भारतीय मानक
Indian Standard

IS 16087 : 2025

बायोगैस (बायोमीथेन) — विशिष्टि

(दूसरा पुनरीक्षण)

Biogas (Biomethane) — Specification

(Second Revision)

ICS 75.060

भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDARDS
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August 2025 **Price Group 5**

Petroleum and their Related Products of Synthetic or Biological or Natural Origin Sectional Committee, PCD 03

FOREWORD

This Indian Standard (Second Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Petroleum and their Related Products of Synthetic or Biological or Natural Origin Sectional Committee had been approved by the Petroleum, Coal and Related Products Division Council.

The standard on biogas was first published in 2013 and subsequently revised in 2016. The objective of the standard was to provide specification for biogas (biomethane) composition and quality characteristics for application of biogas in thermal applications, stationary engines, automotive applications and supply through piped network.

Biogas (biomethane) is primarily methane gas which is generated through an anaerobic digestion of organic wastes by microorganisms. Biomethanation is a relatively simple and economical method to produce fuel from waste. The waste can include agricultural and crop waste, human waste, and animal waste (cow dung for instance). Biogas (biomethane) is an environment friendly clean burning fuel.

The raw biogas (biomethane) as obtained from the waste digesters comprises of methane (CH_4) as the main component (50 percent to 70 percent), and carbon dioxide (CO_2) (30 percent to 40 percent) with varying quantities of H_2S, moisture and few other gases in trace quantities. Its composition varies depending upon the feedstock used. The raw biogas is processed and purified from the unwanted gases like CO_2, H_2S and moisture upto a certain required level.

The standard was revised to fulfil the need of Ministry of Road Transport and Highways (MoRTH) for compressed biogas for automotive purposes. The Committee reviewed the existing standard and felt that for automotive purposes, the biogas should have same quality parameters as that of compressed natural gas for automotive use. Hence, the requirement of moisture and H_2S were modified.

This revision has been brought out on request of the Petroleum and Natural Gas Regulatory Board (PNGRB) to facilitate distribution of biomethane through blending with existing natural gas infrastructure, including city gas distribution (CGD) network. Hence, in this revision, the following major changes have been made:

a) Methane content has been increased to 95 mol percent;

b) $CO_2 + N_2 + O_2$ content has been content decreased to 5 mol percent;

c) Content of total sulphur has been (including H_2S) aligned with PNGRB (*Access Code for Common Carrier or Contract Carrier Natural Gas Pipelines*) *Regulations*, 2008;

d) Methods of tests have been updated; and

e) Provision for use of composite cylinders for on-board storage of fuel for automotives has been included in **5** through reference to IS 15935.

The composition of the Committee responsible for the revision of this standard is given in Annex B.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 2022 ‘Rules for rounding off numerical values (*second revision*)’. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

BIOGAS (BIOMETHANE) — SPECIFICATION

(Second Revision)

1 SCOPE

This standard prescribes the requirements and the methods of sampling and test for biogas (biomethane) to be used in stationary engines, automotive [bio-CNG/compressed biogas (CBG)], thermal, and industrial applications as supplied in cylinders and through piped network.

2 REFERENCES

The standards listed in Annex A contain provisions which, through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent edition of these standards.

3 TERMINOLOGY

For the purpose of this standard, the definitions given in ISO 14532 shall apply.

4 REQUIREMENTS

4.1 Biogas (biomethane) shall be free from liquids over the entire range of temperatures and pressures encountered in the storage and dispensing system, fuel containers, engine and fuel systems, and piped network.

4.2 The biogas (biomethane) fuel shall be free from particulate matter such as dust, dirt, etc.

4.3 Odour

Biogas (biomethane) delivered as fuel shall be odorized similar to a level found in the local distribution (*see* IS 15319).

4.4 The biogas (biomethane) shall also comply with the requirements given in Table 1 when tested in accordance with the methods given in col (4) of Table 1.

5 SUPPLY OF BIOGAS (BIOMETHANE)

5.1 Biogas (biomethane) shall be stored and transported in cylinders conforming to IS 7285 (Part 2). For automotive use, it shall be filled in cylinders conforming to IS 15490 or IS 15935.

5.2 It may be transported through piped network or injected into existing system of pipelines as per regulatory requirements.

6 SAMPLING

The representative samples of biogas (biomethane) shall be drawn as per sampling plan prescribed under IS 15125.

7 MARKING

7.1 Marking

Each cylinder shall be marked with the following information:

a) Name of the material;

b) Manufacturer's name, initials or trade-mark, if any;

c) Net volume of the material, in litre;

d) Identification in batch number or code number to enable traceability of consignment to date of manufacture;

e) Month and year of manufacture; and

f) Any other statutory requirements.

7.2 BIS Certification Marking

The product(s) conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act*, 2016 and the Rules and Regulations framed thereunder, and the products may be marked with the Standard Mark.

Table 1 Requirements for Biogas (Biomethane)

(*Clause* 4.4)

Sl No.	Characteristic	Requirement	Method of Test, Ref to
(1)	(2)	(3)	(4)
i)	Moisture, mg/m^3, *Max*	5	IS 15641 (Part 2)[a)]/IS 15641 (Part 3)
ii)	Methane, mole percent, *Min*	95	IS 15130 (Part 4)/IS 15130 (Part 5)[a)]
iii)	H_2S, mg/m^3, *Max*	3.7	ASTM D5504
iv)	Total sulphur[b)] (including H_2S), mg/m^3, *Max*	10	ISO 16960/ISO 20729[a)]
v)	$CO_2 + N_2 + O_2$, mole percent, *Max*	5	IS 15130 (Part 4)/IS 15130 (Part 5)[a)]
vi)	Only CO_2, mole percent, *Max*	4	IS 15130 (Part 4)/IS 15130 (Part 5)[a)]
vii)	Oxygen[c)], mole percent, *Max*	0.5	IS 15130 (Part 4)/IS 15130 (Part 5)[a)]

[a)] Referee method in case of dispute.

[b)] Total sulphur includes the sulphur content of odorant.

[c)] Oxygen can be determined using IS 15130 (Part 4) or IS 15130 (Part 5) using two TCD detectors with Ar or He as carrier gas.

ANNEX A

(*Clause* 2)

LIST OF REFERRED STANDARDS

IS No./Other Standards	*Title*
IS 7285 (Part 2) : 2017	Refillable seamless steel gas cylinders — Specification: Part 2 Quenched and tempered steel cylinders with tensile strength less than 1 100 MPa (112 kgf/ mm^2) (*fourth revision*)
IS 15125 : 2024/ ISO 10715 : 2022	Natural gas — Gas Sampling (*first revision*)
IS 15130	Natural gas — Determination of composition with defined uncertainty by gas chromatography:
(Part 4) : 2002/ ISO 6974-4 : 2000	Determination of nitrogen, carbon dioxide and C_1 to C_5 and C_{6+} hydrocarbons for a laboratory and on-line measuring system using two columns
(Part 5) : 2021/ ISO 6974-5 : 2014	Determination of nitrogen, carbon dioxide and C_1 to C_5 and C_{6+} hydrocarbons for a laboratory and on-line process application using three columns (*first revision*)
IS 15319 : 2020/ ISO 13734 : 2013	Natural gas — Organic components used as odorants — Requirements and test methods (*first revision*)
IS 15490 : 2017	Seamless steel cylinders for on-board storage of compressed natural gas as a fuel for automotive vehicles — Specification (*first revision*)
IS 15641	Natural gas — Determination of water by the Karl Fischer method:
(Part 2) : 2006/ ISO 10101-2 : 1993	Titration procedure
(Part 3) : 2007/ ISO 10101-3 : 1993	Coulometric procedure
IS 15935 : 2021	Composite cylinders for on-board storage of compressed natural gas (CNG) as a fuel for automotive vehicle — Specification (*first revision*)
ISO 14532 : 2014	Natural gas — Vocabulary
ISO 16960 : 2014	Natural gas — Determination of sulfur compounds — Determination of total sulfur by oxidative microcoulometry method
ISO 20729 : 2017	Natural gas — Determination of sulfur compounds — Determination of total sulfur content by ultraviolet fluorescence method
ASTM D5504-20	Standard test method for determination of sulfur compounds in natural gas and gaseous fuels by gas chromatography and chemiluminescence

ANNEX B

(*Foreword*)

COMMITTEE COMPOSITION

Petroleum and their Related Products of Synthetic or Biological or Natural Origin Sectional Committee, PCD 03

Organization	*Representative(s)*
CSIR - Indian Institute of Petroleum, Dehradun	DR HARENDER SINGH BISHT **(*Chairperson*)**
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असाधारण
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भाग III—खण्ड 4
PART III—Section 4

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भारतीय मानक ब्यूरो

(उपभोक्ता मामले विभाग)

अधिसूचना

नई दिल्ली, 14 अगस्त, 2025

संदर्भ: HQ-PUB013/1/2020-PUB-BIS(1309)— भारतीय मानक ब्यूरो नियम, 2018 के नियम 15 के उपनियम (1) के अनुसरण में भारतीय मानक ब्यूरो एतदद्वारा अधिसूचित करता है की जिन भारतीय मानकों के विवरण इसमें संलग्न अनूसूची के द्वितीय स्तंभ में दिये गये हैं, तीसरे स्तंभ में इंगित तिथि को स्थापित हो गये हैं| चौथे स्तंभ में दिये गये मानकों के विवरण, यदि कोई हो तो वे भी साथ-साथ लागू रहेंगे जब तक वे पाँचवें स्तंभ में इंगित तिथि को वापस लिए जाने हैं|

अनुसूची

क्रम सं.	स्थापित भारतीय मानकों की संख्या, वर्ष तथा शीर्षक	प्रतिस्थापन तिथि	भारतीय मानकों, यदि वापस लिए जाने हैं, की संख्या, वर्ष तथा शीर्षक	वापस होने की तिथि
(1)	(2)	(3)	(4)	(5)
1	आई एस 1447 (भाग 4) : 2025 पेट्रोलियम और इसके उत्पाद — नमूनाकरण पद्धतियाँ भाग 4	09 अगस्त 2025	आई एस 1447 (भाग 4) : 1989 पेट्रोलियम और इसके उत्पाद — परीक्षण पद्धतियाँ	09 फरवरी

	प्रयोगशाला विश्लेषण के लिए पेट्रोलियम कोक का नमूना तैयार करना (दूसरा पुनरीक्षण)		भाग 4 प्रयोगशाला विश्लेषण के लिए पेट्रोलियम कोक का नमूना तैयार करना (पहला पुनरीक्षण)	2026
2	आई एस 3087 : 2025 सामान्य प्रयोजनों के लिए मध्यम घनत्व की लकड़ी और अन्य लिग्नोसेल्यूलोसिक सामग्री से बने पार्टिकल बोर्ड — विशिष्टि (तीसरा पुनरीक्षण)	09 अगस्त 2025	आई एस 3087 : 2005 सामान्य प्रयोजनों के लिए लकड़ी और अन्य लिग्नोसैल्युलोसिक सामग्री के पार्टिकल बोर्ड — विशिष्टि (दूसरा पुनरीक्षण)	09 फरवरी 2026
3	आई एस 3097 : 2025 मध्यम घनत्व के लकड़ी और अन्य लिग्नोसेल्यूलोसिक सामग्री के पृष्ठावरित पार्टिकल बोर्ड — विशिष्टि (तीसरा पुनरीक्षण)	09 अगस्त 2025	आई एस 3097 : 2006 पृष्ठावरित पार्टिकल बोर्ड — विशिष्टि (दूसरा पुनरीक्षण)	09 फरवरी 2026
4	आई एस 3400 (भाग 20) : 2025 आई एस ओ 1431-1 : 2022 वल्कनीकृत रबड़ — परीक्षण पद्धतियाँ भाग 20 ओजोन तड़क से प्रतिरोधिता — स्थैतिक तनाव परीक्षण (तीसरा पुनरीक्षण)	09 अगस्त 2025	आई एस 3400 (भाग 20) : 2018 आई एस ओ 1431-1 : 2012 वल्कनीकृत रबड़ की परीक्षण पद्यतियाँ भाग 20 ओजोन तड़क से प्रतिरोधिता — स्थेतिक तनाव परीक्षण (दूसरा पुनरीक्षण)	09 फरवरी 2026
5	आई एस 4707 (भाग 2) : 2025 सौन्दर्य प्रसाधन कच्ची सामग्री और सहायक सामग्री का वर्गीकरण भाग 2 जीएनआरएएस और प्रतिबंधित घटकों की सूची (पाँचवां पुनरीक्षण)	09 अगस्त 2025	आई एस 4707 (भाग 2) : 2017 सौन्दर्य प्रसाधन कच्ची सामग्री और सहायक सामग्री का वर्गीकरण भाग 2 कच्ची सामग्री जो कि प्रसाधनों में उपभोग के लिए उपयुक्त नहीं है (चौथा पुनरीक्षण)	09 फरवरी 2026
6	आई एस 4707 (भाग 3) : 2025 सौन्दर्य प्रसाधन कच्ची सामग्री और सहायक सामग्री का वर्गीकरण भाग 3 प्रतिबंध के साथ सौन्दर्य प्रसाधन में अनुमत परिरक्षकों की सूची	09 अगस्त 2025	लागू नहीं	लागू नहीं
7	आई एस 11312 (भाग 1) : 2025 जल कूप में ड्रिलिंग में उपयोग के लिए बाह्य अपसेट ड्रिल पाइप समुच्चय — विशिष्टि भाग 1 सयुक्त ड्रिल पाइप पर कसा हुआ (पहला पुनरीक्षण)	09 अगस्त 2025	आई एस 11312 (भाग 1) – 1985 जल कूप में ड्रिलिंग में उपयोग के लिए बाह्य अपसेट ड्रिल पाइप समुच्चय के लिए विशिष्टि भाग 1 सयुक्त ड्रिल पाइप पर कसा हुआ	09 फरवरी 2026

8	आई एस 12406 : 2025 सामान्य प्रयोजनों के लिए मध्यम घनत्व के लकड़ी और अन्य लिग्नोसेल्यूलोसिक सामग्री के रेशा बोर्ड — विशिष्टि (तीसरा पुनरीक्षण)	09 अगस्त 2025	आई एस 12406 : 2021 सामान्य प्रयोजनों के लिए मध्यम घनत्व के रेशा बोर्ड — विशिष्टि (दूसरा पुनरीक्षण)	09 फरवरी 2026
9	आई एस/आई एस ओ 12509 : 2023 अर्थ-मूविंग मशीनें और उबड़-खाबड़ इलाके के ट्रक — प्रकाश, सिग्नलिंग और मार्किंग लाइटें और प्रतिवर्ती परावर्तक (पहला पुनरीक्षण)	09 अगस्त 2025	आई एस/आई एस ओ 12509 : 2004 मृदा संचालन मशीनरी — लाइटिंग, सांकेतिक, एवं मार्गदर्शिता लाइटस एवं रिफ्लैक्स-रिफ्लैक्टर युक्तियाँ	09 फरवरी 2026
10	आई एस 12823 : 2025 मध्यम घनत्व के लकड़ी और अन्य लिग्नोसेल्यूलोसिक सामग्री के पूर्व-लेमिनेटेड पार्टिकल बोर्ड — विशिष्टि (दूसरा पुनरीक्षण)	09 अगस्त 2025	आई एस 12823 : 2015 लकड़ी और अन्य लिग्नौसेल्युलोसिक सामग्री से पूर्वपरतकृत पार्टिकल बोर्ड — विशिष्टि (पहला पुनरीक्षण)	09 फरवरी 2026
11	आई एस 14587 : 2025 मध्यम घनत्व की लकड़ी और अन्य लिग्नोसेल्यूलोसिक सामग्री के पूर्व-लेमिनेटेड रेशा बोर्ड — विशिष्टि (दूसरा पुनरीक्षण)	09 अगस्त 2025	आई एस 14587 : 2023 मध्यम घनत्व के पूर्व-लेमिनेटेड फाइबर बोर्ड — विशिष्टि (पहला पुनरीक्षण)	09 फरवरी 2026
12	आई एस 16087 : 2025 बायोगैस (बायोमीथेन) — विशिष्टि (दूसरा पुनरीक्षण)	09 अगस्त 2025	आई एस 16087 : 2016 बायो गैस (बायो मीथेन) — विशिष्टि (पहला पुनरीक्षण)	09 फरवरी 2026
13	आई एस 18480 : 2025 सेल्फ-टैपिंग पेंच — विशिष्टि (पहला पुनरीक्षण)	09 अगस्त 2025	आई एस 7169 : 2018 आई एस ओ 1483 : 2011 खाँचेदार, उठे हुए शंकुखनत (अंडाकार) हैड वाले टेपिंग पेंच (दूसरा पुनरीक्षण) आई एस 7170 : 2018 आई एस ओ 1482 : 2011 खाँचेदार शंकुखनित (चपटे) हैड वाले टेपिंग पेंच (दूसरा पुनरीक्षण) आई एस 7173 : 2018 आई एस ओ 1481 : 2011 खाँचेदार पैन हैड टेपिंग पेंच (दूसरा पुनरीक्षण)	09 फरवरी 2026

			आई एस 18480 (भाग 1) : 2023 आई एस ओ 7049 : 2011 क्रॉस रिसेस्ड टैपिंग पेंच भाग 1 पैन हैड	
14	आई एस 19139 : 2025 आई एस ओ 16967 : 2015 ठोस जैव ईंधन — प्रमुख तत्व ज्ञात करना — Al, Ca, Fe, Mg, P, K, Si, Na और Ti	09 अगस्त 2025	लागू नहीं	लागू नहीं

रचना सहगल,वैज्ञानिक जी एवं उप महानिदेशक (एम एस सी)

[विज्ञापन-III/4/असा./302/2025-26]

BUREAU OF INDIAN STANDARDS

(Department of Consumer Affairs)

NOTIFICATION

New Delhi, the 14th August, 2025

Ref: HQ-PUB013/1/2020-PUB-BIS(1309)— In pursuance of Sub-rule (1) of Rule (15) of the Bureau of Indian Standards Rules, 2018, the Bureau of Indian Standards hereby notifies that Indian standards, particulars of which are given in the second column of the schedule hereto annexed have been established on the date indicated against it in third column. The particulars of the standards, if any which are given in the fourth column shall also remain in force concurrently till they are withdrawn on the date indicated against them in the fifth column.

SCHEDULE

Sl No.	**No., Year & Title of the Indian Standards Established**	**Date of Establishment**	**No. , Year & Title of the Indian Standards to be Withdrawn, if any**	**Date of Withdrawal**
(1)	**(2)**	**(3)**	**(4)**	**(5)**
1	IS 1447 (Part 4) : 2025 Petroleum and Its Products — Methods of Sampling Part 4 Sampling of Petroleum Coke for Laboratory Analysis (Second Revision)	09 August 2025	IS 1447 (Part 4) : 1989 Petroleum and Its Products — Methods of Sampling Part 4 Sampling of Petroleum Coke for Laboratory Analysis (First Revision)	09 February 2026
2	IS 3087 : 2025 Medium Density Particle Boards of Wood and other Lignocellulosic Materials for General Purpose — Specification (Third Revision)	09 August 2025	IS 3087 : 2005 Particle Boards of Wood and other Lignocellulosic Materials (Medium Density) for General Purpose — Specification (Second Revision)	09 February 2026

3	IS 3097 : 2025 Veneered Medium Density Particle Boards from Wood and other Lignocellulosic Material — Specification (Third Revision)	09 August 2025	IS 3097 : 2006 Veneered Particle Boards — Specification (Second Revision)	09 February 2026
4	IS 3400 (Part 20) : 2025 ISO 1431-1 : 2022 Vulcanized Rubber — Methods of Test Part 20 Resistance to Ozone Cracking — Static Strain Test (Third Revision)	09 August 2025	IS 3400 (Part 20) : 2018 ISO 1431-1 : 2012 Methods of Test for Vulcanized Rubbers Part 20 Resistance to Ozone Cracking — Static Strain Test (Second Revision)	09 February 2026
5	IS 4707 (Part 2) : 2025 Classification of Cosmetic Raw Materials and Adjuncts Part 2 List of GNRAS and Restricted Ingredients (Fifth Revision)	09 August 2025	IS 4707 (Part 2) : 2017 Classification of Cosmetic Raw Materials and Adjuncts Part 2 List of Raw Materials Generally not Recognized as Safe for Use in Cosmetics (Fourth Revision)	09 February 2026
6	IS 4707 (Part 3) : 2025 Classification of Cosmetic Raw Materials and Adjuncts Part 3 List of Preservatives Allowed in Cosmetics with Restriction	09 August 2025	NA	NA
7	IS 11312 (Part 1) : 2025 External Upset Drill Pipe Assemblies for Use in Water Well Drilling — Specification Part 1 Screwed on Joints Drill Pipe (First Revision)	09 August 2025	IS 11312 (Part 1) – 1985 Specification for External Upset Drill Pipe Assemblies for Use in Water Well Drilling Part 1 Screwed on Joints Drill Pipe	09 February 2026
8	IS 12406 : 2025 Medium Density Fibre Boards of Wood and Other Lignocellulosic Materials for General Purpose — Specification (Third Revision)	09 August 2025	IS 12406 : 2021 Medium Density Fibre Boards for General Purpose — Specification (Second Revision)	09 February 2026
9	IS/ISO 12509 : 2023 Earth-Moving Machinery and Rough-Terrain Trucks — Lighting, Signalling and Marking Lights and Reflex Reflectors (First Revision)	09 August 2025	IS/ISO 12509 : 2004 Earth-Moving Machinery — Lighting, Signalling and Marking Lights and Reflex-Reflector Devices	09 February 2026
10	IS 12823 : 2025 Prelaminated Medium Density Particle Boards from Wood and Other Lignocellulosic Material — Specification (Second Revision)	09 August 2025	IS 12823 : 2015 Prelaminated Particle Boards from Wood and other Lignocellulosic Material — Specification (First Revision)	09 February 2026
11	IS 14587 : 2025 Prelaminated Medium Density Fibre Boards of Wood and Other	09 August 2025	IS 14587 : 2023 Prelaminated Medium Density Fibre Board —	09 February 2026

	Lignocellulosic Materials — Specification (Second Revision)		Specification (First Revision)	
12	IS 16087 : 2025 Biogas (Biomethane) — Specification (Second Revision)	09 August 2025	IS 16087 : 2016 Biogas (Biomethane) — Specification (First Revision)	09 February 2026
13	IS 18480 : 2025 Self-Tapping Screws — Specification (First Revision)	09 August 2025	IS 7169 : 2018 ISO 1483 : 2011 Slotted Raised Countersunk (Oval) Head Tapping Screws (Second Revision) IS 7170 : 2018 ISO 1482 : 2011 Slotted Countersunk (Flat) Head Tapping Screws (Second Revision) IS 7173 : 2018 ISO 1481 : 2011 Slotted Pan Head Tapping Screws (Second Revision) IS 18480 (Part 1) : 2023 ISO 7049 : 2011 Cross Recessed Tapping Screws Part 1 Pan Head	09 February 2026
14	IS 19139 : 2025 ISO 16967 : 2015 Solid Biofuels — Determination of Major Elements — AI, Ca, Fe, Mg, P, K, Si Na and Ti	09 August 2025	NA	NA

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