specification and in ISO, this subject falls under ISO/TC 193/WG 5, both of which fall under the scope of PCD 3, it is proposed that IS 15319: 2020 may be transferred to PCD 3 from PCD 1.

### The Subcommittee may **CONSIDER**.

#### 3.3 Draft Standards/Amendments for Finalization

Sl. No	Indian Standard	Decision in Previous Meetings	Action Taken/Current Status
i.	PCD 03 (23073)WC  20 percent Dimethyl ether (DME) blended liquefied	The Subcommittee <i>DISCUSSED</i> and <i>RESOLVED</i> the comments received on the WC document.	<ul> <li>The document has been finalized and sent for printing.</li> <li>The Subcommittee may NOTE.</li> </ul>



petroleum gas (I - Specification	to finalize the document for printing as the comments on WC document were resolved with consensus.  COMMITTEE DECISION: The Committee ENDORSED the recommendation of PCD 3:5 and DIRECTED BIS to communicate the publication of this standard to Niti Aayog.	
PCD 03(25678)V Second Revision IS 16087 : 2016 Biogas (Biomethane) - Specification	value of may 0.2% for ovygen and	<ul> <li>There were more changes required to the standard in terms of correction of typographical error and correction of referred test methods, hence an ad-hoc (31st) meeting of PCD 3:2 was called on 9 May 2024 and it was recommended that a revised draft of IS 16087 should be circulated into WC instead of an amendment.</li> <li>The revised draft of IS 16087 was issued into WC for a period of 60 days on 15 May 2024, ending on 14 July 2024.</li> <li>Comments received on the WC document attached:</li> </ul> Collated%20Comme nts%20-%20PCD%20 The Subcommittee may CONSIDER.

#### 3.4 Comments on Indian Standards

Sl. No.	New Subject	Decision in Previous Meetings	Action Taken/Current Status
	IS 14861 : 2000		
1.	Liquefied petroleum gases (Lpg) for automotive	NA	Comment has been received on the standard from Shri Chandrakant Ghatol from IOCL



purposes - Specification	X
	Collated%20Comme nts%20-%20IS%2014
	• The Subcommittee may CONSIDER.

#### 3.5 New Subjects

Sl. No.	New Subject	Decision in Previous Meetings	Action Taken/Current Status
1.	Piped Natural Gas (PNG)	<ul> <li>The Subcommittee RECOMMENDED         BIS to co-opt PNGRB in the         Subcommittee as PNGRB has         developed gas quality specification         for city gas distribution (CGD)         network.</li> <li>Thereafter, the Subcommittee         RECOMMENDED BIS to develop a         preliminary working draft taking         inputs from PNGRB on quality of         piped natural gas for CGD network.</li> <li>The preliminary working draft to be         put up to the Subcommittee for         perusal.</li> <li>COMMITTEE DECISION: The Committee         ENDORSED the recommendation of PCD         3:5</li> </ul>	<ul> <li>PNGRB has been co-opted in PCD 3:5.</li> <li>PNGRB may be requested to provide characteristics and values for PNG for BIS to develop a working document.</li> <li>The Subcommittee may CONSIDER.</li> </ul>

#### **Item 4 ANY OTHER BUSINESS**

#### 4.1 NWIP on Biomethane Specification

- **4.1.1** In 30<sup>th</sup> meeting, the Subcommittee *RECOMMENDED* BIS to re-circulate the Form 4 to all members of the Subcommittee for a period of 7 days and *REQUESTED* all Subcommittee members to evaluate the form and provide comments, where necessary. If no comments are received, BIS may submit the proposal to ISO through the relevant task group of BIS, after approval from PCD 03.
- **4.1.2** If comments are received, BIS may update the form with approval of Subcommittee Convenor and submit to ISO through the relevant task group of BIS, after approval from PCD 03.

#### **COMMITTEE DECISION**: The Committee **AGREED** with the recommendation of Subcommittee.

**4.1.3** The Form 4 was re-circulated for a period of 7 days, however no comments received. Hence, the attached Form 4 will be tabled for approval of PCD 03.





#### The Subcommittee may CONSIDER.

#### 4.2 Nomination of Experts in WGs under ISO/TC 193 and ISO/TC 255

- **4.2.1** In last (51st) meeting of PCD 3, the Committee had *DIRECTED* BIS to approach GAIL and ONGC for nomination of experts to ISO/TC 193 and its WGs. Communication was sent to GAIL and ONGC for nomination of experts.
- **4.2.2** Nominations of experts received from GAIL for ISO/TC 193 and its WGs as attached:



#### The Subcommittee may CONSIDER.

- **4.2.3** In last (51st) meeting of PCD 3, the Committee had **APPROVED** the registration of Shri Debasis Sarma as Committee Member and expert in ISO/TC 255 and its WGs. The Committee had also **REQUESTED** IOCL to provide nomination of experts for ISO/TC 255.
- **4.2.4** As no nomination of experts has been received from IOCL after reminders, Shri Debasis Sarma may registered as Committee Member and expert in ISO/TC 255 and its WGs.

The Subcommittee may **NOTE**.

**Item 5 VOTE OF THANKS** 



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# ANNEX I (Item 2.1) TITLE, SCOPE AND COMPOSITION

#### **GASEOUS FUELS SUBCOMMITTEE, PCD 3:5**

a) Scope: To formulate Indian Standards for gaseous fuels including specification for natural gas and codes of practice for storage, handling, transport and application

#### **b) LIAISON** with

- ISO/TC 28 Petroleum Products and Lubricants, so far as it concerns its own scope
- ISO/TC 193 Natural gas
- ISO/TC 255 Biogas
- TED 2 Automotive Primemovers, Transmission Systems and Internal Combustion Engine Sectional Committee
- PCD 1:5 Test methods for Gaseous Fuels Subcommittee

**c)** Composition of PCD 03:5 is given below:

Convenor: Dr. M O Garg, In Personal Capacity

Sl. No.	Organization	Member Name	Member Email	Member Designation	Role	29 <sup>th</sup>	30 <sup>th</sup>	Total
	Automotive Decemb	Shri M A Bawase	bawase.aml@araiindia.com	General Manager	Principal Member	N	P	0/2
1.	,	M I Jamadar	jamadar.edl@araiindia.com	Dy. General Manager	Alternate Member			
	Pune	Debjyoti Bandyopadhyay	bandyopadhyay.pte@araiindia.com	Engineer	Young Professional			
2.	Bharat Petroleum Corporation Limited, Mumbai	Shri Siddhartha Mitra	siddhartham@bharatpetroleum.in		Alternate Member	N	Р	0./2
		Shri Chako M Jose	chackomjose@bharatpetroleum.in		Principal Member			0/2

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3.	Biogas Forum India, New Delhi	Nomination Awaited	Letter for nomination of representatives sent to organization					
4.	CSIR – Indian Institute	Mr. Soumen Dasgupta	soumen@iip.res.in	Sr. Principal Scientist	Principal Member	Υ	N	0/2
4.	of Petroleum, Dehradun	Mr. Ankur Bordoloi	ankurb@iip.res.in	Principal Scientist	Alternate Member	1	IN	0/2
5.	Centre for High	Shri Rajesh Agarwal	ed.cht@cht.gov.in	Executive Director	Principal Member	N		0./2
5.	Technology, New Delhi	Shekar Kulkarni	kulkarni@cht.gov.in	Additional Director	Alternate Member	N	P	0/2
	Federation of Indian	Shri D. L. N. Sastri	dlnsastri@fipi.org.in	Director (Oil Refining & Marketing)	Principal Member	N P		
6.	6. Petroleum Industry, New Delhi	Shri S K Sharma	dir gas@fipi.org.in	Director (Gas)	Alternate Member		P	0/2
		Shri Sujay Sarkar	sujay@fipi.org.in	Sr. Assistant Director (Gas)	Young Professional			
7.	GAIL (India) Limited,	Ajit Kumar Jha	ak.jha@gail.co.in	GM (O&M-CMG)	Principal Member	P	P	2/2
7.	New Delhi	Nitin Kumar Mishra	nk.misra@gail.co.in	DGM (PD)	Alternate Member	P	r	2/2
8.	Hindustan Petroleum Corporation Limited,	S N Sheshaschala	shesha@hpcl.in	CGM R&D	Principal Member	N	P	1 /2
0.	Mumbai	Sudhir Anamanamuri	sudhiranamanamuri@hpcl.in	Senior Manager - Technical	Alternate Member	IN	r	1/2
9.	Indian Biogas Association, Gurugram	Dr. A R Shukla	shuklaar@yahoo.com	President	Principal Member	N	Р	1/2
10.	Indian Oil Corporation	Dr M Subramanian	Subramanianm@indianoil.in		Principal Member	- P	N	1/2
10.	(R and D Centre), Faridabad	Shri M. Sithanathan	sithananthanm@indianoil.in	GM (AR)	Alternate Member			1/2

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11.	Indian Oil Corporation Limited - Refineries and Pipelines Division, New	S Bhar	S_bhar@indianoil.in	Dy. General Manager (Technical Services)	Alternate Member	N	P	1/2
	Delhi	Shri Ashish Kumar Jain	jainashish@indianoil.in	Dy General Manager (Technical)	Principal Member			
	Mangalore Refinery and	Shri R M Prakash	rmprakash@mrpl.co.in	Chief Manager, Quality Control	Principal Member			
12.	Petro Chemical Limited, Mangalore	Shri Subramanaya Prabhu	sprabhu@mrpl.co.in	Chief Manager, Production	Alternate Member	P	N	1/2
12	Nayara Energy Limited,	Shri Pratik Shah	pratik.shah@nayaraenergy.com		Principal Member	p	D	2 /2
13.	Mumbai	Shri Milan Vasoya	milan.vasoya@nayaraenergy.com		Alternate Member	P	P	2/2
	Oil and Natural Gas  14. Corporation Limited,  New Delhi	Smt. Leena John	leena_john@ongc.co.in	General Manager	Alternate Member	N	P	
14.		Shri Gour Mohan Dass	das_gm@ongc.co.in	Group General Manger-Chief Labs	Principal Member			1/2
		Dr. Devkishan Chhimpa	chhimpa_devkishan@ongc.co.in	Chief Chemist	Alternate Member			
	Petroleum and Natural	Shri Gagan Agarwal	gaggarwal@pngrb.gov.in	Deputy Director (Tech-II)	Principal Member			
15.	Gas Regulatory Board, New Delhi	Shri Sumit Sarkar	sumit.sarkar@pngrb.gov.in	Assistant Adviser (Tech- II)	Alternate Member	-	-	-
16.	Reliance India Limited, Mumbai	Shri Balasubramanian K	Balasubramanian.kuppuswamy@ril.com	Vice President	Principal Member	N	P	1/2
	Munibai	Shri S R Udayan	sivathanu.udayan@ril.com	Vice President	Alternate Member			



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		Shri Debasis Sarma	Debasis.Sharma@ril.com	Senior General Manager	Alternate Member			
	Society of Indian	Shri Prashant	pkbanerjee@siam.in	Executive	Principal			
17	Automobile	Kumar Banerjee	pkbanerjee@siam.m	Director	Member	D	N	1 /2
17.	Manufacturers (SIAM),	Dr. Sandeep Garg	agarg@ajam in	Dy. Executive	Alternate	r	IN	1/2
17.	Delhi	Dr. Sandeep Garg	sgarg@siam.in	Director	Member			•
		Shri D.S. Kulkarni	dalzulkarni@tatamatara gam		Principal			
17. I	Tata Motors Limited,	SIII D.S. KUIKAI III	dskulkarni@tatamotors.com		Member	D	NI NI	1 /2
10.	Pune	Shri Pallipalayam	p.gowrishankar@tatamotors.com		Alternate	P	N	1/2
		Gowrishankar	p.gowiishankai@tatamotors.com		Member			



# ANNEX II Programme of Work of Gaseous Fuels Subcommittee, PCD3:5

## **Standards Published**

SI. No.	IS No.	TITLE
1.	IS 4576 : 2021	Liquefied petroleum gases - Specification Third Revision
2.	IS 14861 : 2000	Liquefied petroleum gases Lpg for automotive purposes - Specification
3.	IS 15126 : 2002 ISO 13443	Natural gas - Standard reference conditions
4.	IS 15127 : 2002 ISO 13686	Natural gas - Quality designation
5.	IS 15320 ( Part 1) : 2012 ISO 15403-1 : 2006	Natural gas - Natural gas for use as a compressed fuel for vehicles Part 1 designation of the quality First Revision
6.	IS 15958 : 2012	Compressed natural gas Cng for automotive purposes - Specification
7.	IS 16087 : 2016	Biogas Biomethane - Specification First Revision
8.	IS 16704 : 2018 ISO 16861	Petroleum products - Fuels Class F - Specifications of dimethyl ether Dme
9.	IS 16737 ( Part 3) : 2018 ISO 8216-3 : 1987	Petroleum products - Fuels Class F - Classification Part 3 family l Liquefied Petroleum Gases
10.	IS 17314 : 2019	Hydrogen Enriched Compressed Natural Gas HCNG for Automotive Purposes Specification
11.	IS 18247 : 2023/ ISO 23306 : 2020	Liquefied natural gas as a fuel for marine applications - Specification
12.	IS 16061 (Part 1/Sub- Sec 2013) : 2021 ISO 14687:2019	Hydrogen Fuel Quality Product Specification