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|-----|----------------------------|-------------------------|---|---|
|     |                            |                         | performed   |   |

## **CHEMICAL TESTING**

| I. | WATER            |                                     |                        |                         |
|----|------------------|-------------------------------------|------------------------|-------------------------|
| 1. | Potable &        | Color                               | IS 3025 (Part-4):1983  | 1 to 500 Pt. Co units   |
|    | Domestic Water   | Specific Conductance                | IS 3025 (Part-14):2013 | 0.05mS/cm to 200mS/cm   |
|    | Surface & Ground | (Electrical Conductivity)           |                        |                         |
|    | Water            | pH Value                            | IS 3025 (Part-11):1983 | 1 to 14                 |
|    |                  | Temperature                         | IS 3025 (Part-9):1984  | 10°C to 60°C            |
|    |                  | Turbidity                           | IS 3025 (Part-10):1984 | 0.1 NTU to 50 NTU       |
|    |                  | Total Solids                        | IS 3025 (Part-15):1984 | 2 mg/l to 5000 mg/l     |
|    |                  | Total Dissolved Solids              | IS 3025 (Part-16):1984 | 2 mg/l to 5000 mg/l     |
|    |                  | Total Suspended Solids              | IS 3025 (Part-17):2017 | 2 mg/l to 500 mg/l      |
|    |                  | Inorganic Solids                    | IS 3025 (Part-18):1984 | 2 mg/l to 5000 mg/l     |
|    |                  | Organic Solids                      | IS 3025 (Part-18):1984 | 2 mg/l to 250 mg/l      |
|    |                  | Total Hardness                      | IS 3025 (Part-21):2009 | 5 mg/l to 1000 mg/l     |
|    |                  | (as CaCO <sub>3</sub> )             |                        |                         |
|    |                  | Calcium (as Ca)                     | IS 3025 (Part-40):1991 | 2 mg/l to 500 mg/l      |
|    |                  | Magnesium (as Mg)                   | IS 3025 (Part-46):1994 | 2 mg/l to 500 mg/l      |
|    |                  | Acidity (as CaCO <sub>3</sub> )     | IS 3025 (Part-22):1986 | 2 mg/l to 100 mg/l      |
|    |                  | Alkalinity                          | IS 3025 (Part-23):1986 | 2 mg/l to 500 mg/l      |
|    |                  | (as CaCO <sub>3</sub> )             |                        |                         |
|    |                  | Carbonate                           | IS 3025 (Part-51):2001 | 2 mg/l to 500 mg/l      |
|    |                  | (as CO <sub>3</sub> ) & Bicarbonate |                        |                         |
|    |                  | (as HCO <sub>3</sub> )              | 10 0005 (5 4 50) 0000  | 4 " 4 050 "             |
|    |                  | Chemical Oxygen                     | IS 3025 (Part-58):2006 | 4 mg/l to 250 mg/l      |
|    |                  | Demand (COD)                        | 10 0005 (D. + 44) 4000 | 0                       |
|    |                  | Biochemical Oxygen                  | IS 3025 (Part-44):1993 | 2 mg/l to 250 mg/l      |
|    |                  | Demand                              |                        |                         |
|    |                  | (BOD 3 days at 27 °C)               | IC 2025 (Dart 20):4020 | 0.2 ====/  t== 42 ====/ |
| -  |                  | Dissolved Oxygen                    | IS 3025 (Part-38):1989 | 0.2 mg/l to 12 mg/l     |
|    |                  | Chloride (as Cl <sup>-</sup> )      | IS 3025 (Part-32):1988 | 4 mg/l to 5000 mg/l     |
|    |                  | Sulphide (as S <sup>-2</sup> )      | IS 3025 (Part-29):1986 | 0.5 mg/l to 10 mg/l     |

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|-----|----------------------------|---|---|---|
|     |                            | Free Residual Chlorine                      | IS 3025 (Part-26):1986                                      | 0.5 mg/l to 10 mg/l                       |
|     |                            | Sulphate (as SO <sub>4</sub> -)             | IS 3025 (Part-24):1986                                      | 4 mg/l to 500 mg/l                        |
|     |                            | Phosphate<br>(as PO <sub>4</sub> -)         | IS 3025 (Part-31):1988                                      | 0.4 mg/l to 50 mg/l                       |
|     |                            | Nitrate<br>(Nitrogen as NO <sub>3</sub> -N) | IS 3025 (Part-34-3-B):<br>1988                              | 0.5 mg/l to 50 mg/l                       |
|     |                            | Nitrite<br>(Nitrogen as NO <sub>2</sub> -N) | IS 3025 (Part-34-4-B):<br>1988                              | 0.5 mg/l to 50 mg/l                       |
|     |                            | Oil & Grease                                | IS 3025 (Part-39):1991<br>APHA230C soluble                  | 1 mg/l to 10 mg/l                         |
|     |                            |   | FloatableOil@ grease method                                 | 5 mg/l to 100 mg/l                        |
|     |                            | Fluoride (as F <sup>-</sup> )               | APHA& AWWA. 23rdEd<br>4500-F-SPANDS Method                  | 0. 1 mg/l to 10 mg/l                      |
|     |                            | Phenols                                     | IS 3025 (Part-43):1992                                      | 0.01 mg/l to 10 mg/l                      |
|     |                            | Boron (as B)                                | IS 3025 (Part-57):2005                                      | 0.05 mg/l to 10 mg/l                      |
|     |                            | Silica (as Si)                              | IS 3025:Part-35-3 1988                                      | 0.05 mg/l to 50 mg/l                      |
|     |                            | Ammonical Nitrogen<br>(as NH₃-N)            | IS 3025 (Part-34):2014                                      | 0.2 mg/l to 500 mg/l                      |
|     |                            | Total Kjeldahl Nitrogen                     | IS 3025(Part-34-5-A):1988                                   | 0.5 mg/l to 50 mg/l                       |
|     |                            | Silica(as Si)                               | IS 3025(Part-35-3):1988                                     | 0.5 mg/l to 50 mg/l                       |
|     |                            | Hexavalent Chromium (as Cr <sup>+6</sup> )  | APHA & AWWA. 23 <sup>rd</sup> Ed.<br>3500 Cr-B. 3-69.       | 0.3 mg/l to 2 mg/l                        |
|     |                            | Sodium (as Na)                              | APHA & AWWA. 23 <sup>rd</sup> Ed.<br>3500 Na B. 3-97.       | 2 mg/l to 500 mg/l                        |
|     |                            | Potassium (as K)                            | APHA & AWWA. 23 <sup>rd</sup> Ed. 3500 K B. 3-87.           | 2 mg/l to 500 mg/l                        |
|     |                            | Aluminum (as Al)                            | APHA & AWWA. 23 <sup>rd</sup> Ed.<br>3111 D. 3-14           | 0.1 mg/l to 15 mg/l                       |
|     |                            | Arsenic (as As)                             | APHA & AWWA. 23 <sup>rd</sup> Ed.<br>3114. 3-34             | 0.1 mg/l to 2 mg/l                        |
|     |                            | Barium (as Ba)                              | APHA & AWWA. 23 <sup>rd</sup> Ed.<br>3111 D. 3-14.          | 0.1 mg/l to 15 mg/l                       |

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|-----|----------------------------|--|--|---|
|     |                            | Copper (as Cu)   | APHA & AWWA.23 <sup>rd</sup> Ed.<br>3111 B. 3-14             | 0.1 mg/l to 10 mg/l                       |
|     |                            | Cadmium (as Cd)  | APHA & AWWA. 23 <sup>rd</sup> Ed.<br>3111 B. 3-14            | 0.02 mg/l to 2 mg/l                       |
|     |                            | Iron (as Fe)   | APHA & AWWA. 23 <sup>rd</sup> Ed.<br>3111 B. 3-14            | 0.08 mg/l to 10 mg/l                      |
|     |                            | Lead (as Pb)   | APHA & AWWA. 23 <sup>rd</sup> Ed.<br>3111 B. 3-14            | 0.1 mg/l to 5 mg/l                        |
|     |                            | Mercury (as Hg)  | APHA & AWWA. 23 <sup>rd</sup> Ed. 3112. 3-23                 | 0.01 mg/l to 2 mg/l                       |
|     |                            | Manganese (as Mn)  | APHA & AWWA. 23 <sup>rd</sup> Ed.<br>3111 B. 3-14            | 0.4 mg/l to 10 mg/l                       |
|     |                            | Nickel (as Ni)   | APHA & AWWA. 23 <sup>rd</sup> Ed.<br>3111 B. 3-14            | 0.1 mg/l to 5 mg/l                        |
|     |                            | Selenium (as Se)   | APHA & AWWA. 23 <sup>rd</sup> Ed. 3114. 3-34                 | 0.04 mg/l to 2 mg/l                       |
|     |                            | Total Chromium (as Cr)   | APHA & AWWA. 23 <sup>rd</sup> Ed.<br>3111 B. 3-14            | 0.5 mg/l to 2 mg/l                        |
|     |                            | Zinc (as Zn)   | APHA & AWWA. 23 <sup>rd</sup> Ed.<br>3111 B. 3-14            | 0.1 mg/l to 10 mg/l                       |
| II. | ATMOSPHERIC PO             | OLLUTION   |  |   |
| 1.  | Ambient Air<br>Monitoring  | Respirable Suspended<br>Particulate Matter<br>(RSPM) (PM <sub>10</sub> ) | IS 5182 (Part-23):2017                                       | 10 μg/m³ to 500 μg/m³                     |
|     |                            | Fine Particulate Matter (PM <sub>2.5</sub> )                             | US EPA 4050<br>(Sep 1994 Rev 1)                              | 10 μg/m³ to 200μg/m³                      |
|     |                            | Sulphur Dioxide<br>(as SO <sub>2</sub> )                                 | IS 5182 (Part-2):2001  | 9 μg/m³ to 200 μg/m³                      |
|     |                            | Oxides of Nitrogen (as NOx)  | IS 5182 (Part-6):2017  | 6 μg/m³ to 250 μg/m³                      |
|     |                            | Ammonia (as NH <sub>3</sub> )  | Method of Air Sampling &<br>Analysis 2 <sup>nd</sup> Ed APHA | 20 μg/m³ to 700 μg/m³                     |

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|-----|----------------------------|--|--|---|
|     |                            | Chlorine (as Cl <sub>2</sub> )             | IS 5182 (Part-XIX):2014                                      | 20 μg/m <sup>3</sup> to 100 μg/m <sup>3</sup>   |
|     |                            | Chloride Content<br>(as Cl <sup>-</sup> )  | Method of Air Sampling &<br>Analysis 2 <sup>nd</sup> Ed APHA | 10 μg/m³ to 100 μg/m³                           |
|     |                            | Bromine (as Br <sub>2</sub> )              | Method of Air Sampling & Analysis 2 <sup>nd</sup> Ed APHA    | 10 μg/m³ to 100 μg/m³                           |
|     |                            | Hydrogen Bromide<br>(as HBr)               | Method of Air Sampling & Analysis 2 <sup>nd</sup> Ed APHA    | 10 μg/m³ to 100 μg/m³                           |
|     |                            | Hydrogen Sulphide<br>(as H <sub>2</sub> S) | IS 5182 (Part-VII):1973                                      | 10 μg/m³ to 600 μg/m³                           |
|     |                            | Carbon Disulphide (as CS <sub>2</sub> )    | IS 5182 (Part XX):1982                                       | 600 μg/m <sup>3</sup> to 2100 μg/m <sup>3</sup> |
|     |                            | Ozone (as O <sub>3</sub> )                 | IS 5182 (Part-9):2014  | 20 μg/m <sup>3</sup> to 200 μg/m <sup>3</sup>   |
|     |                            | Arsenic (as As)                            | EPA/625/R-96/010a,<br>IO-3.2, June 1999                      | 5 ng/m³ to 6 ng/m³                              |
|     |                            | Lead (as Pb)                               | IS 5182(Part-22):2004  | 0.1 μg/m <sup>3</sup> to 1μg/m <sup>3</sup>     |
|     |                            | Nickel (as Ni)                             | EPA/625/R-96/010a,<br>IO-3.2, June 1999                      | 5 ng/m³ to 20 ng/m³                             |
| 2.  | Stack Emission             | Particulate Matter                         | IS 11255 (Part-6):1999                                       | 5 mg/Nm <sup>3</sup> to 500 mg/Nm <sup>3</sup>  |
|     |                            | Sulphur Dioxide<br>(as SO <sub>2</sub> )   | IS 11255 (Part-2):1985                                       | 2 mg/Nm³ to 150 mg/Nm³                          |
|     |                            | Oxides of Nitrogen (as NO <sub>2</sub> )   | IS 11255 (Part-7):2005                                       | 2 mg/Nm <sup>3</sup> to 100 mg/Nm <sup>3</sup>  |
|     |                            | Ammonia (as NH <sub>3</sub> )              | IS 11255 (Part 6):1999                                       | 5 mg/Nm <sup>3</sup> to 500 mg/Nm <sup>3</sup>  |
|     |                            | Chlorine (as Cl <sub>2</sub> )             | GPCB Guideline Year 2012                                     | 5 mg/Nm <sup>3</sup> to 500 mg/Nm <sup>3</sup>  |
|     |                            | Hydrochloric Acid (as HCl)                 | EPA-26 A   | 5 mg/Nm <sup>3</sup> to 500 mg/Nm <sup>3</sup>  |
|     |                            | Bromine (as Br <sub>2</sub> )              | IS 11255 (Part-4):2017                                       | 5 mg/Nm <sup>3</sup> to 500 mg/Nm <sup>3</sup>  |
|     |                            | Hydrogen Bromide<br>(as HBr)               | GPCB Guideline Year<br>2012                                  | 5 mg/Nm³ to 500 mg/Nm³                          |
|     |                            | Carbon Disulphide (as CS <sub>2</sub> )    | IS 11255 (Part-4):2017                                       | 5 mg/Nm³ to<br>5000 mg/Nm³                      |
|     |                            | Hydrogen Sulphide<br>(as H₂S)              | IS 11255 (Part-4):2018                                       | 5 mg/Nm <sup>3</sup> to 500 mg/Nm <sup>3</sup>  |

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|------|----------------------------|--|---|---|
|      |                            | Oxygen (as O <sub>2</sub> )                    | IS 13270-1992   | 1 % to 20 %                               |
|      |                            | Carbon Dioxide<br>(as CO <sub>2</sub> )        | IS 13270-1992   | 1 % to 20 %                               |
| 3.   | Work Zone                  | Total VOCs as                                  | STP/WZ/01 Issue No. 02  | 5 ppm to 20,000 ppm                       |
|      | Monitoring                 | Isobutylene                                    | Dated 01/10/2015  |   |
| 4.   | Noise                      | Noise Level-<br>Ambient                        | IS 9989-1991  | 30 dB (A) to 100 dB (A)                   |
|      |                            | Noise Level-<br>Source                         | IS 4758-1968  | 30 dB (A) to 130 dB (A)                   |
| III. | POLLUTION & ENV            | IRONMENT                                       |   |   |
| 1.   | Waste Water                | Specific Conductance (Electrical Conductivity) | IS 3025 (Part-14):2013  | 1 μS/cm to 50000 μS/cm                    |
|      |                            | pH Value                                       | IS 3025 (Part-11):1983  | 1 to 14                                   |
|      |                            | Temperature                                    | IS 3025 (Part-9):1984   | 10°C to 60°C                              |
|      |                            | Turbidity                                      | IS 3025 (Part-10):1984  | 0.1 NTU to 100 NTU                        |
|      |                            | Total Solids                                   | IS 3025 (Part-15):1984  | 2 mg/l to 50000 mg/l                      |
|      |                            | Total Dissolved Solids                         | IS 3025 (Part-16):1984  | 2 mg/l to 50000 mg/l                      |
|      |                            | Total Suspended Solids                         | IS 3025 (Part-17):2017  | 2 mg/l to 5000 mg/l                       |
|      |                            | Inorganic Solids                               | IS 3025 (Part-18):1984  | 2 mg/l to 50000 mg/l                      |
|      |                            | Organic Solids                                 | IS 3025 (Part-18):1984  | 2 mg/l to 5000 mg/l                       |
|      |                            | Calcium (as Ca)                                | IS 3025 (Part-40):1991  | 1 mg/l to 500 mg/l                        |
|      |                            | Total Hardness<br>(as CaCO₃)                   | IS 3025 (Part-21):2009  | 5 mg/l to 5000 mg/l                       |
|      |                            | Magnesium<br>(as Mg)                           | IS 3025 (Part-46):1994  | 2 mg/l to 500 mg/l                        |
|      |                            | Acidity (as CaCO <sub>3</sub> )                | IS 3025 (Part-22):1986  | 2 mg/l to 1000 mg/l                       |
|      |                            | Alkalinity<br>(as CaCO <sub>3</sub> )          | IS 3025 (Part-23):1986  | 2 mg/l to 1000 mg/l                       |
|      |                            | Carbonate (as CO <sub>3</sub> )                | IS 3025 (Part-51):2001  | 5 mg/l to 600 mg/l                        |
|      |                            | Bicarbonate (as HCO <sub>3</sub> )             | IS 3025 (Part-51):2001  | 5 mg/l to 600 mg/l                        |

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|-----|----------------------------|--|---|---|
|     |                            | Biochemical Oxygen<br>Demand<br>BOD 3days at27°C | IS 3025 (Part-44):1993  | 2 mg/l to 50000 mg/l                      |
|     |                            | Chemical Oxygen Demand (COD)                     | IS 3025 (Part-58):2006  | 4 mg/l to 100000 mg/l                     |
|     |                            | Dissolved Oxygen                                 | IS 3025 (Part-38):1989  | 0.1 mg/l to 12 mg/l                       |
|     |                            | Chloride (as Cl <sup>-</sup> )                   | IS 3025 (Part-32):1988  | 1 mg/l to 50000 mg/l                      |
|     |                            | Sulphide (as S <sup>-2</sup> )                   | IS 3025 (Part-29):1986  | 0.1 mg/l to 50 mg/l                       |
|     |                            | Free Residual Chlorine                           | IS 3025 (Part-26):1986  | 0.2 mg/l to 50 mg/l                       |
|     |                            | Sulphate (as SO <sub>4</sub> -)                  | IS 3025 (Part-24):1986  | 4 mg/l to 5000 mg/l                       |
|     |                            | Ammonical Nitrogen<br>(as NH <sub>3</sub> -N)    | IS 3025 (Part-34):2014  | 0.5 mg/l to 500 mg/l                      |
|     |                            | Total Kjeldahl Nitrogen<br>(TKN)                 | IS 3025(Part-34-5-A):1988   | 2 mg/l to 5000 mg/l                       |
|     |                            | Phosphate<br>(as PO <sub>4</sub> -)              | IS 3025 (Part-31):1988  | 0.5 mg/l to 60 mg/l                       |
|     |                            | Nitrate Nitrogen<br>(as NO₃-N)                   | IS 3025 (Part-34-3-B):1988  | 0.5 mg/l to 50 mg/l                       |
|     |                            | Fluoride (as F <sup>-</sup> )                    | APHA& AWWA. 23 <sup>rd</sup> Ed<br>4500-F-SPANDS Method           | 0. 5 mg/l to 10 mg/l                      |
|     |                            | Phenols  | IS 3025 (Part-43):1992  | 0.01 mg/l to 10 mg/l                      |
|     |                            | Boron (as B)                                     | IS 3025 (Part-57):2005  | 0.05 mg/l to 10 mg/l                      |
|     |                            | Silica (as Si)                                   | IS 3025:Part-35-3 1988  | 0.5 mg/l to 50 mg/l                       |
|     |                            | Hexavalant Chromium (as Cr <sup>+6</sup> )       | APHA & AWWA. 23 <sup>rd</sup> Ed. 3500 Cr-B. 3-69.                | 0.5 mg/l to 2 mg/l                        |
|     |                            | Nitrite Nitrogen<br>(as NO <sub>2</sub> -N)      | IS 3025 (Part-34-4-B):<br>1988                                    | 0.1 mg/l to 50 mg/l                       |
|     |                            | Oil & Grease                                     | IS 3025 (Part-39):1991  | 2 mg/l to 500 mg/l                        |
|     |                            | Sodium (as Na)                                   | APHA & AWWA. 23 <sup>rd</sup> Ed.<br>3500 Na B. 3-97.             | 2 mg/l to 5000 mg/l                       |
|     |                            | Potassium (as K)                                 | APHA & AWWA. 23 <sup>rd</sup> Ed.<br>3500 K B. 3-87               | 2 mg/l to 5000 mg/l                       |

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|-----|----------------------------|--|---|---|
|     |                            | Aluminum (as Al)                             | APHA & AWWA. 23 <sup>rd</sup> Ed.<br>3111 D. 3-14   | 0.5 mg/l to 5.0 mg/l                      |
| 2.  | Hazardous Waste            | pH   | IS 10158:1982   | 1 to 14                                   |
|     |                            | Conductivity                                 | IS 10158:1982   | 0.1 μs/cm to 1000 μs/cm                   |
|     |                            | Moisture Content                             | IS 10158:1982   | 2 % to 60 %                               |
|     |                            | Loss on Ignition at 550°C                    | IS 10158:1982   | 2 % to 90 %                               |
|     |                            | Fixed Solids                                 | IS 10158:1982   | 1 % to 90 %                               |
|     |                            | Ammonical Nitrogen (as NH <sub>3</sub> -N)   | IS 10158:1982   | 0.1 % to 10 %                             |
|     |                            | Oil & Grease<br>(Hexane Extractable)         | APHA & AWWA, 23 <sup>nd</sup><br>Ed. 5520 E. 5-43   | 0.1 % to 1 %                              |
|     |                            | Kjeldahl Nitrogen<br>(as NH <sub>3</sub> -N) | IS 10158:1982   | 0.1% to 10 %                              |
| IV. | SOIL & ROCK                |  |   |   |
| 1.  | Soil                       | pH   | IS 2720 (Part-26):2002  | 1 to 14                                   |
|     |                            | Electrical Conductivity                      | IS 14767:2000   | 0.1 μS/cm to 1000 μS/cm                   |
|     |                            | Moisture Content                             | IS 2720 (Part-2):1973   | 0.1 % to 50 %                             |
|     |                            | Specific Gravity                             | IS 2720<br>(Part-3/Sec-1 & 2):2016  | 1 to 5                                    |
|     |                            | Bulk Density                                 | IS 2720 (Part-29):2015  | 1 gm/cc to 5 gm/cc                        |
|     |                            | Water Holding Capacity                       | Methods Manual on Soil Testing in India by Department of Agriculture & Cooperation, Ministry of Agriculture Government of India, January-2011 | 1% to 100 %                               |
|     |                            | Organic Carbon & Organic Matter              | IS 2720(Part-23) 2001   | 0.5 % to 50 %                             |
|     |                            | Calcium (as Ca)                              | IS 2720 (Part-24):2006  | 5 mg/kg to 1000 mg/kg                     |

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|-----|----------------------------|--------------------------------|---|---|
|     |                            | Magnesium<br>(as Mg)           | Methods Manual on Soil Testing in India by Department of Agriculture & Cooperation, Ministry of Agriculture Government of India, January-2011 | 5 mg/kg to 1000 mg/kg                     |
|     |                            | Chloride (as Cl <sup>-</sup> ) | Methods Manual on Soil Testing in India by Department of Agriculture & Cooperation, Ministry of Agriculture Government of India, January-2011 | 5 mg/kg to 1000 mg/kg                     |
|     |                            | Available Nitrogen             | Methods Manual on Soil Testing in India by Department of Agriculture & Cooperation, Ministry of Agriculture Government of India, January-2011 | 2 mg/kg to 500 mg/kg                      |
|     |                            | Nitrate (as NO₃)               | Methods Manual on Soil Testing in India by Department of Agriculture & Cooperation, Ministry of Agriculture Government of India, January-2011 | 5 mg/kg to 500 mg/kg                      |
|     |                            | Total Phosphorus (as P)        | Methods Manual on Soil Testing in India by Department of Agriculture & Cooperation, Ministry of Agriculture Government of India, January-2011 | 1 mg/kg to 500 mg/kg                      |

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|-----|----------------------------|-------------------------|---|---|
|     |                            | Sodium (as Na)          | Methods Manual on Soil                                      | 5 mg/kg to 500 mg/kg                      |
|     |                            |                         | Testing in India by   |   |
|     |                            |                         | Department of Agriculture                                   |   |
|     |                            |                         | & Cooperation,  |   |
|     |                            |                         | Ministry of Agriculture                                     |   |
|     |                            |                         | Government of India,  |   |
|     |                            |                         | January-2011  |   |
|     |                            | Potassium (as K)        | Methods Manual on Soil                                      | 5 mg/kg to 500 mg/kg                      |
|     |                            |                         | Testing in India by   |   |
|     |                            |                         | Department of Agriculture                                   |   |
|     |                            |                         | & Cooperation,  |   |
|     |                            |                         | Ministry of Agriculture                                     |   |
|     |                            |                         | Government of India,  |   |
|     |                            |                         | January-2011  |   |
|     |                            | Aluminum (as Al)        | EPA 7000B   | 1.5 mg/kg to 50 mg/kg                     |
|     |                            |                         | (January 2007, Rev 02)                                      |   |
|     |                            | Arsenic (as As)         | EPA 7062  | 1 mg/kg to 100 mg/kg                      |
|     |                            |                         | (Sep 1994, Rev 00)  |   |
|     |                            | Barium (as Ba)          | EPA 7000B   | 2.5 mg/kg to 100 mg/kg                    |
|     |                            |                         | (January 2007, Rev 02)                                      |   |
|     |                            | Manganese (as Mn)       | EPA 7000B   | 1 mg/kg to 100 mg/kg                      |
|     |                            |                         | (January 2007, Rev 02)                                      |   |
|     |                            | Mercury (as Hg)         | EPA 7471 B  | 1 mg/kg to 100 mg/kg                      |
|     |                            |                         | (February 2007, Rev 02)                                     |   |
|     |                            | Nickel (as Ni)          | EPA 7000B   | 1 mg/kg to 100 mg/kg                      |
|     |                            |                         | (January 2007, Rev 02)                                      |   |
|     |                            | Selenium (as Se)        | EPA 7742  | 1 mg/kg to 100 mg/kg                      |
|     |                            |                         | (Sep 1994, Rev 1)   |   |
|     |                            | Total Chromium          | EPA 7000B   | 1 mg/kg to 100 mg/kg                      |
|     |                            | (as Cr)                 | (January 2007, Rev 02)                                      |   |
|     |                            | Zinc (as Zn)            | EPA 7000B   | 1 mg/kg to 100 mg/kg                      |
|     |                            |                         | (January 2007, Rev 02)                                      |   |

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