



F.No. LB/99/7/2021-INST LAB-HO-CPCB-HO/ Pvt-304 1124

Dated: 06th August 2021

Speed Post

To,

The Head of the Organization
M/s Prakruti Environmental Engineers
Prakruti 3rd & 4th Floor, Next to Sarsawani distributary Canal,
On Bill road, village Bill, Vadodara-391410, Gujarat India

Subject: Recognition of M/s Prakruti Environmental Engineers PRAKRUTI 3rd & 4th Floor, Next to Sarsawani distributary Canal, On Bill road, village Bill, Vadodara-391410, Gujarat India as Environmental laboratory under the Environmental (Protection) Act-1986.

Sir,

I am directed to refer to your application dated 05.11.2020 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 65th meeting held on 07.04.2021 and your acceptance of the revised terms and conditions at Annexure-III & IV of the guidelines for recognition of environmental laboratories, CPCB approves the new recognition of M/s Prakruti Environmental Engineers PRAKRUTI 3rd & 4th Floor, Next to Sarsawani distributary Canal, On Bill road, village Bill, Vadodara-391410, Gujarat India, as shall be notified in the Gazette of India. **Considering the current validity of mandatory accreditation/ certifications of the laboratory, this recognition shall be valid up to 05.08.2023.**

2. As sought in your aforementioned application M/s Prakruti Environmental Engineers PRAKRUTI 3rd & 4th Floor, Next to Sarsawani distributary Canal, On Bill road, village Bill, Vadodara-391410, Gujarat India, 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, Flocculation test (jar test), salinity, settleable solids and Sludge Volume Index (SVI).
- 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, Bromide, Silica, Cyanide and Sulphide.
- iii. **Inorganic (Trace metals) :** Boron, Cadmium, Calcium, Chromium Total, 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:** Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Oil and grease, Phenol, Pesticide (each) (Organo-chlorine and Organo nitrogen-phosphorus), Poly chlorinated biphenyl (PCBs) each, Polynuclear aromatic hydrocarbons (PAHs) each Organic Carbon (in solid) and Carbon/Nitrogen ratio.
- v. **Microbiological test:** Total Coliform, Faecal Coliform, Faecal Streptococci, E-Coli, Total plate count, enterococcus and Total Plate Count.
- vi. **Toxicological Tests:** Bioassay method for evaluation of toxicity using fish and measurement of toxicity using Daphnia or other organisms.

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- vii. **Characterization of Hazardous waste:** Preparation of leachate (TCLP/Water extract), Ignitability (Flash Point), and measurement of heavy metals/ pesticides in the waste and leachate.
 - viii. **Soil/sludge/Sediment and solid waste:** Boron, Cation Exchange Capacity (CEC), Electrical Conductivity, Nitrogen (available), organic Carbon/matter (Chemical method), pH, Phosphate (available), Phosphate (ortho), Phosphate (total), Potassium, SAR in soil extract, Sodium, Soil moisture, TKN, Calorific Value, Ammonia, calcium, calcium carbonate, Heavy metals, Magnesium, Nitrate, Nitrite, Sulphates, Sulfur and Total water soluble salt.
 - ix. **Ambient Air/ fugitive emissions:** Nitrogen Dioxide (NO₂), Sulphur Dioxide (SO₂), Total Suspended Particulate Matter, Respirable Suspended Particulate Matter PM₁₀, Ammonia, 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, hydro chloric acid and Hydrogen sulfide.
 - 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, Solar radiation and rainfall
3. Further, the following analysts have been approved for recognition as government Analysts.
- i. **Shri. Girish Manaharlal Desai,**
 - ii. **Smt. Shilpi Preshankar Gaur**
 - iii. **Smt. Ripple Prashant Vaidya**
4. The laboratory shall compulsorily participate in the Analytical Quality Exercise conducted by the Central Pollution Control Board (CPCB) at least once a Year to ascertain the capability of the laboratory and analysis carried out and shall submit quarterly progress report to CPCB.
5. The 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 (NABL)** and **ISO:45001 (OH&SMS)** and its renewal as per accreditation rules. This recognition is subject to such accreditations and renewals as applicable. **The laboratory may approach CPCB for further extension of validity of recognition after renewal of the mandatory accreditations / certifications concerned.** Such application for extension of validity may be submitted to CPCB in due advance, preferably before 6 months.

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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,



(Gurnam Singh)
Divisional Head

Instrumentation laboratory & Air laboratory

Copy to:

1. Chairman, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, New Delhi-110032
2. Member secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, New Delhi-110032
3. Member Secretary, Gujarat Pollution Control Board Paryavaran Bhavan, Sector-10A, Gandhinagar-382010.
4. Divisional Head, IT division Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, New Delhi-110032