



# NABL

## National Accreditation Board for Testing and Calibration Laboratories

(An Autonomous Body under Department of Science & Technology, Govt. of India)

### CERTIFICATE OF ACCREDITATION

## ECO TECH LABS PVT. LTD.

has been assessed and accredited in accordance with the standard

**ISO/IEC 17025:2005**

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

No. 48 A, 2<sup>nd</sup> Main Road, Ram Nagar, South Extension, Pallikaranai, Chennai, Tamil Nadu

in the discipline of  
**CHEMICAL TESTING**

(To see the scope of accreditation of this laboratory, you may also visit NABL website [www.nabl-india.org](http://www.nabl-india.org))

**Certificate Number** T-3419

**Issue Date** 09/12/2016



**Valid Until** 23/05/2017

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the additional requirements of NABL.

Signed for and on behalf of NABL

N. Venkateswaran  
Program Manager

Anil Relia  
Director

Prof. S. K. Joshi  
Chairman



# रा.प्र.प्र.बो.

## राष्ट्रीय परीक्षण और अंशशोधन प्रयोगशाला प्रत्यायन बोर्ड

(विज्ञान एवं प्रौद्योगिकी विभाग, भारत सरकार के अधीन स्वायत्तशासी निकाय)

### प्रत्यायन प्रमाण-पत्र

## इको टेक लैब्स प्राइवेट लिमिटेड

का मूल्यांकन और प्रत्यायन निम्न मानक के अनुसार

आई.एस.ओ./आई.ई.सी. 17025:2005

“परीक्षण एवं अंशशोधन प्रयोगशालाओं की सक्षमता की सामान्य अपेक्षाएँ”

## चेन्नई, तमिलनाडु

में स्थित इसकी सुविधाओं के लिए

## रासायनिक परीक्षण

के विषय क्षेत्र में किया गया।

(इस प्रयोगशाला के प्रत्यायन के विषय क्षेत्र की जानकारी एन ए बी एल वेबसाइट [www.nabl-india.org](http://www.nabl-india.org) से भी प्राप्त कर सकते हैं)

प्रमाण-पत्र संख्या प-3419

जारी करने की तिथि 09/12/2016



वैधता की तिथि 23/05/2017

यह प्रमाण-पत्र उपर्युक्त मानक तथा राष्ट्रीय परीक्षण और अंशशोधन प्रयोगशाला प्रत्यायन बोर्ड की अतिरिक्त अपेक्षाओं का निरंतर संतोषप्रद अनुपालन किए जाने पर अनुबंध में निर्दिष्टानुसार प्रत्यायन के क्षेत्र के लिए वैध रहेगा।

रा.प्र.प्र.बो. की ओर से हस्ताक्षरित

एन. वैकटेश्वरन

एन. वैकटेश्वरन  
कार्यक्रम प्रबन्धक

अनिल रेलिया

अनिल रेलिया  
निदेशक

प्रो. श्रीकृष्ण जोशी

प्रो. श्रीकृष्ण जोशी  
अध्यक्ष



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Laboratory	Eco Tech Labs Pvt. Ltd., No. 48 A, 2 <sup>nd</sup> Main Road, Ram Nagar, South Extension, Pallikaranai, Chennai, Tamil Nadu		
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Discipline	Chemical Testing	Issue Date	09.12.2016
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
<b>I. ATMOSPHERIC POLLUTION</b>				
1.	Ambient Air	Respirable Suspended Particulate Matter (PM10)	IS 5182 (Part 23) : 2006 (RA 2012)	5 µg/m <sup>3</sup> to 1000 µg/m <sup>3</sup>
		Particulate Matter (PM2.5)	ETL/SOP/AAQ/01 Issue No: 01 & Date:13.02.2014 Based on CPCB Guide lines for measurement of Ambient air pollutants (Vol-1) May 2011)	5 µg/m <sup>3</sup> to 1000 µg/m <sup>3</sup>
		Sulphur dioxide	IS 5182 (Part 2) : 2001 (RA 2012)	5 µg/m <sup>3</sup> to 1050µg/m <sup>3</sup>
		Ammonia	ETL/SOP/AAQ/02, Issue No: 01 & Date:15.02.2014 Based on CPCB Guide lines for measurement of Ambient air pollutants (Vol-1) May 2011	5 µg/m <sup>3</sup> to 500 µg/m <sup>3</sup>
		Oxidants(Ozone)	IS 5182 (Part 9): 1974 (RA 2009)	10 µg/m <sup>3</sup> to 200 µg/m <sup>3</sup>
		Oxides of Nitrogen	IS 5182 (Part 6): 2006 (RA 2012)	6 µg/m <sup>3</sup> to 750 µg/m <sup>3</sup>
		Carbon Dioxide	ETL/IOP/30 Issue No.01& Date: 04.05.2014 (Based on Instrument Manual of CO <sub>2</sub> meter)	1.8 µg/m <sup>3</sup> to 7200 µg/m <sup>3</sup>

**Bhumi Rajyaguru**  
Convenor

**N. Venkateswaran**  
Program Manager





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	Ambient Air	Carbon Monoxide	ETL/IOP/29 Issue No.01& Date: 4.05.2014	1.1 $\mu\text{g}/\text{m}^3$ to 1150 $\mu\text{g}/\text{m}^3$
		Oxygen	ETL/IOP/28, Issue No.01& Date: 4.05.2014	0.1 % to 30 % v/v
2.	Indoor Air Quality	Respirable Aersol Mass	NIOSH-0600	15 $\mu\text{g}/\text{m}^3$ to 5000 $\mu\text{g}/\text{m}^3$
		Carbon monooxide	NIOSH-6604	1.1 $\mu\text{g}/\text{m}^3$ to 115 $\mu\text{g}/\text{m}^3$
		Oxygen	NIOSH-6601	5 % to 30 %
		Ammonia	NIOSH-6015	1.5 $\mu\text{g}/\text{m}^3$ to 120 $\mu\text{g}/\text{m}^3$
3.	Stack Emission	Particulate Matter	IS 11255 (Part 1): 1985 (RA 2009)	5 $\text{mg}/\text{Nm}^3$ to 1000 $\text{mg}/\text{Nm}^3$
		Sulphur dioxide	IS 11255 (Part 2): 1985 (RA 2009)	5 $\text{mg}/\text{Nm}^3$ to 1000 $\text{mg}/\text{Nm}^3$
		Oxides of Nitrogen	IS 11255 (Part 7): 2005 (RA 2012)	2 $\text{mg}/\text{Nm}^3$ to 1000 $\text{mg}/\text{Nm}^3$
		<b>Test for Gases by Orsat Methods:</b>		
		Carbon Dioxide	IS 13270: 1992 (RA 2009)	0.2 % to 16 %
		Carbon Monoxide	IS 13270: 1992 (RA 2009)	0.2 % to 4 %
		Oxygen	IS 13270: 1992 (RA 2009)	0.2 % to 22 %

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<b>II. BUILDING MATERIALS</b>				
1.	Soil	Water Content	IS 2720 (Part 2): 1973 (RA 2010)	1 % to 50 %
		pH Value	IS 2720 (Part 26): 1987 (RA 2011)	1 to 12
		Specific Electrical Conductivity	IS 14767: 2000	0.001 mS/cm to 200 mS/cm
		Organic Matter	IS 2720 (Part 22): 1972 (RA 2010)	0.1 % to 10 %
		Cation Exchange Capacity	IS 2720 (Part 24): 1976 (RA 2010)	(3 meq to 100 meq)/100g
		Total Soluble Sulphates	IS 2720 (Part 27): 1977 (RA 2010)	5 mg/kg to 500 mg/kg
		Soluble sodium	FAO 2007 Page No:44	5 mg/kg to 500 mg/kg
		Soluble Potassium	FAO 2007 Page No:44	5 mg/kg to 500 mg/kg
		Soluble Calcium and Magnesium	FAO 2007 Page No:44	10 mg/kg to 500 mg/kg
		Carbonate and Bicarbonate	FAO 2007 Page No:46	3 mg/kg to 500 mg/kg
		Chloride	FAO 2007 Page No:48	5 mg/kg to 2500 mg/kg
		Total Nitrogen	IS 14864:1999 ( RA: 2008)	0.01 % to 10 %

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
<b>III. POLLUTION AND ENVIRONMENT</b>				
1.	Waste Water	Colour	APHA (22 <sup>nd</sup> Edition) 2120 C: 2012	400 nm to 700 nm(HUE)
		Odour	IS 3025 (Part 5): 1983 (RA 2012)	Qualitative (Objectionable/ Unobjectionable)
		Temperature	APHA (22 <sup>nd</sup> Edition) 2550 B: 2012	Ambient to 50 °C
		Turbidity	IS 3025 (Part 10): 1984 (RA 2012) Nephelometric Method	1 NTU to 999 NTU
		pH@25°C	IS 3025 (Part 11): 1983 (RA 2012) (Electrometric Method)	1 to 12
		Specific Conductance 25 °C	IS 3025 (Part 14) : 2013	1 µS/cm to 50,000 µS/cm
		Total Solids	APHA (22 <sup>nd</sup> Edition) 2540-B: 2012	1 mg/l to 10,000 mg/l
		Total Dissolved Solids	APHA (22 <sup>nd</sup> Edition) 2540-C: 2012 IS 3025 (Part 16): 1984 (RA 2012)	1 mg/l to 1000 mg/l 1001 mg/l to 10,000 mg/l
		Total Suspended Solids	APHA (22 <sup>nd</sup> Edition) 2540- D: 2012	2 mg/l to 1000 mg/l
		Fixed and Volatile Solids	APHA (22 <sup>nd</sup> Edition) 2540 E: 2012	10 mg/l to 10,000 mg/l

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	Waste Water	Settleable Solids	APHA (22 <sup>nd</sup> Edition) 2540F: 2012	0.1 ml/l to 40 ml/l
		Hardness as CaCO <sub>3</sub>	APHA (22 <sup>nd</sup> Edition) 2340C: 2012	2 mg/l to 10000 mg/l
		Acidity as CaCO <sub>3</sub>	APHA 22 <sup>nd</sup> Edition): 2012-2310-B	2 mg/l to 1000 mg/l
		Alkalinity as CaCO <sub>3</sub>	APHA (22 <sup>nd</sup> Edition) 2320 B: 2012	2 mg/l to 5000 mg/l
		Sulphates as SO <sub>4</sub>	APHA (22 <sup>nd</sup> Edition) 4500 SO <sub>4</sub> <sup>2-</sup> -E: 2012	1 mg/l to 5,000 mg/l
		Free Residual Chlorine	IS 3025 (Part 26): 1986 (RA 2009) (Iodometric method)	0.2 mg/l to 100 mg/l
		Sulphites as SO <sub>3</sub>	IS 3025 (Part 28): 1986 (RA 2009)	2 mg/l to 1000 mg/l
		Phosphorous as P	IS 3025 (Part 31): 1988 (RA 2009)	0.2 mg/l to 1000 mg/l
		Chloride as Cl	IS 3025 (Part 32): 1988 (RA 2009) (Argentometric Method)	1 mg/l to 5000 mg/l
		Ammonical Nitrogen as NH <sub>3</sub> -N	APHA (22 <sup>nd</sup> Edition) 4500 NH <sub>3</sub> -C: 2012	2 mg/l to 1000 mg/l
		Total Kjeldahl Nitrogen as N	APHA (22 <sup>nd</sup> Edition) 4500 Norg B: 2012	2 mg/l to 1000 mg/l
		Nitrite Nitrogen NO <sub>2</sub> -N	APHA (22 <sup>nd</sup> Edition) 4500 NO <sub>2</sub> -B: 2012	0.1 mg/l to 100 mg/l

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	Waste Water	Silica as SiO <sub>2</sub>	IS 3025 (Part 35): 1988 (RA 2009) Heteropoly blue Method	0.2 mg/l to 500 mg/l
		Dissolved Oxygen	IS 3025 (Part 38) : 1989 (RA 2009) Titrimetric Method	1 mg/l to 8.5 mg/l
		Oil and Grease	IS 3025 (Part 39): 1991 (RA 2009) Partition Gravimetric Method	4 mg/l to 100 mg/l
		Calcium as Ca	APHA (22 <sup>nd</sup> Edition) 3500 Ca-B: 2012	1 mg/l to 2,000 mg/l
		Copper as Cu	IS 3025 (Part 42) : 1992 (RA 2009) Neocuproine Method	0.05 mg/l to 50 mg/l
		Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	IS 3025 (Part 43): 1992 (RA 2009)	0.001 mg/l to 10 mg/l
		Biochemical Oxygen Demand @27°C for 3 Days	IS 3025 (Part 44): 1993 (RA 2009)	2 mg/l to 1000 mg/l
		Biochemical oxygen demand @20°C for 5 days	APHA (22 <sup>nd</sup> Edition) 5210-B: 2012	2 mg/l to 1000 mg/l
		Sodium as Na	IS 3025 (Part 45): 1993 (RA 2009) (Flame Photometry Method)	1 mg/l to 5000 mg/l
		Potassium as K	IS 3025 (Part 45): 1993 (RA2009) (Flame Photometry Method)	1 mg/l to 5000 mg/l
		Magnesium as Mg	APHA (22 <sup>nd</sup> Edition) 3500 Mg-B: 2012	1 mg/l to 2000 mg/l

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Waste Water	Carbonate and Bicarbonate as CaCO <sub>3</sub>	IS 3025 (Part 51): 2001 (RA 2009)	2 mg/l to 5000 mg/l
		Hexavalent Chromium as Cr	IS 3025 (Part 52): 2003 (RA 2009) (Diphenylcarbazide Method)	0.2 mg/l to 50 mg/l
		Total Chromium as Cr	IS 3025 (Part 52): 2003 (RA 2009) (Diphenylcarbazide Method)	0.05 mg/l to 50 mg/l
		Iron as Fe	APHA (22 <sup>nd</sup> Edition) 3500 Fe-B: 2012 IS 3025 (Part 53): 2003 (RA 2009)	0.1 mg/l to 50 mg/l
		Nickel as Ni	IS 3025 (Part 54): 2003 (RA 2009) Dimethylglyoxime Method	0.03 mg/l to 50 mg/l
		Aluminium as Al	IS 3025 (Part 55): 2003 (RA 2009) (Erichrome Cyanine R Method)	0.02 mg/l to 50 mg/l
		Boron as B	APHA (22 <sup>nd</sup> Edition) 4500-B-B: 2012	0.2 mg/l to 50 mg/l
		Chemical Oxygen Demand	IS 3025 (Part 58): 2006 (RA 2012)	4 mg/l to 10000 mg/l
		Manganese as Mn	IS 3025 (Part 59): 2006 (RA 2012) (Formaloxime Spectrophotometric Method)	0.1 mg/l to 50 mg/l
		Fluoride as F-	APHA (22 <sup>nd</sup> Edition) 4500-F-D: 2012	0.2 mg/l to 500 mg/l

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<b>IV. WATER</b>				
1.	Raw Water, Well Water, Bore well Water, Surface Water, processed food industry water, Swimming Pool Water, Water for irrigation, Construction Water, Reagent Grade Water, Drinking Water	Colour	IS 3025 (Part 4): 1983(RA 2012) (Platinum Cobalt Method)	1 Hazen to 70 Hazen
		Odour	IS 3025 (Part 5): 1983 (RA 2012)	Qualitative (Agreeable/Disagreeable)
		Turbidity	IS 3025 (Part 10): 1984 (RA 2012) Nephelometric Method	1 NTU to 999 NTU
		pH @ 25°C	IS 3025 (Part 11): 1983 (RA 2012) (Electrometric Method)	1 to 12
		Taste (Only Drinking water)	IS 3025 (Part 7): 1984 (RA 2002)	Qualitative (Agreeable/Disagreeable)
		Total Dissolved Solids	APHA (22 <sup>nd</sup> Edition) 2540-C: 2012	1 mg/l to 1000 mg/l 1001 mg/l to 10,000 mg/l
		Total Hardness as CaCO <sub>3</sub>	APHA (22 <sup>nd</sup> Edition) 2340-C: 2012	2 mg/l to 5000 mg/l
		Alkalinity as CaCO <sub>3</sub>	APHA (22 <sup>nd</sup> Edition) 2320-B: 2012	2 mg/l to 5,000 mg/l
		Sulphate as SO <sub>4</sub>	APHA (22 <sup>nd</sup> Edition) 4500 SO <sub>4</sub> <sup>-E</sup> : 2012	1 mg/l to 5,000 mg/l
		Free Residual Chlorine	IS 3025 (Part 26): 1986 (RA 2009) (Iodometric method)	0.2 mg/l to 100 mg/l
Chloride as Cl	IS 3025 (Part 32): 1988 (RA 2009) (Argentometric Method)	1 mg/l to 2,500 mg/l		

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	Raw Water, Well Water, Bore well Water, Surface Water, processed food industry water, Swimming Pool Water, Water for irrigation, Construction Water, Reagent Grade Water, Drinking Water	Nitrite as NO <sub>2</sub>	APHA (22 <sup>nd</sup> Edition) 4500 NO <sup>2</sup> -B: 2012	0.1 mg/l to 100 mg/l
		Fluoride as F	APHA (22 <sup>nd</sup> Edition) 4500-F- D: 2012	0.2 mg/l to 500 mg/l
		Calcium as Ca	APHA (22 <sup>nd</sup> Edition) 3500 Ca-B: 2012	1 mg/l to 2,000 mg/l
		Copper as Cu	IS 3025 (Part 42): 1992 (RA 2009) Neocuproine Method	0.05 mg/l to 50 mg/l
		Phenolic compounds as C <sub>6</sub> H <sub>5</sub> OH	IS 3025 (Part 43): 1992 (RA 2009)	0.001 mg/l to 10 mg/l
		Sodium as Na	IS 3025 (Part 45): 1993 (RA2009) (Flame Photometry Method)	1 mg/l to 1000 mg/l
		Potassium as K	IS 3025 (Part 45): 1993 (RA 2009) (Flame Photometry Method)	1 mg/l to 1000 mg/l
		Magnesium as Mg	APHA (22 <sup>nd</sup> Edition) 3500 Mg-B: 2012	1 mg/l to 1000 mg/l
		Hexavalent Chromium as Cr	IS 3025 (Part 52): 2003 (RA 2009) (Diphenylcarbazide Method)	0.2 mg/l to 50 mg/l
		Total Chromium as Cr	IS 3025 (Part 52): 2003 (RA 2009) (Diphenylcarbazide Method)	0.05 mg/l to 50 mg/l
		Iron as Fe	IS 3025 (Part 53): 2003 (RA 2009) (1,10 Phenanthroline Method)	0.1 mg/l to 50 mg/l

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	<b>Raw Water, Well Water, Bore well Water, Surface Water, processed food industry water, Swimming Pool Water, Water for irrigation, Construction Water, Reagent Grade Water, Drinking Water</b>	Ammonical Nitrogen as NH <sub>3</sub> -N	IS 3025 (Part 34): 1988 (RA 2009) (Nesslerization method)	0.2 mg/l to 100 mg/l
		Nitrate as NO <sub>3</sub>	IS 3025 (Part 34): 1988 (RA 2009) (Chromotropic acid method)	1 mg/l to 50 mg/l
		Nickel as Ni	IS 3025 (Part 54): 2003 (RA 2009) (Dimethylglyoxime Method)	0.03 mg/l to 50 mg/l
		Aluminium as Al	IS 3025 (Part 55): 2003 (RA 2009) (Erichrome Cyanine R Method)	0.02 mg/l to 50 mg/l
		Boron as B	APHA (22 <sup>nd</sup> Edition) 4500-B-B: 2012	0.2 mg/l to 50 mg/l
		Manganese as Mn	IS 3025 (Part 59): 2006 (RA 2012) (Formaloxime Spectrometric Method)	0.1 mg/l to 50 mg/l
		Inorganic Solids Organic Solids	IS 3025 (Part 18): 1984 (RA 2002)	10 mg/l to 10,000 mg/l
		Total suspended solids	IS 3025 (Part 17): 1984 (RA 2002)	2 mg/l to 2000 mg/l
		Specific Conductance 25°C	IS 3025 (Part 14): 2013	1 µS/cm to 50,000 µS/cm
		Silica as SiO <sub>2</sub>	IS 3025 (Part 35): 1988 (RA 2009)	0.1 mg/l to 100 mg/l

**Bhumi Rajyaguru**  
Convenor

**N. Venkateswaran**  
Program Manager



# NABL

## SCOPE OF ACCREDITATION

Laboratory	Eco Tech Labs Pvt. Ltd., No. 48 A, 2 <sup>nd</sup> Main Road, Ram Nagar, South Extension, Pallikaranai, Chennai, Tamil Nadu		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Chemical Testing	Issue Date	09.12.2016
Certificate Number	T-3419	Valid Until	23.05.2017
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
	Raw Water, Well Water, Bore well Water, Surface Water, processed food industry water, Swimming Pool Water, Water for irrigation, Construction Water, Reagent Grade Water, Drinking Water	Colour retention of $KMnO_4$  Water Neutralization  To neutralize 100 ml of sample water using phenolphthalein as indicator using 0.02 N NaOH  To neutralize 100 ml of sample water using Mixed indicator using 0.02 N $H_2SO_4$  Total Solids/Non Volatile Residue $105^\circ C$	IS 1070: 1992 (RA 2013) Annexure A  IS 3025 (Part 22): 1986 (RA 2009)  IS 3025 (Part 23): 1986 (RA 2009)  IS 3025 (Part 15): 1984 (RA 2009)	Qualitative  0.1 ml to 50 ml  0.1 ml to 100 ml  1 mg/l to 50 mg/l

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