



Date: 14th December 2023

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

7506

Recognition Letter

To,

**The Head of Laboratory,
M/s Sadekar Enviro Engineers Private Limited,
B-306/307, Plot No.61, Patel Estate,
Reis Magos, Verem, Alto, Old Betim Road,
Bardez, Porvorim Panaji, Goa- 403101.**

Subject: Recognition of M/s Sadekar Enviro Engineers Private Limited, B-306/307, Plot No.61, Patel Estate, Reis Magos, Verem, Alto, Old Betim Road, Bardez, Porvorim Panaji, Goa- 403101 as Environmental laboratory under the Environmental (Protection) Act, 1986- reg.

Sir,

With reference to your application dated 05/07/2023 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 renewal of recognition of Environmental laboratory and Govt. Analysts. Subsequently, **M/s Sadekar Enviro Engineers Private Limited, B-306/307, Plot No.61, Patel Estate, Reis Magos, Verem, Alto, Old Betim Road, Bardez, Porvorim Panaji, Goa- 403101** shall be notified considering the current requirement of mandatory accreditation / certifications of the laboratory **with a validity up to 03/12/2024** in the Gazette Notification of India.

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

1. Smt. Varsha Pushkar Chopdekar
2. Sh. Ananddeep Vishram Sawant
3. Sh. Roshan Vaman Parab

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 (Jar 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, Bromide, Carbon Dioxide, Chlorine Demand, Iodine, Sulphite, Silica, Cyanide and Sulphide.
- 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, Beryllium, Barium, Lithium, Manganese, Selenium, Silver, Strontium, Tin, Antimony, Cobalt and Vanadium.
- 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), Total Organic Carbon, Absorbable Organic Halide (AOX), Surfactants, Tanin & Lignin, Poly-Chlorinated Biphenyl each (PCB's), Polynuclear Aromatic Hydrocarbon (PAH) each, Organic Carbon (In Solid) and Carbon/Nitrogen ratio.
- e) **Microbiological Test**: Total Coliform, Faecal Coliform, *E. coli*, *Faecal Streptococci*, Total Plate Count and *Enterococcus* and Coliphage.

Contd.


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- f) **Toxicological Tests:** Bioassay Method for Evaluation of Toxicity Using Fish (90% survival of fish after 96 hrs in 100% effluent) and Measurement of Toxicity Factor using Zebra Fish (Dimensionless Toxicity Test).
- g) **Biological Tests:** Benthic Organism Identification and Count, Macrophytic Identification and Chlorophyll.
- h) **Characterization of Hazardous Waste:** Preparation of leachate (TCLP/Water extract), Ignibility (Flash Point), Reactivity and Measurement of Heavy Metals/ Pesticides in the Waste and Leachate.
- i) **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, Bicarbonate, Calcium, Chloride, Heavy Metals, Magnesium, Nitrite, Nitrate, PAH, Phosphate, Sulphate, Sulphur, TOC, Total Water Soluble Salt and Water Holding Capacity.
- j) **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 and others and PM_{2.5}.
- k) **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.
- l) **Noise Level:** Noise Level Measurement (20-140 dBa) and Ambient Noise and Source Specific Noise.
- m) **Meteorological:** Ambient Temperature, Wind Direction, Wind Speed, Relative Humidity, Solar Radiation and Rainfall.
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. **M/s Sadekar Enviro Engineers Private Limited, Goa** 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,


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

डॉ. के. रंगनाथन / Dr. K. Ranganathan
वैज्ञानिक 'ई' / Scientist 'E'
प्रभाषी जल एवं उपकरणों प्रयोगशाला
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Central Pollution Control Board
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