

Laboratory Team Labs and Consultants, B-115, 116, 117 & 509, Annapurna Block,  
Aditya Enclave, Ameerpet, Hyderabad, Telangana

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5087

Page 1 of 11

Validity 19.12.2018 to 18.12.2020

Last Amended on --

*"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"*

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

I.	POLLUTION & ENVIRONMENT			
1.	Liquid Effluents ETP/STP Water, Waste Water	pH at 25°C	IS 3025 (Part-11) by Potentiometric method	2 to 12
		Color	IS 3025 (Part-4) by Visible Spectrophotometric method	Hue (400 nm to 800 nm)
		Temperature	IS 3025 (Part-9)	20 °C to 50 °C
		Conductivity At 25°C	APHA; 23 <sup>rd</sup> Edition; 2510-B: 2017 by Conductivity meter method	1 µs/Cm to 10000 µs/Cm
		Acidity as CaCO <sub>3</sub>	IS 3025 (Part-22) by Titration Method	2 mg/L to 10000 mg/L
		Alkalinity as CaCO <sub>3</sub>	IS 3025 (Part-23) by Titration Method	2 mg/L to 10000 mg/L
		Total Residue (total Solids-Dissolved and Suspended)	IS 3025 (Part-15) by Gravimetric Method	2 mg/L to 10,000 mg/L
		Filterable Residue/TDS (Total Dissolved Solids)	IS 3025 (Part-16) by Gravimetric Method	2 mg/L to 10,000 mg/L
		Non-Filterable residue/TSS (Total Suspended Solids)	IS 3025 (Part-17) by Gravimetric Method	2 mg/L to 1000 mg/L
		Volatile Residue	IS 3025 (Part-18) by Gravimetric Method	10 mg/L to 10,000 mg/L
		Fixed Residue	IS 3025 (Part-18) by Gravimetric Method	10 mg/L to 10,000 mg/L
		Chloride as Cl <sup>-</sup>	IS 3025 (Part-32) by Argentometric method	2 mg/L to 40,000 mg/L
		Sulphate as SO <sub>4</sub> <sup>-2</sup>	IS 3025 (Part-24) by Turbidity Method	1 mg/L to 40,000 mg/L

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**Certificate Number** TC-5087

Page 2 of 11

**Validity** 19.12.2018 to 18.12.2020

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		Sulphide as S <sup>2-</sup>	IS 3025 (Part-29) by Methylene blue Method	2 mg/L to 1000 mg/L
		Sulphite as SO <sub>3</sub> <sup>2-</sup>	IS 3025 (Part-28) by Iodide-Iodate Titrimetric Method	2 mg/L to 100 mg/L
		Silica as SiO <sub>2</sub>	IS 3025 (Part-35) by Molybdo Silicate Method-B	0.3 mg/L to 1000 mg/L
		Nitrate Nitrogen as NO <sub>3</sub> -N	IS 3025 (Part-34) by Chromotropic acid method	1.0 mg/L to 1000mg/L
		Nitrite Nitrogen as NO <sub>2</sub> -N	IS 3025 (Part-34) by Spectrophotometric method	0.1 mg/L to 100 mg/L
		Ammonical Nitrogen as NH <sub>3</sub> -N	IS 3025 (Part-34) by Titration method	1 mg/L to 1000 mg/L
		Total Kjeldahl Nitrogen as N	IS 3025 (Part-34) by TKN Distillation Method	0.1 mg/L to 1000 mg/L
		Hardness as CaCO <sub>3</sub>	IS 3025 (Part-21) by EDTA Titrimetric Method	5 mg/L to 50000 mg/L
		Calcium as Ca <sup>2+</sup>	IS 3025 (Part-40) by EDTA Titrimetric Method	0.8 mg/L to 8000 mg/L
		Magnesium as Mg <sup>2+</sup>	IS 3025 (Part-46) by EDTA Titrimetric Method	0.5 mg/L to 5000 mg/L
		Sodium as Na <sup>+</sup>	IS 3025 (Part-45) by Flame photometric Method	0.5 mg/L to 90000 mg/L
		Potassium as K <sup>+</sup>	IS 3025 (Part-45) by Flame photometric Method	0.5 mg/L to 90000 mg/L
		Fluorides as F <sup>-</sup>	IS 3025 (Part-60) by Selective Ion Electrode Method	0.05 mg/L to 100 mg/L
		Residual Chlorine as Cl <sup>-</sup>	IS 3025 (Part-26) by Iodometric method	1.0 mg/L to 100 mg/L
		Total Phosphorus as P	IS 3025 (Part-31) by Vanadomolybdo-Phosphoric acid Method	0.05 mg/L to 500 mg/L

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5087

Page 3 of 11

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Total Cyanides as CN <sup>-</sup>	IS 3025 (Part-27) by Ion Selective electrode method	0.02 mg/L to 100 mg/L
		Boron as B	APHA; 23 <sup>rd</sup> Edition; 4500 B:2017 by Curcumin method	0.1 mg/L to 1000 mg/L
		Cadmium as Cd	TLC/L/SOP/W-829, Issue /Rev.no: 02/00, Effective date 28.10.2018 by AAS	0.1 mg/L to 200 mg/L
		Total Chromium as Cr	TLC/L/SOP/W-829, Issue /Rev.no: 02/00, Effective date 28.10.2018 by AAS	0.1 mg/L to 1000 mg/L
		Hexavalent Chromium as Cr <sup>+6</sup>	TLC/L/SOP/W-829, Issue /Rev.no: 02/00, Effective date 28.10.2018 by AAS	0.05 mg/L to 1000 mg/L
		Iron as Fe	TLC/L/SOP/W-829, Issue /Rev.no: 02/00, Effective date 28.10.2018 by AAS	0.1 mg/L to 1000 mg/L
		Lead as Pb	TLC/L/SOP/W-829, Issue /Rev.no: 02/00, Effective date 28.10.2018 by AAS	0.5 mg/L to 1000 mg/L
		Manganese as Mn	TLC/L/SOP/W-829, Issue /Rev.no: 02/00, Effective date 28.10.2018 by AAS	0.1 mg/L to 1000 mg/L
		Nickel as Ni	TLC/L/SOP/W-829, Issue /Rev.no: 02/00, Effective date 28.10.2018 by AAS	0.3 mg/L to 1000 mg/L

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5087

Page 4 of 11

Validity 19.12.2018 to 18.12.2020

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Silver as Ag	TLC/L/SOP/W-829, Issue /Rev.no: 02/00, Effective date 28.10.2018 by AAS	0.1 mg/L to 50 mg/L
		Zinc as Zn	TLC/L/SOP/W-829, Issue /Rev.no: 02/00, Effective date 28.10.2018 by AAS	0.1 mg/L to 500 mg/L
		Copper as Cu	TLC/L/SOP/W-829, Issue /Rev.no: 02/00, Effective date 28.10.2018 by AAS	0.1 mg/L to 1000 mg/L
		Aluminum as Al	TLC/L/SOP/W-829, Issue /Rev.no: 02/00, Effective date 28.10.2018 by AAS	2 mg/L to 500mg/L
		Lithium as Li	APHA; 23 <sup>rd</sup> Edition; 3500-Li-B-2017 by Flame photometer	1 mg/L to 1000 mg/L
		Dissolved Oxygen	IS 3025 (Part-38) by Titrimetric Method	1 mg/L to 8 mg/L
		Oil & Grease	IS 3025 (Part-39) by Partition Gravimetric Method	2 mg/L to 10000 mg/L
		Chemical Oxygen Demand	IS 3025 (Part-58) by Open reflex Method	4 mg/L to 30000 mg/L
		Biochemical Oxygen Demand (3 Days at 27 <sup>o</sup> C)	IS 3025 (Part-44) by Bio-assay/Oxygen depletion method	5 mg/L to 20000 mg/L
		Phenolic Compounds (as Phenols)	IS 3025 (Part-43) by Spectrophotometric Method	0.1 mg/L to 100 mg/L

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5087

Page 5 of 11

Validity 19.12.2018 to 18.12.2020

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
II.	<b>WATER</b>			
1.	<b>Bore Water &amp; Surface Water</b>	pH at 25°C	IS 3025 (Part-11) by Potentiometric method	2 to 12
		Color	IS 3025 (Part-4) by Visible Spectrophotometric method	1 Hazen units to 500 Hazen units
		Temperature	IS 3025 (Part-9)	20°C to 50°C
		Conductivity at 25°C	APHA; 23 <sup>rd</sup> Edition; 2510-B:2017 by Conductivity meter	1 µs/Cm to 10000 µs/Cm
		Turbidity	IS 3025 (Part-10) by Nephelo-Turbidity Method	0.1 NTU to 1000 NTU
		Acidity as CaCO <sub>3</sub>	IS 3025 (Part-22) by Titration Method	2 mg/L to 1000 mg/L
		Alkalinity as CaCO <sub>3</sub>	IS 3025 (Part-23) by Titration Method	2 mg/L to 1000 mg/L
		Total Solids	IS 3025 (Part-15) by Gravimetric Method	2 mg/L to 10,000 mg/L
		Total Dissolved Solids	IS 3025 (Part-16) by Gravimetric Method	2 mg/L to 10,000 mg/L
		Total Suspended Solids	IS 3025 (Part-17) by Gravimetric Method	2 mg/L to 1000 mg/L
		Fixed Solids	IS 3025 (Part-18) by Gravimetric Method	10 mg/L to 10,000 mg/L
		Volatile Solids	IS 3025 (Part-18) by Gravimetric Method	10 mg/L to 10,000 mg/L
		Chlorides as Cl <sup>-</sup>	IS 3025 (Part-32) by Argentometric method	2 mg/L to 40,000 mg/L
		Sulphate as SO <sub>4</sub> <sup>2-</sup>	IS 3025 (Part-24) by Turbidity Method	1 mg/L to 40,000 mg/L
		Sulphide as S <sup>2-</sup>	IS 3025 (Part-29) by Methylene blue Method	2 mg/L to 1000 mg/L

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**Certificate Number** TC-5087

Page 6 of 11

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		Sulphite as $\text{SO}_3^{2-}$	IS 3025 (Part-28) by Iodide-Iodate Titrimetric Method	2 mg/L to 100 mg/L
		Silica as $\text{SiO}_2$	IS 3025 (Part-35) by Molybdo Silicate Method-B	0.3 mg/L to 1000 mg/L
		Nitrate Nitrogen as $\text{NO}_3\text{-N}$	IS 3025 (Part-34) by Chromotropic acid method	1 mg/L to 1000 mg/L
		Nitrite Nitrogen as $\text{NO}_2\text{-N}$	IS 3025 (Part-34) by Spectrophotometric method	0.1 mg/L to 100 mg/L
		Ammonical Nitrogen as $\text{NH}_3\text{-N}$	IS 3025 (Part-34) by Titration method	1 mg/L to 1000 mg/L
		Total Kjeldahal Nitrogen as N	IS 3025 (Part-34) by TKN Distillation Method	1 mg/L to 1000 mg/L
		Total Hardness as $\text{CaCO}_3$	IS 3025 (Part-21) by EDTA Titrimetric Method	5 mg/L to 50000 mg/L
		Calcium as $\text{Ca}^{2+}$	IS 3025 (Part-40) by EDTA Titrimetric Method	0.8 mg/L to 8000 mg/L
		Magnesium as $\text{Mg}^{2+}$	IS 3025 (Part-46) by EDTA Titrimetric Method	0.5 mg/L to 5000 mg/L
		Sodium as $\text{Na}^+$	IS 3025 (Part-45) by Flame photometric Method	0.5 mg/L to 90000 mg/L
		Potassium as $\text{K}^+$	IS 3025 (Part-45) by Flame photometric Method	0.5 mg/L to 90000 mg/L
		Fluorides as $\text{F}^-$	IS 3025 (Part-60) by Selective Ion Electrode Method	0.05 mg/L to 100 mg/L
		Residual Chlorine as $\text{Cl}^-$	IS 3025 (Part-26) by Iodometric method	1.0 mg/L to 100 mg/L
		Total Phosphorus as P	IS 3025 (Part-31) by Vanadomolybdo-Phosphoric acid Method	0.05 mg/L to 500 mg/L
		Total Cyanides as $\text{CN}^-$	IS 3025 (Part-27) by Ion Selective electrode method	0.02 mg/L to 100 mg/L

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Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5087

Page 7 of 11

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Boron as B	APHA; 23 <sup>rd</sup> Edition; 4500 B:2017 by Curcumine method	0.1 mg/L to 100 mg/L
		Cadmium as Cd	TLC/L/SOP/W-829, Issue /Rev.no: 02/00, Effective date 28.10.2018 by AAS	0.1 mg/L to 50 mg/L
		Total Chromium (as Cr)	TLC/L/SOP/W-829, Issue /Rev.no: 02/00, Effective date 28.10.2018 by AAS	0.1 mg/L to 100 mg/L
		Hexavalent Chromium as Cr <sup>+6</sup>	TLC/L/SOP/W-829, Issue /Rev.no: 02/00, Effective date 28.10.2018 by AAS	0.05 mg/L to 100 mg/L
		Iron as Fe	TLC/L/SOP/W-829, Issue /Rev.no: 02/00, Effective date 28.10.2018 by AAS	0.1 mg/L to 1000 mg/L
		Lead as Pb	TLC/L/SOP/W-829, Issue /Rev.no: 02/00, Effective date 28.10.2018 by AAS	0.5 mg/L to 500 mg/L
		Manganese as Mn	TLC/L/SOP/W-829, Issue /Rev.no: 02/00, Effective date 28.10.2018 by AAS	0.1 mg/L to 500 mg/L
		Nickel as Ni	TLC/L/SOP/W-829, Issue /Rev.no: 02/00, Effective date 28.10.2018 by AAS	0.3 mg/L to 1000 mg/L
		Silver as Ag	TLC/L/SOP/W-829, Issue /Rev.no: 02/00,	0.1 mg/L to 50 mg/L

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Certificate Number TC-5087

Page 8 of 11

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
			Effective date 28.10.2018 by AAS	
		Zinc as Zn	TLC/L/SOP/W-829, Issue /Rev.no: 02/00, Effective date 28.10.2018 by AAS	0.1 mg/L to 500 mg/L
		Copper as Cu	TLC/L/SOP/W-829, Issue /Rev.no: 02/00, Effective date 28.10.2018 by AAS	0.1 mg/L to 1000 mg/L
		Aluminium as Al	TLC/L/SOP/W-829, Issue /Rev.no: 02/00, Effective date 28.10.2018 by AAS	2 mg/L to 500 mg/L
		Lithium as Li	APHA; 23 <sup>rd</sup> Edition; 3500-Li-B-2017 by Flame photometer method	1 mg/L to 1000 mg/L
		Dissolved Oxygen	IS 3025 (Part-38) by Titrimetric Method	1 mg/L to 8 mg/L
		Oil & Grease	IS 3025 (Part-39) by Partition Gravimetric Method	2 mg/L to 10000 mg/L
		Chemical Oxygen Demand	IS 3025 (Part-58) by Open reflex Method	4 mg/L to 30000 mg/L
		Biochemical Oxygen Demand(BOD) For 3 Days at 27°C	IS 3025 (Part-44) by Bio-assay/Oxygen depletion method	5 mg/L to 20000 mg/L
		Phenolic Compounds as Phenols	IS 3025 (Part-43) by Spectrophotometer	0.1 mg/L to 100 mg/L



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Certificate Number TC-5087

Page 9 of 11

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III.	SOIL			
1.	Soil	pH	Methods of Soil, plant, and water Analysis: ICARDA (3 <sup>rd</sup> Edition) Page no. 65 by Potentiometric Method	0.1 to 13
		Conductivity	Methods of Soil, plant, and water Analysis: ICARDA (3 <sup>rd</sup> Edition) Page no.67 by Potentiometric Method	0.1 ds/m to 5000 ds/m
		Bulk Density	Methods of Soil, plant, and water Analysis: ICARDA (3 <sup>rd</sup> Edition) Page no. 45 by Core and clod Method	1.0 g/cc to 3 g/cc
		Moisture content	Methods of Soil, plant, and water Analysis: ICARDA (3 <sup>rd</sup> Edition) Page no. 26 by Gravimetric Method	1 % to 50 %
		Calcium as Ca	Methods of Soil, plant, and water Analysis: ICARDA (3 <sup>rd</sup> Edition) Page no.113 by EDTA Titrimetric Method	5 mg/kg to 2000 mg/kg
		Magnesium as Mg	Methods of Soil, plant, and water Analysis: ICARDA (3 <sup>rd</sup> Edition) Page no. 113 by EDTA Titrimetric Method	5 mg/kg to 2000 mg/kg
		Chlorides as Cl	Methods of Soil, plant, and water Analysis: ICARDA (3 <sup>rd</sup> Edition) Page no. 118 by Argentometric Method	5 mg/kg to 5000 mg/kg

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Accreditation Standard ISO/IEC 17025: 2005

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Page 10 of 11

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		Sulphates as SO <sub>4</sub>	Methods of Soil, plant, and water Analysis: ICARDA (3 <sup>rd</sup> Edition) Page no. 120 by Turbidimetric Method	5 mg/kg to 5000 mg/kg
		Sodium as Na	Methods of Soil, plant, and water Analysis ICARDA (3 <sup>rd</sup> Edition) Page no. 111 by Flame Photometric Method	2 mg/kg to 10000 mg/kg
		Potassium as K	Methods of Soil, plant, and water Analysis: ICARDA (3 <sup>rd</sup> Edition) Page no. 108 by Flame Photometric Method	2 mg/kg to 10000 mg/kg
		Total Phosphorus as P	Methods of Soil, plant, and water Analysis: ICARDA (3 <sup>rd</sup> Edition) Page no. 100 by Spectrophotometric Method	0.01% to 10 %
		Kjeldahl Nitrogen	Methods of Soil, plant, and water Analysis: ICARDA (3 <sup>rd</sup> Edition) Page no. 143 by Steam Distillation	5 mg/kg to 1000 mg/kg
		Iron as Fe	SW 846:3050B & 7000B by AAS Method	10 mg/kg to 1000 mg/kg
		Copper as Cu	SW 846:3050B & 7000B by AAS Method	10 mg/kg to 100 mg/kg
		Chromium Cr	SW 846:3050B & 7000B by AAS Method	10 mg/kg to 100 mg/kg
		Cadmium as Cd	SW 846:3050B & 7000B by AAS Method	1 mg/kg to 100 mg/kg
		Lead as Pb	SW 846:3050B & 7000B by AAS Method	10 mg/kg to 100 mg/kg
		Manganese as Mn	SW 846:3050B & 7000B by AAS Method	10 mg/kg to 1000 mg/kg

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Page 11 of 11

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		Zinc as Zn	SW 846:3050B & 7000B by AAS Method	1 mg/kg to 100 mg/kg
		Nickel as Ni	SW 846:3050B & 7000B by AAS Method	10 mg/kg to 100 mg/kg
		Silver as Ag	SW 846:3050B & 7000B by AAS Method	10 mg/kg to 100 mg/kg
<b>IV.</b>	<b>ATMOSPHERIC POLLUTION</b>			
<b>1.</b>	<b>Ambient Air</b>	Sulphur Dioxide	IS 5182 (Part-2) by West & Geake Method	6 µg/m <sup>3</sup> to 1050 µg/m <sup>3</sup>
		Oxides of Nitrogen	IS 5182 (Part-6) by Jacob & Hochheiser Method	6 µg/m <sup>3</sup> to 740 µg/m <sup>3</sup>
		Ozone/Oxidants	IS 5182 (Part-9) by Colorimetric Method	0.01 µg/m <sup>3</sup> to 10 µg/m <sup>3</sup>
		Lead	IS 5182 (Part-22) by AAS Method	0.01 µg/m <sup>3</sup> to 10 µg/m <sup>3</sup>
		Particulate Matter PM <sub>2.5</sub> (Size Less than 2.5 µm)	TLC/L/SOP/A-506 Issue/Rev no:01/00; Effective date 01.04.2013 by Gravimetric Method	10 µg/m <sup>3</sup> to 1000 µg/m <sup>3</sup>
		Particulate Matter PM <sub>10</sub> (Size Less than 10µm)	IS 5182 (Part-23) by Gravimetric Method/ Cyclonic Flow Technique	10 µg/m <sup>3</sup> to 1000 µg/m <sup>3</sup>
		Ammonia/Sampling of gaseous pollutants	TLC/L/SOP/A-508 Issue/Rev no:01/00; Effective date 01.04.2013 by Indophenol Blue Method	1 mg/m <sup>3</sup> to 100 mg/m <sup>3</sup>
<b>2.</b>	<b>Stack Emissions</b>	Suspended Particulate Matter	IS 11255 part 1	1 mg/Nm <sup>3</sup> to 2000 mg/Nm <sup>3</sup>
		Sulphur Dioxide	IS 11255 part 2	3 mg/Nm <sup>3</sup> to 500 mg/Nm <sup>3</sup>
		Oxides of Nitrogen	IS 11255 part 7	2 mg/Nm <sup>3</sup> to 300 mg/Nm <sup>3</sup>