



restoring eco balance...

ECO PARYAVARAN GROUP

**ECO PARYAVARAN
LABORATORIES AND CONSULTANTS PRIVATE LIMITED**



www.ecoparyavaran.org



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MESSAGE OF FOUNDER CUM MANAGING DIRECTOR

"We all have one thing in common – it is the one thing all of us share.

It transcends beyond political boundaries - a shared mutual interest. The biggest asset that we own – God's most beautiful gift - a resource that is priceless, limitless, flawless.

Thousands have lived without love, not one without water. Day after day, Nature is painting for us, infinite pictures of beauty.

Then Why? Why is environment still considered to be someone else's problem?

Why be a part of the pollution, when you can be a part of the solution!"



DR. SANDEEP GARG
Managing Director

Eco Paryavaran Group is one of North India's most reputed environmental organizations, offering comprehensive consultancy services, laboratory solutions, and manufacturing of pollution control equipment. One of its key ventures, Eco Paryavaran Engineers and Consultants Pvt. Ltd., specializes in the design, manufacturing, and turnkey installation of advanced pollution control systems such as ETP, STP, WTP, UF, RO, ZLD, APCD, and Solid Waste Management Systems.

Another core venture, Eco Paryavaran Laboratories and Consultants Pvt. Ltd., which has two divisions one is Testing, and another is Environment Management System (EMS).

Testing Division is recognized by Central Pollution Control Board (CPCB) under Ministry of Environment, Forest and Climate Change (MOEF & CC) Government of India as Environmental Laboratory under the Environment (Protection) Act, 1986. Testing Division is accredited for ISO/IEC 17025 2017 by National Accreditation Board for Testing and Calibration Laboratories (NABL) under Quality Council of India (QCI), in Chemical, Biological, Mechanical and Non-destructive (NDT) disciplines for the testing of Water, Wastewater, Air, Noise, Soil, Solid-Fuel, Building, Infrastructure & Construction Materials for Chemical, Biological, Mechanical and Non-destructive Test parameters.

EMS division of Laboratory is accredited by the National Accreditation Board for Education and Training (NABET) under Quality Council of India (QCI) for providing EIA consultancy Environment Impact Assessment (EIA) and Environmental Clearance (EC) services in 12 sectors.

Together, these capabilities make Eco Paryavaran Group a one-stop solution for all environmental management needs.



ECO PARYAVARAN LABORATORIES & CONSULTANTS PVT. LTD.,

(TESTING DIVISION)

Atmospheric Pollution	<ul style="list-style-type: none">• Ambient Air• Indoor Air Quality (Passive Air)• Ambient Noise• Source Noise Levels• Personal Exposure Noise• Fugitive emission• Stack Emission• Meteorological Parameters• Process/Vent Emissions• Work Environment and Indoor Air Quality
Pollution & Environment	<ul style="list-style-type: none">• Soil/Sediments• Effluents toxicity (Bioassay)• Wastes Liquid/Slurry/Sludge/Solid/Semi-Solid
Water Testing Facility	<ul style="list-style-type: none">• Water for Medicinal Purpose (ISO 23500-3: 2019) Preparation and Quality Management of Fluid for Hemodialysis and Related Therapies• Drinking water/ Ground water IS 10500: 2012• Packaging Drinking water IS 14543• Packaged Natural Drinking Water IS 13428• Ground water management<ul style="list-style-type: none">• Artificial Recharge: IS-15792 provides guidelines for augmenting groundwater resources using surplus surface water.• Rooftop Rainwater Harvesting: IS5797 offers guidelines for implementing rooftop rainwater harvesting systems.• Hydro geological Studies: IS-15897 specifies surface geophysical surveys for studying groundwater• Ground water management<ul style="list-style-type: none">• Class A – Drinking water without conventional treatment but after disinfection.• Class B – Water for outdoor bathing.• Class C – Drinking water with conventional treatment followed by disinfection.• Class D – Water for fish culture and wild life propagation.• Class E – Water for irrigation, industrial cooling and controlled waste disposal. (Unobj = Unobjectionable).• Irrigation water,• Swimming Pool water• Construction Water IS 456:2000• Industrial Water• Water used in Dairy Processing IS 4251• Water for Processed Food Industry IS 4251• Water for Ice Manufacturing IS 3957• DM Water: Water for Storage Batteries IS 1069• Boiler Water IS 10496• Boiler Blow Down Water• Cooling Tower Water IS 8188• Condensate Cooling Tower Water• Cooling towers blow down
Industrial Effluent Water Testing	<ul style="list-style-type: none">• Petroleum Oil Refinery• Sugar Industry• Thermal Power Plants - Effluent All Integrated textile units, units of Cotton/Woolen/ Carpets/ Polyester, Units having Printing / Dyeing/ Bleaching process or manufacturing and Garment units• Dye and Dye Intermediate Industry• Electroplating Anodizing Industry• Cement Plants• Small Pulp and Paper Industry• Fermentation Industry (Distilleries, Maltries and Breweries)• Fertilizer Industry• Copper, Lead and Zinc Smelting• Iron & Steel (Integrated)• Large Pulp and Paper• Petrochemicals (Basic & Intermediates)• Hotel Industry



Industrial Effluent Water Testing	<ul style="list-style-type: none"> • Pesticide Industry • Paint Industry • Glass Industry • Slaughterhouse, Meat & Sea Food Industry • Large Pulp & Paper Newsprint/Rayon Grade Plants of [Capacity above 24000 MT Per Annum] • Small Pulp and Paper (Paper Plant of Capacity upto 24000 MT /Annum) • Common Effluent Treatment Plants • Dairy • Pharmaceutical (Manufacturing and Formulation) Industry • Brick Kiln • Battery Manufacturing Industry • Sewage treatment plant • Automobile Service Station, Bus Depot or Workshop
Miscellaneous Waste Water	<ul style="list-style-type: none"> • Inland surface water • Public Sewers • Land for irrigation • Marine coastal areas • {1 [SCHEDULE - VI] (See rule 3A) General Standards for Discharge of Environmental Pollutants PART-A: EFFLUENTS}

MICROBIOLOGICAL TESTING

Biopesticides & Biofertilizers	<ul style="list-style-type: none"> • Organic Fertilizer
Environment and Pollution	<ul style="list-style-type: none"> • Indoor Air Quality (Passive Air) • Effluent/Wastewater • Sewage • Solid waste
Water	<ul style="list-style-type: none"> • Water for Medicinal Purpose (BET) • Drinking water • Ground Water • Surface water • Water for Ice manufacturing • Packaged Drinking water • Packaged natural mineral water • Water for Processed Food Industry • Water used in Dairy Processing • Water for Swimming Pool and Spas

FERTILIZERS

Nitrogenous Fertilizer	<ul style="list-style-type: none"> • Urea, • Ammonium Nitrate • Ammonium Sulfate • Calcium Ammonium Nitrate
Organic Fertilizer	<ul style="list-style-type: none"> • Rhizobium Biofertilizers • Azotobacter • Azospirillum • Phosphate Solubilizing Bacteria • Mycorrhizal Biofertilizers • Potassium Mobilising Biofertilizers (KMB) • Zinc Solubilizing Bacteria • Acetobacter • Carrier based consortia • Liquid consortia • Phosphate solubilizing Fungal Biofertilizers (Carrier based) • Phosphate solubilizing Fungal Biofertilizers (Liquid)
Solid Fuel Testing	<ul style="list-style-type: none"> • Briquettes, • Coal, • Agriculture Biomass (Loose) and Pellets • Ash on dry basis • Fixed Carbon • Gross calorific value • Moisture • Total Sulphur • Volatile matter

ADVANCED HANDS-ON TRAINING

- PAHs/PCBs/Pesticides analysis by GC-MS (TripleQuadrupole)
- Heavy Metal analysis by ICPMS
- Volatile Pollutant analysis by GC-FID/ECD
- Water analysis for 80+ parameters
- Waste water analysis for all major Pollutants
- Atmospheric Pollution; Sampling and Testing
- Microbiological Analysis
- Total Quality Management System for an accredited Testing Laboratory

CALIBRATION AND VALIDATION OF ONLINE MONITORING SYSTEM

S. No.	Calibration Activity	Test Parameters	Applications
1.	Effluent Quality Monitoring System (EQMS against Standard methods)	COD, BOD, TDS & pH	River Water, Groundwater, Effluent and Municipal Wastewater etc
2.	Continuous Emission Monitoring System (CEMS against SRM)	PM, NO _x , So ₂ , CO ₂ & O ₂	Stack Emissions of Boiler, Incinerator
3.	Ambient Air Quality Monitoring System (AAQMS against SRM)	Temperature, Humidity, PM 2.5, PM 10, NO _x & Sox	Ambient Air



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TESTING SERVICES

Silt Density Index

Does your RO System need frequent replacement of costly RO membrane?

If yes, get SDI (Silt Density Index) of your feed water checked with us @earliest possible!



You should know;

- SDI before installing the RO System?
- After a defined duration:

SDI Should be less than 5

If it is more than 5

TAKE ACTIONS

Your RO System expert can suggest to use rugged pre-filters which, shall be helpful for longer use of RO membrane and good efficiency of RO System, saving money and time.

Disinfectant Efficacy Test

Evaluation of the effectiveness of a disinfectant in reducing or eliminating microbial populations on surfaces in accordance of USP General Chapter <1072>.



You should know;

- Minimum 2-log reduction for bacterial spores
- 3-log for vegetative bacteria

IS 1061 (Disinfectant Fluids Phenolic type)

- Class Black (Graded 1,2,3,1A,2A and 3A) based on RWC and SA)
- Class White (Graded 1,2,3,1A,2A and 3A) based on RWC and SA)

Regulations:

- CDSCO regulates in India (The Drugs and Cosmetics Act 1940, IS 1061)
- USEPA regulates in USA (USP General Chapter <1072>)



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MAJOR ANALYTICAL TECHNIQUES



Gas Chromatograph-Mass Detector (Triple Quadrupole)



Gas Chromatograph with ALS & Detector (FID & ECD)



Inductively Coupled Plasma-Mass Spectroscopy



Atomic Absorption Spectroscopy (Flame, HVG and Graphite Furnace)



Flu-Gas Analyzer (M/S Horiba)



Carbon Monoxide Analyzer (M/S Horiba)



Microwave Digestion System

"BE THE SOLUTION TO RUN OFF THE POLLUTION"

Measure it accurately, Curb it substantially!



**OUR MISSION IS TO PREVENT POLLUTION WITH PURPOSE,
BY BRINGING PROFIT & GOODWILL IN EQUAL MEASURES**



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