



F. No. LB/99/7/2021-INST LAB-HO-CPCB-HO/ Govt-84

MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE GOVT. OF INDIA

Dated: 30th Dec. 2023

Jan.

Provisional Letter

To,

The Management Director
M/s Environmental Laboratory,
Central Mine Planning & Design Institute Ltd. CMPDL), CMPDI, HQ,
Gondwana Place, Kanke Road, Ranchi-834008,
Jharkhand.

Subject: Recognition of M/s Environmental Laboratory Central Mine Planning & Design Institute Ltd. CMPDL), CMPDI, HQ, Gondwana Place, Kanke Road, Ranchi-834008, Jharkhand, as Environmental laboratory under the Environmental (Protection) Act-1986.

Sir,

I am directed to refer the application, dated 15.06.2021 for the recognition of your laboratory Environmental (Protection) Act, 1986. Based on the recommendations of the expert committee for recognition of Environmental laboratories in its 67th meeting held on 14th & 20th January 2022 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 of **M/s Environmental Laboratory Central Mine Planning & Design Institute Ltd. CMPDL), CMPDI, HQ, Gondwana Place, Kanke Road, Ranchi-834008, Jharkhand**, 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 15/12/2024**.

2. As sought in your aforementioned **M/s Environmental Laboratory Central Mine Planning & Design Institute Ltd. CMPDL), CMPDI, HQ, Gondwana Place, Kanke Road, Ranchi-834008, Jharkhand**, 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 Settleable solids.
- ii. **Inorganic (General and Non-metallic):** Acidity, Alkalinity, Ammoniacal Nitrogen, Chloride, Chlorine residual, Dissolved Oxygen, Fluoride, Total hardness, Total Kjeldahl Nitrogen (TKN), Nitrite Nitrogen, Nitrate Nitrogen, Phosphate, Sulphate, Chlorine Demand, Sulphite 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, Aluminium, Manganese and Selenium.
- iv. **Organics (General) and Trace Organics:** Bio-chemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Oil and Grease, Phenolic Compounds, Pesticide (each) (Organic-Chlorine and Organic Nitrogen-Phosphorus), Tannin & Lignin, Organic Carbon (in solid) and Carbon/Nitrogen Ratio.
- v. **Microbiological Test:** Total Coliform, Faecal Coliform, Faecal Streptococci, *E. coli* 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. **Characterization of Hazardous Waste:** Preparation of Leachate (TCLP extract/water extract), Toxicity and Measurement of Heavy Metals/ Pesticides in the Waste and Leachate.

Contd.

R.

‘परिवेश भवन’ पूर्वी अर्जुन नगर, दिल्ली-110032

Parivesh Bhawan, East Arjun Nagar, Delhi-110032

दूरभाष/Tel : 43102030, 22305792, वेबसाइट/Website : www.cpcb.nic.in

- viii. **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, Ammonia, Bicarbonate, Calcium, Calcium Carbonate, Chloride, Colour, Exchangeable Sodium Percentage (ESP), Gypsum requirement, H. Acid, Heavy Metal, Magnesium, Mechanical Soil Analysis, Nitrate, Nitrite, Potash (Available), Sulphate, Sulphur, Total Water Soluble Salt and Water Holding Capacity.
- ix. **Ambient Air/ Fugitive Emissions:** Nitrogen Dioxide (NO₂), Sulphur Dioxide (SO₂), Total Suspended Particulate Matter, Respirable Suspended Particulate Matter PM₁₀, Ammonia, Lead, Ozone and PM_{2.5}.
- x. **Stack Gases/ Source Emission:** Particulate Matter, Sulphur Dioxide, Velocity & Flow, Carbon Dioxide, Carbon Monoxide, Temperature, Oxygen, Oxides of Nitrogen, Acid Mist, Ammonia, Chlorine, Hydrogen Sulphide and Carbon Disulphide.
- xi. **Noise Level:** Noise Level Measurement (20-140 dBA) and Ambient Noise and Source Specific Noise.
- xii. **Meteorological:** Ambient Temperature, Wind Direction, Wind Speed, Relative Humidity and Rainfall.

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

- i. Dr. Vinita Arora
- ii. Sh. Prakash Chandra Jha
- iii. Sh. Amarjeet Singh

- 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,


 30/1/23
 (K. Ranganathan)
 Scientist-E & Divisional Head
 Instrumentation laboratory

डॉ. के. रंगनाथन / Dr. K. Ranganathan
 सायनिक 'ई' जलवायी विशेषज्ञ / Scientist 'E' Govt. Analyst
 केंद्रीय प्रदूषण नियंत्रण बोर्ड
 Central Pollution Control Board
 पर्यावरण, जल एवं जलवायी परिवर्तन मंत्रालय, भारत सरकार
 (Mo Environment, Forest & Climate Change, Govt. of India)
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