

Laboratory Coastal Waste Management Project-Laboratory, RD. No. 20/5, JNPC,  
Parawada Mandal, Visakhapatnam, Andhra Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6805 (In lieu of T-2780)

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Validity 11.01.2018 to 10.01.2020

Last Amended on 18.01.2018

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 AND ENVIRONMENT			
1.	Waste Water	pH	APHA 23rd Ed., 4500 H <sup>+</sup> B (Electrometric Method)	1 to 13.0
		Temperature	APHA 23rd Ed.; 2550 –A, B (Glass or Electronic Thermometer method)	0 to 100 °C
		Conductivity	APHA 23rd Ed.; 2510 B (Laboratory Method)	2 μS/cm to 100000 μS/cm
		Acidity as CaCO <sub>3</sub>	APHA 23rd Ed.; 2310 B (Titration Method)	10 mg/L to 10000 mg/L
		Alkalinity as CaCO <sub>3</sub>	APHA 23rd Ed.; 2320 B (Titration Method)	10 mg/L to 30000 mg/L
		Total Solids	APHA 23rd Ed.; 2540 B (Gravimetric Method)	10 mg/L to 100000 mg/L
		Total Dissolved Solids	APHA 23rd Ed.; 2540 C (Gravimetric Method)	10 mg/L to 100000 mg/L
		Total Suspended Solids	APHA 23rd Ed.; 2540 D (Gravimetric Method)	10 mg/L to 5000 mg/L
		Fixed Solids	APHA 23rd Ed.; 2540 E (Gravimetric Method)	10 mg/L to 50000 mg/L
		Volatile Solids	APHA 23rd Ed.; 2540 E (Gravimetric Method)	10 mg/L to 10000 mg/L
		Chlorides as Cl <sup>-</sup>	APHA 23rd Ed.; 4500 Cl <sup>-</sup> C (Mercuric Nitrate Method)	10 mg/L to 50000 mg/L
		Sulphates as SO <sub>4</sub> <sup>-2</sup>	APHA 23rd Ed. 4500 SO <sub>4</sub> <sup>-2</sup> D (Gravimetric Method)	20 mg/L to 10000 mg/L
		Sulphide as H <sub>2</sub> S	APHA 23rd Ed. 4500 S <sup>2-</sup> F (Iodometric Method)	10 mg/L to 5000 mg/L

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		Sulphite as $\text{SO}_3^{-2}$	APHA 23rd Ed.; 4500 $\text{SO}_3^{-2}$ , B (2017) (Iodometric Method)	10 mg/L to 10000 mg/L
		Nitrate Nitrogen as N	APHA 23rd Ed.; 4500 $\text{NO}_3\text{-E}$ (Spectrophotometric Method)	1 mg/L to 1000 mg/L
		Nitrite Nitrogen as N	APHA 23rd Ed.; 4500 $\text{NO}_2\text{-B}$ (UV-Screening Method)	0.2 mg/L to 1000 mg/L
		Ammonical Nitrogen as N	APHA 23rd Ed.; 4500 $\text{NH}_3$ B, C (Distillation & Titrimetric Method)	1 mg/L to 1000 mg/L
		Nitrogen (Organic) as N	APHA 23rd Ed.; 4500 N (org) B (Macro-Kjeldahl Method)	1 mg/L to 1000 mg/L
		Fluorides as $\text{F}^-$	APHA 23rd Ed.; 4500 $\text{F-D}$ (Spectrophotometric Method)	0.2 mg/L to 1000 mg/L
		Residual Chlorine as Cl	APHA 23rd Ed.; 4500 Cl B (Iodometric Method)	1 mg/L to 100 mg/L
		Cyanides Total as $\text{CN}^-$	APHA 23rd Ed.; 4500 $\text{CN-C, E}$ (Spectrophotometric Method)	0.2 mg/L to 1000 mg/L
		Total Hardness as $\text{CaCO}_3$	APHA 23rd Ed.; 2340 C (EDTA Titrimetric Method)	10 mg/L to 50000 mg/L
		Phosphorus as P	APHA 23rd Ed.; 4500 P C (Spectrophotometric Method)	1 mg/L to 10000 mg/L
		Dissolved Oxygen	APHA 23rd Ed.; 4500 O C (Azide Modification Method)	1 mg/L to 9 mg/L

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		Oil & Grease	APHA 23rd Ed.;5520 B (Gravimetric Method)	10 mg/L to 10000 mg/L
		Chemical Oxygen Demand	APHA 23rd Ed.; 5220 B (Open reflux Method)	10 mg/L to 100000 mg/L
		Biochemical Oxygen Demand 3 Days at 27°C	IS : 3025 (Part 44) (Titrimetric Method)	4 mg/L to 50000 mg/L
		Calcium as Ca	APHA 23rd Ed.; 3500 Ca B (EDTA Titrimetric Method)	10 mg/L to 30000 mg/L
		Magnesium as Mg	APHA 23rd Ed.; 3500-Mg B (Calculation Method)	10 mg/L to 2000 mg/L
		Sodium as Na	APHA 23rd Ed.;; 3500 Na B (Flame Photometric Method)	1 mg/L to 1000 mg/L
		Potassium as K	APHA 23rd Ed.;; 3500 K B (Flame Photometric Method)	1 mg/L to 1000 mg/L
		Cadmium Cd	APHA 23rd Ed.; 3111 B, AAS	0.1 mg/L to 1000 mg/L
		Total Chromium as Cr	APHA 23rd Ed.; 3111 B, AAS	0.5 mg/L to 1000 mg/L
		Hexavalent Chromium as Cr <sup>+6</sup>	APHA 23rd Ed.; 3500 Cr B (Spectrophotometric Method)	0.1 mg/L to 100 mg/L
		Iron as Fe	APHA 23rd Ed.; 3111 B, AAS	0.1 mg/L to 1000 mg/L
		Lead as Pb	APHA 23rd Ed.; 3111 B, AAS	0.3 mg/L to 1000 mg/L
		Nickel as Ni	APHA 23rd Ed.; 3111 B, AAS	0.5 mg/L to 1000 mg/L
		Silica as SiO <sub>2</sub>	APHA 23rd Ed.; 4500 SiO <sub>2</sub> C (Spectrophotometric Method)	0.5 mg/L to 1000 mg/L

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		Zinc as Zn	APHA 23rd Ed.; 3111 B, AAS	0.5 mg/L to 1000 mg/L
		Copper as Cu	APHA 23rd Ed.; 3111 B, AAS	0.3 mg/L to 1000 mg/L
		Turbidity	APHA 23rd Ed.; 2130 B (Nephelometric Method)	0.05 NTU to 100 NTU
		Arsenic	APHA 23rd Ed.; 3500 As B, (Spectrophotometric Method)	0.1 mg/L to 100 mg/L
2.	Hazardous Waste	pH	USEPA; 9045 C, (1995) (Electrometric Method)	1 to 13.0
		Bulk Density	ASTM D 5057-10, (Gravimetric Method)	0.2 g/cc to 3 g/cc
		Calorific Value	IS 1350(part-II), (Bomb Calorimeter Method)	200 cal/g to 15000 cal/g
		Flash Point	USEPA;1020 A (Closed cup Method)	Ambient -110 °C
		Moisture content	IS 2362 (Karl Fisher Titration Method)	0.1 to 92
		Loss on drying at 105°C	APHA 23 <sup>rd</sup> Ed. 2540 G	1 % to 90%
		Loss on ignition at 550°C	APHA 23 <sup>rd</sup> Ed. 2540 G	1 % to 99%
		Paint Filter Liquid Test	USEPA-9095 A (Filtration Method)	Qualitative
		Reactive Cyanide as HCN	USEPA 9010 B (Distillation) APHA 23rd Ed.; 4500 CN- E (Spectrophotometric Method)	1 mg/kg to 1000 mg/kg
		Total Cyanide as CN <sup>-</sup>	USEPA; 9010 C APHA 23rd Ed; 4500 CN <sup>-</sup> E (Spectrophotometric Method)	1 mg/kg to 5000 mg/kg

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		Test for Cyanide	CPCB TSDF Protocol (Extraction) APHA 23rd Ed.; 4500 CN <sup>-</sup> K (Spot identification)	Qualitative
		Total Sulfide as H <sub>2</sub> S	USEPA 9030B (Distillation) USEPA 9034 (Iodometric Method)	10 mg/kg to 10000 mg/kg
		Reactive Sulfide as H <sub>2</sub> S	USEPA 9030B (Distillation) USEPA 9034 (Iodometric Method)	10 mg/kg to 10000 mg/kg
		Test for sulfide	CPCB TSDF Protocol (Extraction) APHA 23rd Ed.;4500 S <sup>2-</sup>	Qualitative (Spot identification)
		Ammonical Nitrogen as N	APHA 23rd Ed; 4500 NH <sub>3</sub> B, C (Distillation & Titrimetric Method)	1 mg/L to 1000 mg/L
		Extractable organics	USEPA– 3540 C (Soxhlet Extraction Method)	1 % to 95 %
		Water soluble inorganics	APHA 23rd Ed.; 2540 B&E (Gravimetric Method)	1 % to 99 %
		Water soluble organics	APHA 23rd Ed.2540 B&E (Gravimetric Method)	1 % to 99 %
		Cadmium as Cd	USEPA–3050B (Acid Digestion) USEPA7000B, AAS	1 mg/kg to 5000 mg/kg
		Copper as Cu	USEPA–3050B (Acid Digestion) USEPA7000B, AAS	5 mg/kg to 5000 mg/kg

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		Hexavalent Chromium as Cr <sup>+6</sup>	USEPA-3050B (Acid Digestion) USEPA 1998, SW-846; 7196A (Spectrophotometric Method)	5 mg/kg to 5000 mg/kg
		Iron as Fe	USEPA-3050B (Acid Digestion) USEPA7000B, AAS	5 mg/kg to 5000 mg/kg
		Lead as Pb	USEPA-3050B (Acid Digestion) USEPA7000B, AAS	10 mg/kg to 5000 mg/kg
		Nickel as Ni	USEPA-3050B (Acid Digestion) USEPA7000B, AAS	5 mg/kg to 5000 mg/kg
		Zinc as Zn	USEPA-3050B (Acid Digestion) USEPA7000B, AAS	5 mg/kg to 5000 mg/kg
		Arsenic as As	USEPA-3050B APHA- 3500 As B (Spectrophotometric Method)	10 mg/kg to 10000 mg/kg
		<b>Metals in TCLP Leachate</b>		
		Arsenic as As	USEPA 1311 (Extraction) APHA23rd Ed. 3500 As B (Spectrophotometric Method)	0.1 mg/L to 100 mg/L
		Cadmium as Cd	USEPA 1311 (Extraction) USEPA7000B, AAS	0.1 mg/L to 1000 mg/L

**Pankaj Johri**  
Convenor

**N. Venkateswaran**  
Program Director

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		Total Chromium as Cr	USEPA 1311 (Extraction) USEPA7000B , AAS	0.5 mg/L to 1000 mg/L
		Hexavalent Chromium as Cr <sup>+6</sup>	USEPA 1311 (Extraction) APHA 23 <sup>rd</sup> Ed.; 3500 Cr B, (Spectrophotometric Method)	0.2 mg/L to 100 mg/L
		Iron as Fe	USEPA 1311 (Extraction) USEPA7000B , AAS	1 mg/L to 100 mg/L
		Lead as Pb	USEPA 1311 (Extraction) USEPA7000B, AAS	0.3 mg/L to 100 mg/L
		Nickel as Ni	USEPA 1311 (Extraction) USEPA7000B, AAS	0.5 mg/L to 100 mg/L
		Copper as Cu	USEPA 1311 (Extraction) USEPA7000B, AAS	0.3 mg/L to 100 mg/L
		Zinc as Zn	USEPA 1311 (Extraction) USEPA7000B, AAS	1 mg/L to 100 mg/L
		<b>Metal s in water leachate</b>		
		Arsenic as As	CPCB TSDF Protocol (Extraction) APHA ; 3500 As B, (Spectrophotometric Method)	0.1 mg/L to 100 mg/L
		Cadmium as Cd	CPCB TSDF Protocol (Extraction) USEPA-7000B, AAS	0.1 mg/L to 1000 mg/L

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		Total Chromium as Cr	CPCB TSDF Protocol (Extraction) USEPA-7000B, AAS	0.5 mg/L to 1000 mg/L
		Hexavalent Chromium as Cr <sup>+6</sup>	CPCB TSDF Protocol (Extraction) APHA ; 3500 Cr B, (Spectrophotometric Method)	0.2 mg/L to 100 mg/L
		Iron as Fe	CPCB TSDF Protocol (Extraction) USEPA-7000B, AAS	1 mg/L to 100 mg/L
		Lead as Pb	CPCB TSDF Protocol (Extraction) USEPA-7000B, AAS	0.3 mg/L to 100 mg/L
		Nickel as Ni	CPCB TSDF Protocol (Extraction) USEPA-7000B, AAS	0.5 mg/L to 100 mg/L
		Copper as Cu	CPCB TSDF Protocol (Extraction) USEPA-7000B, AAS	0.3 mg/L to 100 mg/L
		Zinc as Zn	CPCB TSDF Protocol (Extraction) USEPA-7000B, AAS	1 mg/L to 100 mg/L
<b>II.</b>	<b>WATER</b>			
<b>1.</b>	<b>Ground Water</b>	pH	APHA 23rd Edition 4500 H <sup>+</sup> B (Electrometric Method)	1 to 13.5
		Temperature	APHA 23rd Edition 2550 -A, B (Glass or Electronic Thermometer method)	0 to 100 °C



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		Conductivity	APHA 23rd Ed.; 2510 B (Laboratory Method)	2 $\mu$ S/cm to 10000 $\mu$ S/cm
		Acidity as CaCO <sub>3</sub>	APHA 23rd Ed., 2310 B (Titrimetric Method)	10 mg/L to 1000 mg/L
		Alkalinity as CaCO <sub>3</sub>	APHA 23rd Ed. 2320 B (Titrimetric Method)	10 mg/L to 3000 mg/L
		Total Solids	APHA 23rd Ed. 2540 B (Gravimetric Method)	10 mg/L to 10000 mg/L
		Total Dissolved Solids	APHA 23rd Ed. 2540 C (Gravimetric Method)	10 mg/L to 10000 mg/L
		Total Suspended Solids	APHA 23rd Ed.; 2540 D (Gravimetric Method)	10 mg/L to 1000 mg/L
		Fixed Solids	APHA 23rd Ed; 2540 E (Gravimetric Method)	10 mg/L to 5000 mg/L
		Volatile Solids	APHA 23rd Ed.; 2540 E (Gravimetric Method)	10 mg/L to 1000 mg/L
		Chlorides as Cl <sup>-</sup>	APHA 23rd Ed.; 4500 Cl <sup>-</sup> B, (Mercuric Nitrate Method)	10 mg/L to 1000 mg/L
		Sulphates as SO <sub>4</sub> <sup>-2</sup>	APHA 23rd Ed.; 4500 SO <sub>4</sub> <sup>-2</sup> D (Gravimetric Method)	20 mg/L to 1000 mg/L
		Sulphide as S <sup>-2</sup>	APHA 23rd Ed. 4500 S <sup>2</sup> F, (Iodometric Method)	10 mg/L to 100 mg/L
		Sulphite as SO <sub>3</sub> <sup>-2</sup>	APHA 23rd Ed. 4500 SO <sub>3</sub> <sup>-2</sup> B, (Iodometric Method)	10 mg/L to 100 mg/L
		Nitrate Nitrogen as N	APHA 23rd Ed. 4500 NO <sub>3</sub> <sup>-</sup> B (Spectrophotometric Method)	1 mg/L to 1000 mg/L
		Nitrite Nitrogen as N	APHA 23rd Ed.; 4500 NO <sub>2</sub> <sup>-</sup> B (UV-Screening Method)	0.2 mg/L to 1000 mg/L

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		Nitrogen (Ammonia) as N	APHA 23rd Ed. 4500 NH <sub>3</sub> B C (Distillation & Titrimetric Method)	1 mg/L to 1000 mg/L
		Nitrogen (Organic) as N	APHA 23rd Ed. 4500 N (org) B, (Macro-Kjeldahl Method)	1 mg/L to 1000 mg/L
		Fluorides as F <sup>-</sup>	APHA 23rd Ed; 4500 F <sup>-</sup> D (SPADNS Method)	0.2 mg/L to 100 mg/L
		Residual Chlorine as Cl	APHA 23rd Ed. 4500 Cl B (Iodometric Method)	1 mg/L to 100 mg/L
		Cyanides Total as CN <sup>-</sup>	APHA 23rd Ed. 4500 CN <sup>-</sup> C, E, (Distillation & Spectrophotometric Method)	0.2 mg/L to 100 mg/L
		Total Hardness as CaCO <sub>3</sub>	APHA 23rd Ed. 2340 C (EDTA Titration Method)	10 mg/L to 5000 mg/L
		Phosphorus as P	APHA 23rd Ed. 4500 P C (Spectrophotometric Method)	1 mg/L to 100 mg/L
		Dissolved Oxygen	APHA 23rd Ed. 4500 O C (Azide Modification Method)	1 mg/L to 9.0 mg/L
		Oil & Grease	APHA 23rd Ed. 5520 B (Gravimetric Method)	10 mg/L to 100 mg/L
		Chemical Oxygen Demand	APHA 23rd Ed. 5220 B (Open Reflux Method)	10 mg/L to 5000 mg/L
		Biochemical Oxygen Demand 3 Days at 27°C	IS : 3025 (Part 44) (Titrimetric Method)	4 mg/L to 2000 mg/L
		Calcium as Ca	APHA 23rd Ed. 3500 Ca B (EDTA Titrimetric Method)	10 mg/L to 3000 mg/L
		Magnesium as Mg	APHA 23rd Ed.; 3500-Mg B (Calculation Method)	10 mg/L to 2000 mg/L

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		Sodium as Na	APHA 23rd Ed.3500 Na B (Flame Photometric Method)	1 mg/L to 1000 mg/L
		Potassium as K	APHA 23rd Ed.; 3500 K B (Flame Photometric Method)	1 mg/L to 1000 mg/L
		Silica as SiO <sub>2</sub>	APHA 23rd Ed.4500 SiO <sub>2</sub> C (Spectrophotometric Method)	0.5 mg/L to 100 mg/L
		Turbidity	APHA 23rd Ed.; 2130 B (Nephelometric Method)	0.05 NTU to 100 NTU
<b>III.</b>	<b>RESIDUES IN WATER</b>			
<b>1.</b>	<b>Trace Metal Elements</b>	Cadmium Cd	APHA 23rd Ed.3111 B, AAS	0.1 mg/L to 100 mg/L
		Total Chromium as Cr	APHA 23rd Ed. 3111 B, AAS	0.5 mg/L to 100 mg/L
		Hexavalent Chromium as Cr <sup>+6</sup>	APHA 23rd Ed.3500 Cr B (Spectrophotometric Method)	0.1 mg/L to 100 mg/L
		Iron as Fe	APHA 23rd Ed.3111 B, AAS	0.1 mg/L to 100 mg/L
		Lead as Pb	APHA 23rd Ed.3111 B, AAS	0.3 mg/L to 100 mg/L
		Nickel as Ni	APHA 23rd Ed.3111 B, AAS	0.5 mg/L to 100 mg/L
		Zinc as Zn	APHA 23rd Ed.3111 B, AAS	1 mg/L to 100 mg/L
		Copper as Cu	APHA 23rd Ed.3111 B (2017), AAS	0.3 mg/L to 100 mg/L
<b>IV.</b>	<b>ATMOSPHERIC POLLUTION</b>			
<b>1</b>	<b>Ambient Air</b>	Sulphur Dioxide	IS 5182 (Part 2) (Improved West & Geake Method)	6 µg/m <sup>3</sup> to 1050 µg/m <sup>3</sup>
		Oxides of Nitrogen	IS 5182 (Part 6) (Modified Jacob &Hochheiser Method)	6 µg/m <sup>3</sup> to 750 µg/m <sup>3</sup>
		Respirable Suspended Particulate Matter (PM <sub>10</sub> )	IS 5182 (Part 23) (Gravimetric Method)	5 µg/m <sup>3</sup> to 1000 µg/m <sup>3</sup>