

Quality And Accreditation Institute

Centre for International Accreditation



Certificate of Accreditation

Lucknow Smart Laboratory (Calibration)
Indian Oil Corporation Limited (Marketing Division)

Near Railway Station, Amousi

Lucknow-226008, Uttar Pradesh, India

has been assessed and accredited in accordance with the Standard

ISO/IEC 17025:2017

“General Requirements for the Competence of Testing and Calibration Laboratories”

In the field of

Calibration

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued compliance to the above standard & any other requirements specified by QAI.



QAI/CIA/CL/2026/0009

Valid from: 05 October 2026

Valid until: 04 October 2028

Dr. Bhupendra Kumar Rana
Chief Executive Officer

Prof. Vikram Kumar
Chair, CIA



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Scope of Accreditation

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Valid from: 05 October 2026

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Accreditation Standard: ISO/IEC 17025:2017

Mechanical Discipline- Density & Viscosity				
Sl. No.	Measurand or Reference Material/ Type of Instrument or Material to be Calibrated or Measured/ Quantity Measured/ Instrument	Calibration or Measurement Method or Procedure	Measurement Range and Additional Parameters Where Applicable (Range and Frequency)	*Calibration and Measurement Capability (CMC) ($\pm$)
At Permanent Laboratory				
1.	Density Hydrometer	Using Standard Hydrometer and density Liquids by Comparison Method as per IS 3104 (Part-II)-1982	0.700-0.750 g/cm ³	± 0.0009 g/cm ³
2.	Density Hydrometer	Using Standard Hydrometer and density Liquids by Comparison Method as per IS 3104 (Part-II)-1982	0.750-0.800 g/cm ³	± 0.0009 g/cm ³
3.	Density Hydrometer	Using Standard Hydrometer and density Liquids by Comparison Method as per IS 3104 (Part-II)-1982	0.800-0.850 g/cm ³	± 0.0009 g/cm ³



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Thermal Discipline- Temperature				
Sl. No.	Measurand or Reference Material/ Type of Instrument or Material to be Calibrated or Measured/ Quantity Measured/ Instrument	Calibration or Measurement Method or Procedure	Measurement Range and Additional Parameters Where Applicable (Range and Frequency)	*Calibration and Measurement Capability (CMC) ($\pm$)
At Permanent Laboratory				
1.	Liquid in Glass Thermometer	Using RTD with Temperature Indicator & Liquid bath by Comparison Method as per IS 6274-1971	-10 to 0°C	$\pm 0.35^\circ\text{C}$
2.	Liquid in Glass Thermometer	Using RTD with Temperature Indicator & Liquid bath by Comparison Method as per IS 6274-1971	0 to 20°C	$\pm 0.40^\circ\text{C}$
3.	Liquid in Glass Thermometer	Using RTD with Temperature Indicator & Liquid bath by Comparison Method as per IS 6274-1971	20 to 50°C	$\pm 0.43^\circ\text{C}$

* CMCs represent expanded uncertainties expressed at approximately the 95% level of confidence, using a coverage factor of $k = 2$.

