



F.No. LB/99/7/2021-INST LAB-HO-CPCB-HO/Pvt./ 9120

Provisional Certificate

To,

Head of Laboratory,
M/s Delhi Analytical Research Laboratory,
Plot no.-2 (A-2), Timber Block, Jhilmil Industrial Area,
Delhi-110095.

Subject: Recognition of M/s Delhi Analytical Research Laboratory, Plot no.-2 (A-2), Timber Block, Jhilmil Industrial Area, Delhi-110095 as Environmental laboratory under the Environmental (Protection) Act- 1986.

Sir,

I am directed to refer the online application, dated 10/08/2022 for the recognition of your laboratory under Environmental (Protection) Act, 1986. Based on the recommendations of the concerned Division, approval of Competent Authority for recognition of Environmental laboratories and your acceptance of the revised terms and conditions at Annexure-III & IV of the guidelines for recognition of environmental laboratories, CPCB approves the renewal of recognition **M/s Delhi Analytical Research Laboratory, Plot no.-2 (A-2), Timber Block, Jhilmil Industrial Area, Delhi-110095** and shall be notified in the Gazette of India. Considering the current requirement of mandatory accreditation/ certifications of the laboratory, **this recognition shall be valid up to 24/08/2024.**

2. As sought in the aforementioned application, **M/s Delhi Analytical Research Laboratory, Plot no.-2 (A-2), Timber Block, Jhilmil Industrial Area, Delhi-110095** may undertake the following tests:

- i. **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, Odour, Salinity and Sludge Volume Index.
- ii. **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, Silica, Cyanide and Sulphide.
- iii. **Inorganic (Trace Metals)**: Boron, Cadmium, Calcium, Total Chromium, Chromium Hexavalent, Copper, Iron, Lead, Magnesium, Mercury, Nickel, Potassium, Sodium, Sodium Absorption Ratio, Zinc, Arsenic, Manganese, Selenium and Silver.
- iv. **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), Total Organic Carbon, Poly-Chlorinated Biphenyl (PCB's) each and Carbon/Nitrogen Ratio.
- v. **Microbiological Test**: Total Coliform, Faecal Coliform, *E. coli*, *Faecal Streptococci* and Total Plate Count.
- vi. **Toxicological Tests**: Bioassay Method for Evaluation of Toxicity Using Fish and Measurement of Toxicity Factor using Zebra Fish (Dimensionless Toxicity Test).
- vii. **Biological Test**: Benthic Organism Identification and Count, Macrophytic Identification and Planktonic Identification Count.
- viii. **Characterization of Hazardous Waste**: Corrosivity, Ignibility (Flash Point) and Reactivity.
- ix. **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

Contd.

Extract, Sodium, Soil moisture, TKN, Calorific Value, Calcium, Chloride, Colour, Magnesium, Nitrate, Nitrite, Potash (Available), Sulphate, TOC, Total Water Soluble Salt and Water Holding Capacity.

- x. **Ambient Air/ Fugitive Emissions:** Nitrogen Dioxide (NO₂), Sulphur Dioxide (SO₂), Total Suspended Particulate Matter, Respirable Suspended Particulate Matter PM₁₀, Ammonia, Carbon Monoxide, Lead, Ozone, Polycyclic Aromatic Hydrocarbon (PAH), Benzo-a-Pyrene & others and PM_{2.5}.
- xi. **Stack Gases/ Source Emission:** Particulate Matter, Sulphur Dioxide, Velocity & Flow, Carbon Dioxide, Carbon Monoxide, Temperature, Oxygen, Oxides of Nitrogen, Acid Mist, Ammonia, Chlorine, Fluoride (Gaseous) and Hydrogen Sulphide.
- xii. **Noise Level:** Noise Level Measurement (20-140 dBa) and Ambient Noise and Source Specific Noise.
- xiii. **Meteorological:** Ambient Temperature, Wind Direction, Wind Speed, Relative Humidity, and Rainfall.

3. Further, the following analysts have been approved as Government Analysts.

- i. Dr. Priyanka Mishra
- ii. Sh. Avinash Dixit
- iii. Ms. Ritu Choudhary

4. The laboratory shall compulsorily participate in the Analytical Quality Exercise conducted by the Central Pollution Control Board (CPCB) to ascertain the capability of the laboratory and analysis carried out and shall submit quarterly progress report to CPCB.
5. The surprise inspection/periodic surveillance of the recognized environment laboratory will be undertaken by CPCB to assess its proper functioning systematic operation and reliability of data generated at the laboratory.
6. It is also mandatory for the laboratory to have requisite accreditations of the ISO: 17025 and ISO:45001 and its renewal as per accreditation rules. This recognition is subject to such accreditations and renewals as applicable. The laboratory is required to apply online for further renewal of recognition through CPCB web portal after renewal of the mandatory accreditations / certifications concerned.
7. The laboratory should compulsorily follow the accepted terms and conditions. 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.

Yours faithfully,

डॉ. के. रंगनथन / Dr. K. Ranganathan
वैज्ञानिक 'E' / Scientist 'E'
प्रवाही जल एवं उपकरणिय प्रयोगशाला
Dr. Head-Water & Instrumentation Laboratory
केंद्रीय प्रदूषण नियंत्रण बोर्ड
Central Pollution Control Board
(Min. Environment, Forest & Climate Change, Govt. of India)
परिवेश भवन, पूर्वी अर्जुन नगर, दिल्ली-110032
Parvash Bhawan, East Arjun Nagar, Delhi-110032

K. R. 2/23
28/1/23
(Dr. K. Ranganathan)
Scientist-E & Divisional Head
Instrumentation laboratory