



**National Accreditation Board for  
Testing and Calibration Laboratories**  
(A Constituent Board of Quality Council of India)



## CERTIFICATE OF ACCREDITATION

# SIDDHI GREEN EXCELLENCE PRIVATE LIMITED

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

"Kamal Arcade The Vertical Sunclock", Comm. Plot No. C-3/3, Station Road, GIDC, Ankleshwar, Gujarat

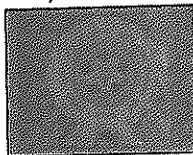
in the field of

**TESTING**

Certificate Number TC-5007 (in lieu of T-2245)

Issue Date 27/02/2017

Valid Until 26/02/2019



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

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

Signed for and on behalf of NABL

N. Venkateswaran  
Program Director

Anil Relia  
Chief Executive Officer



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## SCOPE OF ACCREDITATION

**Laboratory** Siddhi Green Excellence Private Limited, "Kamal Arcade–The Vertical SunClock", Comm. Plot No. C-3/3, Station Road, GIDC, Ankleshwar, Gujarat

**Accreditation Standard** ISO/IEC 17025: 2005

**Certificate Number** TC-5007 (in lieu of T-2245) **Page 1 of 8**

**Validity** 27.02.2017 to 26.02.2019 **Last Amended on --**

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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### CHEMICAL TESTING

<u>AT LABORATORY</u>				
I.	<b>POLLUTION &amp; ENVIRONMENT</b>			
1.	Waste water (Effluents / Sewage)	pH	IS:3025 (Part-11)-1983 Clause 2– RA- 2012	1 to 14
		Total dissolved solids	APHA 22 <sup>nd</sup> Ed. 2540C	10 to 1,00,000 mg/L
		Chemical oxygen demand (COD)	IS 3025 (Part 58) : 2006 RA- 2012	4 to 1,00,000 mg/L
		Chloride	APHA 22 <sup>nd</sup> Ed. 4500 B	1 to 1,00,000 mg/L
		Ammonical Nitrogen	APHA 22 <sup>nd</sup> Ed. 4500 NH <sub>3</sub> C	10 to 5000 mg/L
		Temperature	APHA 22 <sup>nd</sup> Ed. 2550 B	0 to 100 °C
		Colour	APHA 22 <sup>nd</sup> Ed. 2120 B	4 to 500 Hazen
		Total Suspended Solids	APHA 22 <sup>nd</sup> Ed. 2540 D	10 to 10,000 mg/L
		Biochemical Oxygen Demand	IS 3025 (part44)1993 RA- 2014, (3-days BOD test)	10 to 10,000 mg/L
		Dissolved Oxygen	IS 3025 (Part 38) : 1989 Clause- 4.2 RA 2014	0.5 to 8 mg/L
		Nitrate Nitrogen	IS : 3025 (Part 34) 1988 Clause 3.3 RA 2014	0.1 to 100 mg/L
		Total Kjeldahl Nitrogen	APHA 22 <sup>nd</sup> Ed. 4500-N <sub>org</sub> B	10 to 10,000 mg/L
		Turbidity	IS 3025 (Part 10) 1984 RA 2012	1 to 500 NTU
		Oil & Grease	IS 3025 (Part 39) : 1991 Clause 5 RA 2014	1 to 500 mg/L
		Sulphate	APHA 22 <sup>nd</sup> Ed. 4500-SO <sub>4</sub> <sup>-2</sup> -E	10 to 50,000 mg/L
		Phenolic Compounds	APHA 22 <sup>nd</sup> Ed. 5530 D	0.1 to 250 mg/L
	Hexavalent Chromium	APHA 22 <sup>nd</sup> Ed. 3500 Cr <sup>-6</sup> -B-	0.1 to 50 mg/L	
	Phosphate	APHA 22 <sup>nd</sup> Ed. 4500-P-C	5 to 50 mg/L	
	Sodium	APHA 22 <sup>nd</sup> Ed. 3500-Na B	5 to 800 mg/L	

Iti Saxena  
Convenor

N. Venkateswaran  
Program Director



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Page 2 of 8

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Last Amended on --

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		Iron	IS 3025 : Part 53 : 2003 Clause 6 RA-2014	1 to 50 mg/L
		Sulphide	APHA 22 <sup>nd</sup> Ed. 4500S <sup>2</sup> - F	0.5 to 50 mg/L
		Fluoride	APHA 22 <sup>nd</sup> Ed. 4500F <sup>D</sup>	0.5 to 10 mg/L
		Copper	APHA 22 <sup>nd</sup> Ed.3111B	0.1 to 10 mg/L
		Lead	APHA 22 <sup>nd</sup> Ed.3111B	0.1 to 10 mg/L
		Chromium	APHA 22 <sup>nd</sup> Ed.3111B	0.1 to 10 mg/L
		Cadmium	APHA 22 <sup>nd</sup> Ed.3111B	0.1 to 10 mg/L
		Nickel	APHA 22 <sup>nd</sup> Ed.3111B	0.2 to 10 mg/L
		Zinc	APHA 22 <sup>nd</sup> Ed.3111B	1 to 20 mg/L
		Manganese	APHA 22 <sup>nd</sup> Ed.3111B	0.5 to 20 mg/L
		Arsenic	APHA 22 <sup>nd</sup> Ed.3114	0.1 to 10 mg/L
		Mercury	APHA 22 <sup>nd</sup> Ed.3112	0.002 to 5 mg/L
2.	Soil / Sediments	Cation Exchange Capacity	IS:2720(PART- 24):1976, Method 5, RA 2015	1.0 to 600 meq/100gm
		pH Value	IS:2720(PART- 26):1987, RA 2011	1 to 14
		Moisture Content	IS:2720(PART-2):1973, RA 2015	1 to 50%
		Specific Gravity	IS:2720(PART- 3/sec-1):1980 RA 2011	1 to 4
		Electrical Conductivity	IS:14767:2000, RA 2016	1 to 2000 $\mu$ S/cm
		Exchangeable Calcium (Ca)	SC/ LAB/STP-66 Issue no.:- 01 Date of issue:-01/03/2014 Rev-02	2 to 600 mg/Kg
		Exchangeable Magnesium(Mg)	SC/ LAB/STP-66 Issue no.:- 01 Date of issue:-01/03/2014 Rev-02	2 to 400 mg/Kg
		Available sodium(Na)	SC/ LAB/STP-64 Issue no.:- 01 Date of issue:-01/03/2014 Rev-02	2 to 50 mg/Kg

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Page 3 of 8

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		Available Potassium(K)	SC/ LAB/STP-65 Issue no.:- 01 Date of issue:-01/03/2014 Rev-02	1 to 40 mg/Kg
		Available Phosphorus as P	SC/ LAB/STP-67 Issue no.:- 01 Date of issue:-01/03/2014 Rev-02	1 to 30 mg/Kg
<b>II.</b>	<b>WATER</b>			
<b>1.</b>	<b>Surface Water/ Ground Water</b>	pH	IS:3025 (Part-11)-1983 Clause 2 RA- 2012	1 to 14
		Total dissolved solids	APHA 22 <sup>nd</sup> Ed. 2540C	10 to 50,000mg/L
		Chemical oxygen demand(COD)	IS 3025 (Part 58) : 2006 RA- 2012	4 to 10,000 mg/L
		Acidity	IS: 3025 (Part-22)-1986- Clause 8.1 RA- 2014	10 to 500 mg/L
		Total Alkalinity	IS: 3025 (Part-23)-1986- Clause 8.1 RA-2014	10 to 2000 mg/L
		Chloride	APHA 22 <sup>nd</sup> Ed. 4500-CI <sup>-</sup> B (Argentometric method)	1 to 50,000 mg/L
		Temperature	APHA 22 <sup>nd</sup> Ed. 2550B	0 to 100 °C
		Colour	APHA 22 <sup>nd</sup> Ed. 2120B	4 to 100 Hazen
		Conductivity	APHA 22 <sup>nd</sup> Ed. 2510B	15 to 10,000 µS/cm
		Total solids	APHA 22 <sup>nd</sup> Ed. 2540 B	10 to 50,000 mg/L
		Total Suspended Solids	APHA 22 <sup>nd</sup> Ed. 2540D	10 to 1000 mg/L
		Biochemical Oxygen Demand(BOD <sub>3d, 27°C</sub> )	IS 3025(Part 44)1993 RA- 2014 3-days BOD test	10 to 10,000mg/L
		Dissolved Oxygen	IS 3025 (Part 38) : 1989 Clause 4.2 RA 2014	1 to 10 mg/L
		Nitrate Nitrogen	IS : 3025 (Part 34) 1988 Clause 3.3 RA-2014	0.1 to 60 mg/L
		Nitrite Nitrogen	IS : 3025 (Part 34) 1988 Clause 4 RA-2014	0.01 to 10 mg/L

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Page 4 of 8

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		Total Kjeldahl Nitrogen	APHA 22 <sup>nd</sup> Ed. 4500- N <sub>org</sub> B	2 to 1000 mg/L
		Turbidity	IS 3025 (Part 10) 1984 RA-2012	0.5 to 100 NTU
		Oil & Grease	IS 3025 (Part 39) : 1991 Clause 5 RA-2009	1 to 100 mg/L
		Sulphate	APHA 22 <sup>nd</sup> Ed. 4500-SO <sub>4</sub> <sup>2-</sup> -E	10 to 1000 mg/L
		Phenolic Compounds	APHA 22 <sup>nd</sup> Ed. 5530 D	0.001 to 5 mg/L
		Hexavalent Chromium	APHA 22 <sup>nd</sup> Ed. 3500 Cr-B-	0.1 to 50 mg/L
		Phosphate	APHA 22 <sup>nd</sup> Ed. 4500-P-C	1 to 50 mg/L
		Total Hardness	APHA 22 <sup>nd</sup> Ed. 2340C	10 to 1000 mg/L
		Calcium	APHA 22 <sup>nd</sup> Ed. 3500-Ca B	10 to 500 mg/L
		Magnesium	APHA 22 <sup>nd</sup> Ed. 3500-Mg B	10 to 500 mg/L
		Carbonate & Bicarbonates	IS 3025 (Part 51) : 2001 Clause 9, RA 2012	10 to 3000 mg/L
		Sodium	APHA 22 <sup>nd</sup> Ed. 3500-Na B	5 to 500 mg/L
		Potassium	APHA 22 <sup>nd</sup> Ed. 3500-K B	5 to 500 mg/L
		Iron	IS 3025 : Part 53 : 2003 Clause 6 RA-2014	0.1 to 5 mg/L
		Fluoride	APHA 22 <sup>nd</sup> Ed. 4500F <sup>-</sup> D	0.5 to 10 mg/L
		Silica	APHA 22 <sup>nd</sup> Ed. 4500-SiO <sub>2</sub> -C	0.1 to 100 mg/L
		Copper	APHA 22 <sup>nd</sup> Ed.3111B	0.1 to 10 mg/L
		Lead	APHA 22 <sup>nd</sup> Ed.3111B	0.1 to 10 mg/L
		Chromium	APHA 22 <sup>nd</sup> Ed.3111B	0.1 to 10 mg/L
		Cadmium	APHA 22 <sup>nd</sup> Ed.3111B	0.1 to 10 mg/L
		Nickel	APHA 22 <sup>nd</sup> Ed.3111B	0.2 to 10 mg/L
		Zinc	APHA 22 <sup>nd</sup> Ed.3111B	0.2 to 20 mg/L
		Manganese	APHA 22 <sup>nd</sup> Ed.3111B	0.05 to 10 mg/L
		Aluminium	APHA 22 <sup>nd</sup> Ed.3111D	0.02 to 10 mg/L
		Arsenic	APHA 22 <sup>nd</sup> Ed.3114	0.1 to 10 mg/L
		Mercury	APHA 22 <sup>nd</sup> Ed.3112	0.002 to 5 mg/L
2.	Drinking Water	Colour	APHA 22 <sup>nd</sup> Ed. 2120B	4 to 100 Hazen
		pH	IS:3025 (Part-11)-1983 Clause 2 RA-2012	1 to 14

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Page 5 of 8

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		Turbidity	IS 3025 (Part 10) 1984 RA 2012	0.5 to 50 NTU
		Total dissolved solids	APHA 22 <sup>nd</sup> Ed. 2540C	10 to 4000 mg/L
		Aluminium	APHA 22 <sup>nd</sup> Ed.3111D	0.028 to 1 mg/L
		Calcium	APHA 22 <sup>nd</sup> Ed. 3500-Ca B	10 to 500 mg/L
		Chloride	APHA 22 <sup>nd</sup> Ed. 4500-Cl <sup>-</sup> B (Argentometric method)	10 to 5000 mg/L
		Copper	APHA 22 <sup>nd</sup> Ed.3111B	0.05 to 10 mg/L
		Fluoride	APHA 22 <sup>nd</sup> Ed. 4500F <sup>-</sup> D	0.5 to 5 mg/L
		Iron	IS 3025 : Part 53 : 2003 Clause 6 Ra-2014	0.1 to 5 mg/L
		Magnesium	APHA 22 <sup>nd</sup> Ed. 3500-Mg B	10 to 500 mg/L
		Manganese	APHA 22 <sup>nd</sup> Ed.3111B	0.05 to 10 mg/L
		Nitrate Nitrogen	IS : 3025 (Part 34) 1988 Clause-3.3 RA 2014	0.1 to 60 mg/L
		Phenolic Compounds	APHA 22 <sup>nd</sup> Ed. 5530 D	0.0009 to 5 mg/L
		Sulphate	APHA 22 <sup>nd</sup> Ed. 4500-SO <sub>4</sub> <sup>-2</sup> -E	10 to 1000 mg/L
		Total Alkalinity	IS: 3025 (Part-23)-1986- Clause 8.1, RA-2014	10 to 2000 mg/L
		Total Hardness	APHA 22 <sup>nd</sup> Ed. 2340C	10 to 1000 mg/L
		Zinc	APHA 22 <sup>nd</sup> Ed.3111B	0.2 to 20 mg/L
3.	Packaged Drinking Water	pH	IS:3025 (Part-11)-1983 Clause 2 RA- 2012	1 to 14 pH
		Alkalinity	IS: 3025 (Part-23)-1986- Titration RA-2014	10 to 2000 mg/L
		Total dissolved solids	APHA 22 <sup>nd</sup> Ed. 2540C	10 to 4000 mg/L
		Colour	APHA 22 <sup>nd</sup> Ed. 2120B	4 to 100 Hazen
		Aluminium	APHA 22 <sup>nd</sup> Ed.3111D	0.028 to 1 mg/L
		Chloride	APHA 22 <sup>nd</sup> Ed. 4500-Cl <sup>-</sup> B (Argentometric method)	10 to 500 mg/L
		Nitrate Nitrogen	IS : 3025 (Part 34) 1988 Clause 3.3 RA 2014	0.1 to 60 mg/L
		Nitrite Nitrogen	IS : 3025 (Part 34) 1988 Clause 4 RA 2014	0.01 to 10 mg/L

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Page 6 of 8

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Last Amended on --

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		Turbidity	IS 3025 (Part 10) 1984 RA 2012	0.1 to 50 NTU
		Sulphate	APHA 22 <sup>nd</sup> Ed. 4500-SO <sub>4</sub> <sup>-2</sup> E	10 to 1000 mg/L
		Phenolic Compounds	APHA 22 <sup>nd</sup> Ed. 5530 D	0.0009 to 5 mg/L
		Calcium	APHA 22 <sup>nd</sup> Ed. 3500-Ca B	10 to 500 mg/L
		Magnesium	APHA 22 <sup>nd</sup> Ed. 3500-Mg B	10 to 500 mg/L
		Iron	IS 3025 : Part 53 : 2003 Clause 6 RA-2014	0.1 to 5 mg/L
		Fluoride	APHA 22 <sup>nd</sup> Ed. 4500F <sup>-</sup> D	0.5 to 5 mg/L
		Copper	APHA 22 <sup>nd</sup> Ed.3111B	0.05 to 10 mg/L
		Zinc	APHA 22 <sup>nd</sup> Ed.3111B	0.2 to 20 mg/L
		Manganese	APHA 22 <sup>nd</sup> Ed.3111B	0.05 to 10 mg/L
4.	Swimming Pool Water	pH	IS:3025 (Part-11)-1983 Clause 2 RA- 2012	1 to 14 pH
		Total dissolved solids	APHA 22 <sup>nd</sup> Ed. 2540C	10 to 4000 mg/L
		Alkalinity	IS: 3025 (Part-23)-1986- Titration RA-2014	10 to 2000 mg/L
		Chloride	APHA 22 <sup>nd</sup> Ed. 4500-Cl <sup>-</sup> B (Argentometric method)	10 to 500 mg/L
		Colour	APHA 22 <sup>nd</sup> Ed. 2120B	4 to 100 Hazen
		Turbidity	IS 3025 (Part 10) 1984 RA-2012	0.1 to 50 NTU
		Iron	IS 3025 : Part 53: 2003 Clause 6 RA-2014	0.1 to 5 mg/L
		Aluminium	APHA 22 <sup>nd</sup> Ed.3111D	0.1 to 1 mg/L
III.	<b>RESIDUES IN WATER</b>			
1.	Trace metal elements	Mercury	APHA 22 <sup>nd</sup> Ed.3112	0.0009 to 5 mg/L
		Arsenic	APHA 22 <sup>nd</sup> Ed.3114	0.009 to 1 mg/L
IV.	<b>ATMOSPHERIC POLLUTION</b>			
1.	Ambient Air	Particulate Matter (size less than 10 µm) PM <sub>10</sub>	IS 5182 (Part 23): 2006 RA 2012	20 to 1000 µg/m <sup>3</sup>

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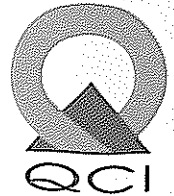
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Page 7 of 8

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		Sulphur Dioxide (SO <sub>2</sub> )	IS 5182 ( Part 2 ) :2001 RA-2012	5 to 500 µg SO <sub>2</sub> /m <sup>3</sup>
		Oxides of Nitrogen (NO <sub>x</sub> )	IS 5182 (Part 6): 2006 RA 2012	6 to 750 µg NO <sub>2</sub> /m <sup>3</sup>
		Chlorine	IS : 5182 (Part 19) : 1982 RA-2014	5 to 100 µg/m <sup>3</sup>
		Ammonia	Lab STP no. 48 Issue Date-22-10-2012 Issue No.-01 rev 02 Indophenol Blue method	5 to 1000 µg/m <sup>3</sup>
		Ozone	Method 411, Methods of Air Sampling and Analysis, 3 <sup>rd</sup> Edition), Chemical Method.	5 to 1000 µg/m <sup>3</sup>
		Lead (Pb)	IS 5182(Part 22):2006 RA-2014, Clause 5	0.4 to 100 µg/m <sup>3</sup>
		Arsenic (As)	Lab STP no. 49 Issue Date-22-10-2012 Issue No.-01 Rev-02	5 to 100 ng/m <sup>3</sup>
		Nickel (Ni)	Lab STP no. 49 Issue Date-22-10-2012 Issue No.-01 Rev-02	15 to 100 ng/m <sup>3</sup>
		Toluene	IS 5182(Part 11):2006 RA-2012	0.5 to 50 µg/m <sup>3</sup>
		Xylene	IS 5182(Part 11):2006 RA-2012	0.5 to 50 µg/m <sup>3</sup>
		Benzo(a) pyrene	IS 5182(Part 12):2004, RA-2014	0.5 to 10 ng/m <sup>3</sup>
2.	<b>Stack Emission</b>	Particulate Matter (PM)	IS:11255(Part 1):1985, RA-2014	5 to 500 mg/Nm <sup>3</sup>
		Sulphur Dioxide (SO <sub>2</sub> )	IS : 11255 (Part 2):1985, RA-2014	8 to 1000 mg/Nm <sup>3</sup>
		Oxides of Nitrogen (NO <sub>x</sub> )	IS : 11255 (Part 7):2005 RA-2012	4 to 400 mg NO <sub>2</sub> /Nm <sup>3</sup>
		Ammonia	IS 11255 (Part 6):1999 RA-2014	5 to 500 mg/Nm <sup>3</sup>

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### CHEMICAL TESTING

<u>AT SITE</u>				
I.	<b>ATMOSPHERIC POLLUTION</b>			
1.	<b>Ambient Noise Levels (Excluding Vibration)</b>	Noise level Leq dBA	IS 9989-1981 RA-2008	30 to 130 dBA
2.	<b>Stack Emission</b>	Carbon Dioxide (CO <sub>2</sub> )	Lab STP No 94 Issue date: 26-11-2016 Issue No.- 01, rev 0	0 to 21% (Calculated)
		Oxygen (O <sub>2</sub> )	Lab STP No 94 Issue date: 26-11-2016 Issue No.- 01, rev 0	0 to 21%
II.	<b>WATER</b>			
1.	<b>Swimming Pool Water</b>	Residual chlorine	APHA 22 <sup>nd</sup> Ed. 4500-Clause-B (Iodometric method)	1 to 50 mg/L

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