



केन्द्रीय प्रदूषण नियंत्रण बोर्ड  
CENTRAL POLLUTION CONTROL BOARD  
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय भारत सरकार  
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE GOVT. OF INDIA

F. No. LB/99/7/2021-INST LAB-HO-CPCB-HO/ Gvt-151 | 9263

Dated: 01.12.2021

Speed Post

To,

The Chief Executive Officer  
Punjab Biotechnology Incubator  
C-134, Industrial Focal Point, Phase-VIII, SAS Nagar, Mohali,  
Punjab-160071.

Subject: Recognition of M/s Punjab Biotechnology Incubator, Mohali, Punjab, as Environmental laboratory under the Environmental (Protection) Act, 1986-reg.

Sir,

I am directed to refer to your application dated 17.03.2021 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 65<sup>th</sup> 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 renewal of recognition of M/s Punjab Biotechnology Incubator, Mohali, Punjab-160071 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 09.05.2026.

2. As sought in your aforementioned application M/s Punjab Biotechnology Incubator, Mohali, Punjab-160071 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. Odour, 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. Chlorine demand. Sulphite, Cyanide, Sulphide, Iodine, silica and Carbon dioxide.
- 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, Beryllium, Barium, Lithium, Manganese, Selenium, Silver, Strontium, Tin, Antimony, Cobalt and Vanadium.
- 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), Total organic carbon (TOC), Surfactants, Poly-chlorinated biphenyl (PCB's each and Polynuclear aromatic hydrocarbon(PAH) each, Organic Carbon (in solid) and Carbon/Nitrogen ratio.
- v. **Microbiological test**: Total Coliform, Faecal Coliform, Faecal Streptococci, E. coli, Total Plate Count and Enterococcus.
- vi. **Toxicological Tests**: Bioassay method for evaluation of toxicity using fish and Measurement of toxicity factor using zebra fish (dimensionless toxicity test).
- vii. **Biological Tests**: Benthic organism identification and count, Planktonic identification and Chlorophyll.
- viii. **Characterization of Hazardous waste**: Preparation of leachate (TCLP/Water extract), Corrosivity, Ignibility (Flash Point), Reactivity, Toxicity and measurement of heavy metals/ pesticides in the waste and leachate.

Contd.

2/12/21

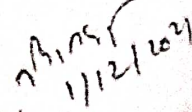
- ix. **Soil/sludge/Sediment and solid waste:** Boron. Cation Exchange Capacity (CEC). Electrical Conductivity. Nitrogen (available). organic Carbon/matter (Chemical method). pH. Phosphate (available), Phosphate (ortho), Phosphate (total). Potassium. SAR in soil extract. Sodium. Soil moisture, TKN, Calorific Value. Ammonia. Bicarbonate. Calcium. Calcium carbonate, Chloride, Colour. Exchangeable Sodium Percentage (ESP). Gypsum requirement. Humic Acid. Heavy metals. Magnesium. Mechanical Soil Analysis. Nitrate. Nitrite. PAH. Pesticide. Potash (Available). Sulphates. Sulphur. TOC. Total water soluble salt and Water Holding Capacity.
- x. **Ambient Air/ fugitive emissions:** Nitrogen Dioxide (NO<sub>2</sub>). Sulphur Dioxide (SO<sub>2</sub>). Total Suspended Particulate Matter. Respirable Suspended Particulate Matter PM<sub>10</sub>. Ammonia. Carbon monoxide. Chlorine. Fluoride. Non methane hydrocarbon. Lead. Ozone. Benzene Toluene Xylene (BTX), Polycyclic aromatic hydrocarbon (PAH) Benzo-a-pyrine & others. PM<sub>2.5</sub> and Volatile organic carbon.
- 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), Fluoride (particulate) and Hydrochloric acid.
- 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 for recognition as government Analysts.

- i. Dr. (Mrs ) Ajit Dua
- ii. Dr. Vandana Awasthi
- iii. Sh. Santosh Kumar 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 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.
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,

  
 Namita Mishra  
 Scientist-D & Divisional Head  
 Instrumentation laboratory