



F. No. LB/99/7/2021-INST LAB-HO-CPCB-HO/Pvt./

Date: 31st May 2024

Recognition Letter

To,

The Head of Laboratory,
M/s Shriram Institute for Industrial Research,
14 & 15 Sadar Mangala Industrial Area,
White Field Road, Bengaluru-560048,
Karnataka.

Subject: Recognition of M/s Shriram Institute for Industrial Research, 14 & 15 Sadar Mangala Industrial Area, White Field Road, Bengaluru-560048, Karnataka as Environmental laboratory under the Environmental (Protection) Act- 1986 – reg.

Sir,

With reference to your application dated 24/06/2023 along with acceptance of the terms & conditions of the guidelines for recognition of environmental laboratories under the Environmental (Protection) Act, 1986, submitted to Central Pollution Control Board (CPCB), the Competent Authority of CPCB has accorded approval for recognition of Environmental laboratory and Govt. Analysts. Subsequently, M/s Shriram Institute for Industrial Research, 14 & 15 Sadar Mangala Industrial Area, White Field Road, Bengaluru-560048, Karnataka shall be notified considering the current requirement of mandatory accreditation / certifications of the laboratory with a validity up to 28/12/2025 in the Gazette Notification of India.

2. The following analysts have been approved as Government Analysts:

1. Sh. T. Udayshankar
2. Sh. B. Deivarajan
3. Ms. Lakshmi Vijayan

3. The laboratory should compulsorily follow the accepted terms and conditions and may undertake the following tests:

- a) **Physical Tests**-Conductivity, Colour, pH, Fixed & Volatile Solids, Total Solids, Total Dissolved Solids, Total Suspended Solids, Turbidity, Temperature, Velocity & Discharge Measurement of Industrial Effluent Stream, Flocculation Test, Odour, Salinity and Settleable Solids.
- b) **Inorganic (General and Non-metallic)**: Acidity, Alkalinity, Ammonical Nitrogen, Chloride, Chlorine Residual, Dissolved Oxygen, Fluoride, Total Hardness, Total Kjeldahl Nitrogen (TKN), Nitrite Nitrogen, Nitrate Nitrogen, Phosphate, Sulphate, Chlorine Demand, Cyanide, Silica, Sulphide and Sulphite.
- c) **Inorganic (Trace Metals)**: Boron, Cadmium, Calcium, Total Chromium, Chromium Hexavalent, Copper, Iron, Lead, Magnesium, Mercury, Nickel, Potassium, Sodium, Sodium Absorption Ratio, Zinc, Arsenic, Aluminium, Barium, Manganese, Silver and Selenium.
- d) **Organics (General) and Trace Organics**: Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Oil and Grease, Phenolic Compounds, Pesticides (each) (Organo-Chlorine and Organo Nitrogen-Phosphorus), Surfactants, Poly-Chlorinated Biphenyl (PCBs) each, Polynuclear Aromatic Hydrocarbon (PAH) each and Total Organic Carbon.
- e) **Microbiological Test**: Total Coliform, Faecal Coliform, *E. coli*, *Faecal Streptococci*, Total Plate Count and Enterococcus.
- f) **Toxicological Tests**: Bioassay Method for Evaluation of Toxicity using Fish, Measurement of Toxicity Factor Using Zebra fish (Dimensionless Toxicity Test)

Contd.

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- g) **Characterization of Hazardous Waste:** Preparation of Leachate (TCLP/Water extract), Toxicity and Measurement of Heavy Metals/ Pesticides in the Waste and Leachate.
 - h) **Soil/Sludge/Sediment and Solid Waste:** Boron, Cation Exchange Capacity (CEC), Electrical Conductivity, Nitrogen (Available), Organic Carbon/Matter (Chemical Method pH, Phosphorous (Available), Phosphate (Ortho), Phosphate (Total), Potassium, SAR in Soil Extract, Sodium, Soil moisture, TKN, Calorific Value, Ammonia, Bicarbonate, Calcium, Calcium Carbonate, Chloride, Gypsum Requirement, Magnesium, PAH, Potash (available) and Sulphate.
 - i) **Ambient Air/ Fugitive Emissions:** Nitrogen Dioxide (NO₂), Sulphur Dioxide (SO₂), Total Suspended Particulate Matter, Respirable Suspended Particulate Matter PM₁₀, Ammonia, Carbon Monoxide, Chlorine, Fluoride, Lead, Ozone, Benzene Toluene Xylene (BTX), Polycyclic Aromatic Hydrocarbon (PAH) Benzo-a-Pyrene & others and PM_{2.5}.
 - j) **Stack Gases/ Source Emission:** Particulate Matter, Sulphur Dioxide, Velocity & Flow, Carbon Dioxide, Carbon Monoxide, Temperature, Oxygen, Oxides of Nitrogen, Acid Mist, Ammonia, Fluoride (Particulate), Hydrochloric Acid, Hydrogen Sulphide and Total Hydro Carbon.
 - k) **Noise Level:** Noise Level Measurement (20-140 dBa) and Ambient Noise and Source Specific Noise.
 - l) **Meteorological:** Ambient Temperature, Wind Direction, Wind Speed, Relative Humidity and Rain Fall.
4. The laboratory shall compulsorily participate in the Analytical Quality Control (AQC) Exercise conducted by the CPCB to ascertain the capability of the laboratory and analysts. The lab shall submit quarterly progress report on the sample analysis carried out to CPCB.
 5. The surprise inspection / periodic surveillance of the recognized environment laboratory will be undertaken to assess its proper functioning systematic operation and reliability of data generated at the laboratory by a Joint Team as per the Notification.
 6. The laboratory should have the mandatory requisite accreditation and certificate of the ISO: 17025 and ISO: 45001 as per rules. This recognition is subject to such accreditations and renewals as applicable and in case of serious non-compliance of any of the terms and conditions, the laboratory may be black listed for a minimum period of two years and civil/criminal proceedings, as applicable, may be initiated for performing functions on behalf of the Government in an unauthorized manner.
 7. The laboratory is required to apply for further renewal of recognition through online using CPCB web portal (<https://cpcbepalab.in/epalab>) before expiry of recognition with mandatory accreditation / certification concerned.

Yours faithfully,

K. R. Ranganathan 31/5/24

(Dr. K. Ranganathan)
Scientist-E & Divisional Head
Instrumentation laboratory

डॉ. के. रंगनाथन / Dr. K. Ranganathan
वैज्ञानिक 'ई' / Scientist 'E'
प्रभाषी जल एवं उपकरणिय प्रयोगशाला
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Central Pollution Control Board
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार
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