



**National Accreditation Board for
Testing and Calibration Laboratories**
(A Constituent Board of Quality Council of India)



CERTIFICATE OF ACCREDITATION

ALCHEMIE GASES & CHEMICALS PVT. LTD.

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2005

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

Plot No. T-112, MIDC, Tarapur, Dist: Palghar, Maharashtra

in the field of

TESTING

Certificate Number TC-7176 (in lieu of 1754)

Issue Date 23/04/2018

Valid Until 22/04/2020

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.

(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Signed for and on behalf of NABL

N. Venkateswaran
Program Director



89076970100030001231

Anil Relia
Chief Executive Officer



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SCOPE OF ACCREDITATION

Laboratory Alchemie Gases & Chemicals Pvt. Ltd., Plot No. T-112, MIDC, Tarapur, Dist: Palghar, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7176 (in lieu of T-1754) **Page 1 of 2**

Validity 23.04.2018 to 22.04.2020 **Last Amended on --**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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CHEMICAL TESTING

I.	GASES			
1.	Natural Gas Mixture	Nitrogen	IS 15130 (Part 5):2002/ ISO 6974-5:2000	0.1% to 12%
		Carbon Dioxide		0.05% to 8%
		Methane		64% to 100%
		Ethane		0.1% to 14%
		Propane		0.05% to 8%
		Iso-Butane		0.01% to 1.2%
		N-Butane		0.01% to 1.2%
		Neo-Pentane		0.005% to 0.50%
		Iso-Pentane		0.005% to 0.50%
		N-Pentane		0.005% to 0.50%
		N-Hexane	0.005% to 0.50%	
		2,2-Dimethylbutane	ISO 23874:2006	0.0001% to 0.10%
		2-Methylpentane		0.0001% to 0.10%
		3-Methylpentane		0.0001% to 0.10%
		N-Hexane		0.0001% to 0.50%
		Benzene		0.0001% to 0.10%
		N-Heptane		0.0001% to 0.10%
		Toluene		0.0001% to 0.10%
		N-Octane		0.0001% to 0.05%
		N-Nonane		0.0001% to 0.02%
		N-Decane		0.0001% to 0.01%
		Superior Calorific Value	IS 14504:1998/ ISO 6976:1995	30 MJ/Sm ³ to 42 MJ/Sm ³
		Inferior Calorific Value		30 MJ/Sm ³ to 42 MJ/Sm ³
		Relative Density		0.5000 to 0.9000 Decimal
		Density		0.6000 to 1.200kg/Sm ³
		Wobbe Index		42 MJ/Sm ³ to 55 MJ/Sm ³
		Net Heating Value	ASTM D3588:98 (R-2011)	900 Btu/ft ³ to 1200 Btu/ft ³ (For Real Gas)

Rini Narayan
Rini Narayan
Convenor

N. Venkateswaran
N. Venkateswaran
Program Director



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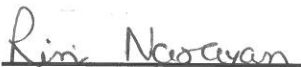
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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Gross Heating Value	ASTM D3588:98 (R-2011)	900 Btu/ft ³ to 1200 Btu/ft ³ (For Real Gas)
		Net Heating Value		900 Btu/ft ³ to 1200 Btu/ft ³ (For Ideal Gas)
		Gross Heating Value		900 Btu/ft ³ to 1200 Btu/ft ³ (For Ideal Gas)
2.	Gas Mixtures	Methane	ASTM D7833-14	0.005% to 2.6%
		Propane		0.005% to 1.65%
		Carbon Dioxide		0.05% to 21.0%
		Oxygen		1.0% to 25.0%
		Carbon Monoxide		0.005% to 12.0%
		Nitric Oxide	ASTM D3824-12	0.003% to 0.4%
		Helium	AGCPL/QSP/30 Current Issue 03, Current Issue Dated 28/07/2015	8.0% to 10.0%


Rini Narayan
Convenor


N. Venkateswaran
Program Director