



**FARELABS**

FOOD ANALYSIS & RESEARCH LABORATORY

A commitment for a better tomorrow

TESTING

CALIBRATION

PROFICIENCY TESTING

**CALIBRATION**



# Calibration Division (A brief Profile)

FARE Labs Private Limited, Gurgaon (Calibration Division) was established on 8<sup>th</sup> January 2017, at Gurgaon. FARE Labs has been accredited as per ISO/IEC17025:2005 by National Accreditation Board for Testing & Calibration (NABL) in June 2018. FARE Labs is having highly accurate world class instruments & Measurement Standards directly traceable to NPL, India & NMI's.

FARE Labs having matching scope with NMI's in many verticals. We are having unique calibration facility for high temperature radiation thermometry above 1000°C to 3000°C. FARE Labs has also specialized calibration facility for high capacity tank volumes upto 6500 kL.



FARE Labs Calibration division consists of following three verticals :

- Thermal
- Mechanical
- Electrotechnical

## Thermal Metrology

Liquid-in-Glass Thermometry having calibration range from -80°C to 300°C

Resistance Thermometry consisting of PRTs, RTDs Thermometers and Digital thermometers with calibration range from -196°C to 660°C

Thermocouple Thermometry having Noble and Base metal TCs with temperature range from 0°C to 1600°C.

Infrared Radiation Pyrometry with IR-thermometers, thermal imagers & Optical Pyrometers having calibration range from -15°C to 3000°C.

Hygrometry consisting Humidity meters and hygrometers with calibration facility in the range from 10% RH to 95% RH along with temperature range from 10°C to 50°C.



## Mechanical Metrology

- Mass calibration facility having range from 1mg to 300 kg with balance of minimum readability of 1  $\mu$ g.
- Volume calibration facility consisting of 1  $\mu$ L to 500 L.
- Also NABL accredited capability for calibration of large volume tanks upto 6500 kL.
- Density calibration facility from 0.6 g/mL to 2 g/mL.
- Viscosity in the range from 1.0 mm<sup>2</sup>/s<sup>2</sup> to 70,000 mm<sup>2</sup>/s<sup>2</sup> and Viscometer 0.001 mm<sup>2</sup>/s<sup>2</sup> to 100 mm<sup>2</sup>/s<sup>2</sup>.
- Pressure calibration capability from -1 bar (kg/cm<sup>2</sup>) to 700 bar (kg/cm<sup>2</sup>).



## Electrotechnical

- For source and measure modes for calibration of AC/DC voltage (1 mV to 1020 V).
- For source and measure mode for calibration of AC/DC current (100  $\mu$ A to 20 A).
- For source and measure mode for calibration of AC/DC power.
- For source and measure mode for calibration of Resistance (1  $\Omega$  to 10 G $\Omega$ ).
- For source and measure mode for calibration of Frequency (10 Hz to 1 MHz).
- For source and measure mode for calibration of capacitance (220pF to 1 $\mu$ F).
- For source and measure mode for calibration of temperature simulation for all RTDs & thermocouples.



# About

FARE Labs Private Limited founded in 1999, based out of Gurgaon is a leading and prominent Commercial Testing, Calibration and Proficiency Testing Services providing laboratory institution of the country. FARE Labs is NABL (ISO/IEC 17025:2005) accredited and recognized by Food Safety and Standard Authority of India (FSSAI), Bureau of Indian Standards (BIS), Atomic Energy Regulation Board (AERB), Department of Scientific and Industrial Research (DSIR), Central Pollution Control Board (CPCB), State Pollution Control Board, Ministry of Environment and Forest (MOEF, GOI), Ministry of Food processing Industries (MOFPI, GOI), Ministry of Commerce and industry, GOI, Ministry of Agriculture and Farmers Welfare, GOI.

FARE Labs is Certified by ISO 9001:2015, ISO 14001:2004, OHSAS 18001:2001, ISO/IEC 27001:2013.

FARE Labs major business divisions are Testing, Calibration and Proficiency Testing. All the aforesaid three divisions in addition to the main business operation are further diversified into the predominant segment that include Research & Development and Consultancy & Training. Testing divisions primary industry vertical cover Food and Agri, Pharma, environment, Energy. Calibration division's industry verticals encompass Mechanical, Electrical, Thermal and Chemical. Proficiency Testing industry verticals comprise of testing and calibration laboratories.



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