

Laboratory Maharashtra Institute of Technology, Center for Analytical Research and Studies (MIT-CARS), MIT Campus Beed Bye-Pass Road, Satara Village Road, Aurangabad, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-8242

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Validity 01.01.2019 to 31.12.2020

Last Amended on --

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|-----|----------------------------|-------------------------|---|--|
|-----|----------------------------|-------------------------|---|--|

CHEMICAL TESTING

| I. | WATER | | | |
|----|---|---------------------------------------|---|------------------------|
| 1. | Ground water, Surface water, Industrial Water, Irrigation Water, Drinking Water | Color | IS 3025 (Part 4) (Platinum Cobalt Visible Comparison Method) APHA 2120B, 23 rd Edition | 2 to 100 |
| | | Odor | IS 3025 (Part 5) | Qualitative |
| | | Turbidity | IS 3025 (Part 10) APHA 2130 B, 23 rd Edition | 0.1 NTU to 100 NTU |
| | | Total Dissolved Solids (TDS) @ 105 °C | IS 3025 (Part 16) | 10 mg/L to 10000 mg/L |
| | | pH | IS 3025 (Part 11) APHA 4500-H+B, 23 rd Edition | 2 to 12 |
| | | Electrical Conductivity | IS 3025 (Part 14) APHA 2510 B, 23 rd Edition | 2 µS/cm to 20000 µS/cm |
| | | Iron as Fe | IS 3025 (Part 53) APHA 3111 B, 23 rd Edition | 0.02 mg/L to 10 mg/L |
| | | Nitrate as NO ₃ | APHA 4500-NO ₃ B 23 rd Edition | 0.1 mg/L to 200 mg/L |
| | | Nitrite as NO ₂ | IS 3025 (Part 34) APHA 4500-NO ₂ B 23 rd Edition | 0.01 mg/L to 10 mg/L |
| | | Chloride as Cl | IS 3025 (Part 32) APHA 4500-Cl-B 23 rd Edition | 2 mg/L to 2000 mg/L |
| | | Fluoride as F | APHA 4500-F·D 23 rd Edition (SPADNS) IS 3025 (Part 60) | 0.1 mg/L to 10 mg/L |

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|-----|----------------------------|---|--|---|
| | | Sulphate as SO ₄ | IS 3025 (Part 24) APHA 4500-SO ₄ E, 23 rd Edition | 4 mg/L to 1000 mg/L |
| | | Total Alkalinity as CaCO ₃ (P and M Alkalinity) | IS 3025 (Part 23) APHA 2320 B, 23 rd Edition | 2 mg/L to 1000 mg/L |
| | | Carbonates as CO ₃ | IS 3025 (Part 23) APHA 2320 B, 23 rd Edition | 0.01 mg/L to 200 mg/L |
| | | Bicarbonates as HCO ₃ | IS 3025 (Part 23) APHA 2320 B, 23 rd Edition | 0.1 mg/L to 200 mg/L |
| | | Calcium as Ca | IS 3025 (Part 40) APHA 3500-Ca B 23 rd Edition | 1 mg/L to 1000 mg/L |
| | | Total Hardness as CaCO ₃ | IS 3025 (Part 21) APHA 2340 C, 23 rd Edition | 5 mg/L to 2000 mg/L |
| | | Magnesium as Mg | IS 3025 (Part 46) APHA 3500-Mg B 23 rd Edition | 1 mg/L to 400 mg/L |
| | | Sodium as Na | IS 3025 (Part 45) APHA 3500-Na B 23 rd Edition | 1 mg/L to 1000 mg/L |
| | | Potassium as K | IS 3025 (Part 45) APHA 3500-K B 23 rd Edition | 1 mg/L to 400 mg/L |
| | | Residual chlorine | IS 3025 (Part 26) Iodometric Method | 0.1 mg/L to 5.0 mg/L 1 mg/L to 10 mg/L |
| | | Boron as B | IS 13428 (Annexure H) APHA 4500-B, 23 rd Edition | 0.1 mg/L to 5.0 mg/L |
| | | Silica as SiO ₂ | IS 3025 (Part 35) APHA 4500 – SiO ₂ C, 23 rd Edition | 0.1 mg/L to 60 mg/L |

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|------------|---|---------------------------------|--|--|
| | | Residual Sodium Carbonate (RSC) | IS 11624 (by Calculation) $\text{CO}_3^{2-} + \text{HCO}_3^- - \text{Ca}^{2+} - \text{Mg}^{2+}$ | 0.1 meq/L to 20 meq/L |
| | | Sodium Absorption Ratio (SAR) | IS 11624 | 1 meq/L to 50 meq/L |
| II. | RESIDUES IN WATER (Trace Metals) | | | |
| 1. | Trace Metal Elements | Barium as Ba | IS 15302 APHA 3111 B, 23 rd Edition (by ICP-OES Method) | 0.1 mg/L to 10 mg/L |
| | | Copper as Cu | APHA 3111 B, 23 rd Edition (by ICP-OES Method) | 0.01 mg/L to 10 mg/L |
| | | Manganese as Mn | 3111 B-APHA 23 rd Edition (by ICP-OES Method) | 0.02 mg/L to 10 mg/L |
| | | Selenium as Se | APHA 3114 C, 23 rd Edition (by ICP-OES Method) | 0.01 mg/L to 10 mg/L |
| | | Silver as Ag | APHA 3111 B, 23 rd Edition (by ICP-OES Method) | 0.02 mg/L to 10 mg/L |
| | | Zinc as Zn | APHA 3111 B, 23 rd Edition (by ICP-OES Method) | 0.02 mg/L to 10 mg/L |
| | | Cadmium as Cd | APHA 3111 C, 23 rd Edition (by ICP-OES Method) | 0.003 mg/L to 10 mg/L |
| | | Lead as Pb | IS 3025 (Part 47) APHA 3111 C, 23 rd Edition (by ICP-OES Method) | 0.01 mg/L to 10 mg/L |
| | | Mercury as Hg | APHA 3112 B, 23 rd Edition (by ICP-OES Method) | 0.001 mg/L to 5 mg/L |
| | | Nickel as Ni | APHA 3111 C, 23 rd Edition (by ICP-OES Method) | 0.01 mg/L to 10 mg/L |
| | | Total Arsenic as As | APHA 3114 C, 23 rd Edition (by ICP-OES Method) | 0.01 mg/L to 10 mg/L |

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|------|---|---|---|--|
| | | Total Chromium | APHA 3111 C, 23 rd Edition (by ICP–OES Method) | 0.01 mg/L to 10 mg/L |
| | | Aluminum as Al | IS 3025 (Part 55) APHA 3500 Al B 23 rd Edition | 0.02 mg/L to 10 mg/L |
| III. | POLLUTION AND ENVIRONMENT | | | |
| 1. | Waste Water (Effluent/Sewage), ETP/STP Water, Liquid Effluents and Aeration Tank Water | Color | AHPA 2120 D 23 rd Edition | Qualitative |
| | | pH | IS 3025 (Part 11) APHA 4500 H+ B 23 rd Edition | 2 to 12 |
| | | Total Dissolved Solids (TDS) at 105 °C | IS 3025 (Part 16) | 10 mg/L to 10000 mg/L |
| | | Total Suspended Solids (TSS) | IS 3025 (Part 17) APHA 2540 D, 23 rd Edition | 10 mg/L to 1000 mg/L |
| | | Mixed Liquor Suspended Solids (MLSS) | IS 3025 (Part 17) APHA 2540 D, 23 rd Edition | 100 mg/L to 5000 mg/L |
| | | Total Volatile Suspended Solids (TVSS) | IS 3025 (Part 18) APHA 2540 E, 23 rd Edition | 10 mg/L to 1000 mg/L |
| | | Mixed liquor volatile suspended solid (MLVSS) | IS 3025 (Part 18) APHA 2540 E, 23 rd Edition | 100 mg/L to 5000 mg/L |
| | | Temperature | APHA 2550 B, 23 rd Edition | 20 °C to 50 °C |
| | | Hexavalent Chromium as Cr ⁶⁺ | IS 3025 (Part 52) APHA 3500-Cr B 23 rd Edition | 0.05 mg/L to 10 mg/L |
| | | Residual Free Chlorine | IS 3025 (Part 26) Iodometric Method | 1 mg/L to 10 mg/L |
| | Chloride as Cl | IS 3025 (Part-32) APHA 4500-Cl-B & C 23 rd Edition | 10 mg/L to 5000 mg/L | |

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| | | Sulphide as S ²⁻ | APHA 4500-S ²⁻ , F-23 rd Edition | 1.0 mg/L to 20 mg/L |
| | | Ammonical Nitrogen as N | IS 3025 (Part 34) APHA 4500-NH ₃ C 23 rd Edition | 0.5 mg/L to 50 mg/L |
| | | Total Kjeldahl Nitrogen as N | IS 3025 (Part 34) APHA 4500-N(org) B 23 rd Edition | 1 mg/L to 200 mg/L |
| | | Phosphorous as P | IS 3025 (Part 31) APHA 4500-P D & E 23 rd Edition | 0.1 mg/L to 50 mg/L |
| | | Sulphate as SO ₄ | IS 3025 (Part 24) | 1 mg/L to 5000 mg/L |
| | | Biochemical Oxygen Demand (BOD ₃) for 3 days @ 27 °C | IS 3025 (Part 44) | 2 mg/L to 2000 mg/L |
| | | Chemical Oxygen Demand (COD) | IS 3025 (Part 58) APHA 5220 B, 23 rd Edition | 4 mg/L to 6000 mg/L |
| | | Oil and Grease | IS 3025 (Part 39) APHA 5520 B, 23 rd Edition | 1 mg/L to 1000 mg/L |
| | | Phenolic Compounds | IS 3025 (Part 43) APHA 5530 B, C & D 23 rd Edition | 0.001 mg/L to 10 mg/L |
| | | Cyanide as CN | APHA 4500 CNE, 23 rd Edition | 0.02 mg/L to 10 mg/L |
| | | Boron as B | IS 13428 (Annexure H) APHA 4500-B, B 23 rd Edition | 0.1 mg/L to 5.0 mg/L |
| | | Iron as Fe | APHA 3111 B, 23 rd Edition | 0.02 mg/L to 100 mg/L |
| | | Manganese as Mn | APHA 3111 B, 23 rd Edition | 0.02 mg/L to 100 mg/L |
| | | Fluoride as F | IS 3025 (Part 60) APHA 4500-F-D 23 rd Edition | 0.1 mg/L to 5.0 mg/L |

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|-----------|----------------------------|--|---|--|
| | | Total Arsenic as As | APHA 3114C, 23 rd Edition (by ICP-OES Method) | 0.01 mg/L to 10 mg/L |
| | | Mercury as Hg | APHA 3112 B, 23 rd Edition (by ICP-OES Method) | 0.001 mg/L to 1.0 mg/L |
| | | Lead as Pb | APHA 3111C, 23 rd Edition (by ICP-OES Method) | 0.02 mg/L to 10 mg/L |
| | | Cadmium as Cd | APHA 3111 B, 23 rd Edition (by ICP-OES Method) | 0.01 mg/L to 10 mg/L |
| | | Total Chromium as Cr | APHA 3111 B, 23 rd Edition (by ICP-OES Method) | 0.02 mg/L to 10 mg/L |
| | | Copper as Cu | APHA 3111 B, 23 rd Edition (by ICP-OES Method) | 0.02 mg/L to 10 mg/l |
| | | Zinc as Zn | APHA 3111 B, 23 rd Edition (by ICP-OES Method) | 0.02 mg/L to 10 mg/l |
| | | Selenium as Se | APHA 3114 C, 23 rd Edition (by ICP-OES Method) | 0.01 mg/L to 10 mg/l |
| | | Nickel as Ni | APHA 3111 B, 23 rd Edition (by ICP-OES Method) | 0.02 mg/L to 10 mg/l |
| | | Vanadium as V | APHA 3500VB, 23 rd Edition | 0.01 mg/L to 10 mg/l |
| 2. | Soils | pH | FAO Method 2007 Page No. 41 to 42 | 1 to 14 |
| | | Conductivity | FAO Method 2007 Page No. 43 to 44 | 2 μS/cm to 5000 μS/cm |
| | | Moisture | FAO Method 2008 Page No. 31 to 32 | 1% to 50 % |
| | | Organic Carbon | FAO Method 2008 Page No. 39 to 40 | 0.1% to 5 % |
| | | Organic Matter | FAO Method 2007 Page No. 61 & 62 | 0.2% to 20 % |
| | | Exchangeable / Available Sodium as Na ₂ O | ICARDA, 2013 Page No. 111 & 112 | 2 meq % to 1000 meq % |

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|------------|---------------------------------|--|---|--|
| | | Exchangeable / Available Potassium as K ₂ O | FAO Method 2008 Page No. 53 & 54 | 4.46 mg/kg to 446.42 mg/kg |
| | | Exchangeable / Available Calcium as Ca | FAO Method 2008 Page No. 57 to 59 | 10 meq% to 10000 meq% |
| | | Exchangeable / Available Magnesium as Mg | FAO Method 2008 Page No. 57 to 59 | 10 meq % to 2000 meq % |
| | | Sodium Absorption Ratio (SAR) | IS 11624 | 0.05 meq/100g to 5.0 meq/100g |
| | | Available Nitrogen as N | FAO Method 2008 Page No. 44 & 45 | 4.46 mg/kg to 446.42 mg/kg |
| | | Available Phosphorous as P ₂ O ₅ | FAO Method 2007 Page No. 75 to 76 | 0.89 mg/kg to 446.42 mg/kg |
| | | Water Extractable Chloride as Cl | FAO Method 2007 Page No. 48 | 10 mg/kg to 1000 mg/kg |
| | | Available Sulphur | FAO Methods 2007 (Page No. 80 to 81) | 1 mg/kg to 500 mg/kg |
| | | Hexavalent chromium as Cr ⁶⁺ | 7196 A, EPA SW-846 and 3060 A1-15 | 0.1 mg/kg to 250 mg/kg |
| IV. | ATMOSPHERIC POLLUTION | | | |
| 1. | Source / Stack Emissions | Particulate Matter | IS 11255 (Part 1) | 5 mg/Nm ³ to 1000 mg/Nm ³ |
| | | Sulphur Dioxide (SO ₂) | IS 11255 (Part 2) | 5 mg/Nm ³ to 2000 mg/Nm ³ |
| | | Oxides of Nitrogen (NO _x) | IS 11255 (Part 7) | 5 mg/Nm ³ to 1000 mg/Nm ³ |
| | | Flue gas Velocity | IS 11255 (Part 3) | 3 m/s to 30 m/s |
| | | Flow Rate | IS 11255 (Part 3) | 10 Nm ³ /hour to 1200000 Nm ³ /hour |

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|--------------|--|--|---|---|
| 2. | Ambient Air | Relative Humidity | IS 5182 (Part 4) | 10 % to 98 % |
| | | Temperature | IS 5182 (Part 4) | 10 °C to 50 °C |
| | | Suspended Particulate Matter (SPM) | IS 5182 (Part 4) | 5 µg/m ³ to 1000 µg/m ³ |
| | | Particulate Matter (PM ₁₀) | IS 5182 (Part 23) | 5 µg/m ³ to 1000 µg/m ³ |
| | | Particulate Matter (PM _{2.5}) | MIT-CARS/SOP/AA-02 Issue: 01 / 16-07-2014 | 2 µg/m ³ to 500 µg/m ³ |
| | | Sulphur Dioxide (SO ₂) | IS 5182 (Part 2) | 8 µg/m ³ to 500 µg/m ³ |
| | | Oxides of Nitrogen (NO _x) | IS 5182 (Part 6) | 4 µg/m ³ to 500 µg/m ³ |
| | | Ozone (O ₃) | IS 5182 (Part 9) | 5 µg/m ³ to 30 µg/m ³ |
| | | Ammonia (NH ₃) | MIT-CARS/SOP/AA-06 Issue No.: 01/ 05-06-2017 Ammonia (NH ₃) (Indophenol Blue Method) | 0.1 µg/m ³ to 1000 µg/m ³ |
| | | Arsenic (As) | USEPA-IO-3.2-1999 (by ICP-OES) | 1 ng/m ³ to 1000 ng/m ³ |
| | | Lead (Pb) | USEPA-IO-3.2-1999 (by ICP-OES) | 0.1 µg/m ³ to 10 µg/m ³ |
| Nickel (Ni) | USEPA-IO-3.2-1999 (by ICP-OES) | 10 ng/m ³ to 100 ng/m ³ | | |
| Mercury (Hg) | USEPA-IO-3.2-1999 (by ICP-OES) | 0.1 ng/m ³ to 100 ng/m ³ | | |
| 3. | Ambient Noise | Noise Level | IS 9989 | 40 dB(A) to 110 dB(A) |
| V. | FOOD & AGRICULTURAL PRODUCTS | | | |
| 1. | Leafy Vegetables (Spinach and Coriander) | Copper as Cu | AOAC 20 th Edition 2016 Chapter 3 985-01 | 30 mg/kg to 500 mg/kg |
| | | Molybdenum as Mo | AOAC 20 th Edition 2016 Chapter 3 960.05 | 0.1 mg/kg to 200 mg/kg |

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|-----|---|-------------------------|---|--|
| 2. | Leafy Vegetables (Spinach and Coriander) and beet root | Sodium as Na | AOAC 20 th Edition 2016 Chapter 3 956.1 | 0.5 mg/100g to 1000 mg/100g |
| | | Iron as Fe | AOAC 20 th Edition 2016 Chapter 3 928-03 | 0.2 mg/kg to 1000 mg/kg |
| 3. | Leafy Vegetables (Spinach and Coriander) and Sweet Potato | Manganese as Mn | AOAC 20 th Edition 2016 Chapter 3 985-01 | 20 mg/kg to 1000 mg/kg |
| | | Magnesium as Mg | AOAC 20 th Edition 2016 Chapter 3 985-01 | 1 mg/kg to 200 mg/kg |
| 4. | Leafy Vegetables (Spinach and Coriander) and Legumes (French Beans) | Total Nitrogen | AOAC 20 th Edition 2016 IS 7219 | 1 % to 20 % |
| 5. | Leafy Vegetables (Spinach and coriander) & onion | Phosphorus | AOAC 20 th Edition 2016 Chapter 3 966-01 | 0.5 % to 20 % |
| 6. | Leafy Vegetables (Spinach and Coriander) and Cucumber | Potassium as K | AOAC 20 th Edition 2016 Chapter 3 956-01 | 2.0 mg/100g to 100 mg/100g |
| 7. | Leafy Vegetables (Spinach and coriander) & garlic | Zinc as Zn | AOAC 20 th Edition 2016 Chapter 3 985-01 | 20 mg/kg to 500 mg/kg |
| 8. | Leafy Vegetables (Spinach and coriander) & onion broccoli, carrot | Boron as B | AOAC 20 th Edition 2016 Chapter 3 985-01 | 10 mg/kg to 50 mg/kg |
| 9. | Leafy Vegetables (Spinach and Coriander) & Okra | Calcium as Ca | AOAC 20 th Edition 2016 Chapter 3 985-01 | 0.1 mg/kg to 300 mg/kg |

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| | | | | |
| 10. | Oil seeds and products (Peanut, Sesame, Mustard, Castor, Sunflower and Safflower) | Moisture | IS 3579 | 0.5 g/100g to 50 g/100g |
| | | Ash | AOAC 20 th Edition 2016 Chapter 40 950.49 | 0.1 g/100g to 10 g/100g |
| | | Crude Protein | AOAC 20 th Edition 2016 Chapter 4, 2001.11 | 1 g/100g to 50 g/100g |
| | | Fat | IS 3579 | 1 g/100g to 70 g / 100 g |
| | | Crude fiber | AOAC 20 th Edition 2016 Chapter 4, 978.10 | 0.1 g/100g to 1 g/100g |