



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

CPCB No. LB/99/7/2021-INST LAB-HO-CPCB-HO/ Pvt-35

Dated: 06<sup>th</sup> April 2022  
06<sup>th</sup> June 2022

2020

Speed Post

To,

The Chief Executive Officer  
M/s Shiva Analyticals (India) Pvt. Ltd.,  
Plot No. 24 (D) & 34 (D), KIADB Industrial Area,  
Hoskote, Bangalore Rural-562114, Karnataka.

Subject: Recognition of M/s Shiva Analyticals (India) Pvt. Ltd., Plot No. 24 (D) & 34 (D), KIADB Industrial Area, Hoskote, Bangalore Rural-562114 as Environmental laboratory under the Environmental (Protection) Act-1986.

Sir,

I am directed to refer to your application dated 15/07/2021 for the recognition of your laboratory Environmental (Protection) Act, 1986. Based on the recommendations of the concerned Division and 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 recognition of M/s Shiva Analyticals (India) Pvt. Ltd., Plot No. 24 (D) & 34 (D), KIADB Industrial Area, Hoskote, Bangalore Rural-562114 as 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 30/05/2022 or valid till the extension of current NABL accreditation, if any.

2. As sought in your aforementioned M/s Shiva Analyticals (India) Pvt. Ltd., Plot No. 24 (D) & 34 (D), KIADB Industrial Area, Hoskote, Bangalore Rural-562114 may undertake the following tests:

- 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, Settleable solids and Sludge Volume Index (SVI).
- 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, Iodine, Sulphite, Silica, Cyanide and Sulphides.
- 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.
- Organics (General) and trace organics**: Bio-chemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Oil and Grease, Phenol, Pesticide (each) (Organo-chlorine and Organo Nitrogen-Phosphorus), Surfactants, Tannin & Lignin, Poly-chlorinated biphenyl (PCB's), Polynuclear aromatic hydrocarbons (PAHs) each, Organic Carbon (in solid) and Carbon/Nitrogen ratio.
- Microbiological test**: Total Coliform, Faecal Coliform, Faecal Streptococci, *E. coli*, Total Plate Count and *Enterococcus*.
- Toxicological Tests**: Bioassay method for evaluation of toxicity using fish and Measurement of toxicity factor using zebra fish (dimensionless toxicity test).

Contd.

‘परिवेश भवन’ पूर्वी अर्जुन नगर, दिल्ली-110032

Parivesh Bhawan, East Arjun Nagar, Delhi-110032

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

- vii. **Biological Tests:** Macrophytic identification, Planktonic identification count and Chlorophyll.
- viii. **Characterization of Hazardous waste:** Ignibility (Flash point), Reactivity and Measurement of heavy metals/ pesticides in the waste and leachate.
- 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 extract, Sodium, Soil moisture, TKN, Calorific Value, Ammonia, Bicarbonate, Calcium, Calcium Carbonate, Chloride, Colour, Exchangeable Sodium Percentage (ESP), Heavy Metals, Magnesium, Nitrate, Nitrite, PAH, Pesticide Potash (available), Sulphate, Sulphur, TOC and Total water soluble salt.
- 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, Methane, Ozone, Benzene Toluene Xylene (BTX), Polycyclic Aromatic Hydrocarbon (PAH) Benzo-a-pyrene and others and PM<sub>2.5</sub>.
- 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 (Particulate), Fluoride (Gaseous), Hydro Chloric Acid, Total Hydro carbon, Hydrogen sulphide and Carbon Disulphide.
- xii. **Noise level:** Noise level measurement (20-140 dba) and Ambient Noise and Source specific Noise.
- xiii. **Meteorological Monitoring:** Ambient Temperature, Wind direction, Wind speed, Relative Humidity and Rainfall.
3. Further, the following analysts have been approved for recognition as government Analysts.
- Sh. Krishnamurthy
  - Sh. Ravi M. B.
  - Sh. Prakash S.
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 (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 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,

K. Ranganathan 16/6/22

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