CERTIFICATE OF ACCREDITATION

This is to attest that

VADILAL GASES LIMITED

PLOT NO 138 AND 139, POR, RAMANGAMDI, GIDC ESTATE
DISTRICT VADODARA 391243
GUJARAT, REPUBLIC OF INDIA

Reference Material Producer - RMP-100

has met the requirements of AC784, *IAS Accreditation Criteria for Reference material producers*, and has demonstrated compliance with ISO 17034:2016, *General requirements for the competence of reference material producers.* This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date September 26, 2024

IAS ACCREDITED

International Accreditation Service

Issued under the authority of IAS management

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

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GUJARAT, REPUBLIC OF INDIA
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Accredited to ISO 17034:2016 *Effective Date September 26, 2024*

RMP CATEGORY	TYPE (CRM/RM)	MATRIX/ *ARTEFACT*	*PROPERTY CERTIFIED (ANALYTE/ PARAME-TER/ IDENTITY)*	*RANGE (IF APPLICABLE)*	*CHARACTERIZA-TION PROCEDURE/ TECHNIQUE USED*
Chemical composition Gas mix-tures	CRM	Analysed Gases, Gas mixtures	Carbon Monoxide (CO) in Nitrogen/Air	*10 µmol/mol to 500 µmol/mol*	Value transfer from an RM to a closely matched candidate RM as per gravimet-ric Method (RMQP/18: Proce-dure for undertaking characterization which is based on BS EN ISO 6142-1:2015: Preparation of calibration gas mixtures, Part1: Gravimetric method for Class 1 mixtures and Amendment 1: 2020-12)
			Carbon Dioxide (CO2) in Nitrogen/Air	*0.05 % to 25.00 %*	
			Oxygen (O2) in Nitrogen	*0.05 % to 25.00 %*	
			Nitric Oxide (NO) in Nitrogen	*1 µmol/mol to 2000 µmol/mol*	

RMP CATEGORY	TYPE (CRM/RM)	MATRIX/ *ARTEFACT*	*PROPERTY CERTIFIED (ANALYTE/ PARAMETER/ IDENTITY)*	*RANGE (IF APPLICABLE)*	*CHARACTERIZATION PROCEDURE/ TECHNIQUE USED*
Chemical composition Gas mixtures	CRM	Analysed Gases, Natural Gas mixtures	Nitrogen (N2)	*0.1 % to 5.0 %*	Value transfer from an RM to a closely matched candidate RM as per gravimetric Method (RMQP/18: Procedure for undertaking characterization which is based on BS EN ISO 6142-1:2015: Preparation of calibration gas mixtures, Part1: Gravimetric method for Class 1 mixtures and Amendment 1:2020-12)
			Carbon Dioxide (CO2)	*0.1 % to 4.0 %*	
			Ethane (C2)	*3.0 % to 8.0 %*	
			Propane (C3)	*0.5 % to 5.0 %*	
			iso-butane (IC4)	*0.1 % to 2.0 %*	
			n-butane (NC4)	*0.1 % to 2.0 %*	
			Neo-pentane	*0.05 % to 0.2 %*	
			Iso-pentane (IC5)	*0.05 % to 0.5 %*	
			n-pentane (NC5)	*0.05 % to 0.5 %*	
			N – hexane (NC6)	*0.05 % to 0.2 %*	
			Methane (C1)	*74.0 % to 96.0 %*	