Laboratory	Uttar Pradesh Waste Management Project Laboratory (A Division of Ramky Enviro Engineers Limited), Plot No. 672, On NH-2, Sikandra Road, Vill-Kumbhi, Tehsil-Akbarpur, Dist. Kanpur Dehat, Uttar Pradesh	
Accreditation Standard	ISO/IEC 17025: 2005	
Certificate Number	TC-5877(in lieu of T-3469)	Page 1 of 6
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SI.	Product / Material	Specific Test Performed	Test Method Specification	Range of Testing /
	of Test		against which tests are	Limits of Detection
			performed	

CHEMICAL TESTING

I.	POLLUTION & EN	NVIRONMENT		
1.	Effluents / Waste Water	рН	APHA (22 nd Edition) 4500 H ⁺ B:	1 to 14
		Temperature	APHA (22 nd Edition) 2550 B	1°C to 100 °C
		Conductivity	APHA (22 nd Edition) 2510 B	2 µMho/Cm to10000 µMho/Cm
		Acidity as CaCO ₃	APHA (22 nd Edition) 2310 B	10 mg/L to 400 mg/L
		Alkalinity as CaCO ₃	APHA (22 nd Edition) 2320 B	10 mg/L to 400 mg/L
		Total Solids	APHA (22 nd Edition) 2540 B	10 mg/L to 1000 mg/L
		Total Dissolved Solids	APHA (22 nd Edition) 2540 C	10 mg/L to 1000 mg/L
		Total Suspended Solids	APHA (22 nd Edition) 2540 D	10 mg/L to 1000 mg/L
		Fixed Solids	APHA (22 nd Edition) 2540 E	10 mg/L to 1000 mg/L
		Volatile Solids	APHA (22 nd Edition) 2540 E	10 mg/L to 1000 mg/L
		Chlorides as Cl	APHA (22 nd Edition) 4500 Cl ⁻ B & C	5 mg/L to 1000 mg/L
		Sulphates as SO ₄ - ²	APHA (22 nd Edition) 4500 SO ₄ ⁻² D	1 mg/L to 1000 mg/L
		Sulphide as S ⁻²	APHA (22 nd Edition) 4500 S ² F	1 mg/L to 50 mg/L
		Sulphite as SO ₃ ⁻²	APHA (22 nd Edition) 4500 SO ₃ ⁻² ,B	1 mg/L to 1000 mg/L

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Nitrate Nitrogen as NO3 ⁻	APHA (22 nd Edition) 4500 NO ₃ ⁻ B	0.1 mg/L to 50 mg/L
		Nitrite Nitrogen as NO ₂ -	APHA (22 nd Edition) 4500 NO ₂ – B	1 mg/L to 50 mg/L
		Nitrogen (Ammonia) as NH ₃	APHA (22 nd Edition) 4500 NH ₃ B, C	1 mg/L to 1000 mg/L
		Fluorides as F	APHA (22 nd Edition) 4500-F ⁻ D	1.0mg/L to 10 mg/L
		Residual Chlorine as Cl	APHA (22 nd Edition) 4500-CI B	10 mg/L to 100 mg/L
		Cyanides Total as CN ⁻	APHA (22 nd Edition) 4500-CN ⁻ C, E	0.20 mg/L to 10 mg/L
		Total Hardness as CaCO ₃	APHA (22 nd Edition) 2340 C	5 mg/L to 1000 mg/L
		Phosphorus as P	APHA (22 nd Edition) 4500 P D	1 mg/L to 50 mg/L
		Dissolved Oxygen	APHA (22 nd Edition) 4500 O C	1 mg/L to 12 mg/L
		Oil & Grease	APHA (22 nd Edition) 5520 B	5 mg/L to 500 mg/L
		Chemical Oxygen Demand	APHA (22 nd Edition) 5220 B	5 mg/L to 50000 mg/L
		Biological Oxygen Demand (5 days at 20°c) 3 days at 27°c	APHA (22 nd Edition) 5210 B,4500-O,C IS : 3025 : Part - 44	5 mg/L to 30000 mg/L
		Phenolic Compounds as Phenols	APHA ((22 nd Edition) 5530 D	0.1 mg/L to 100 mg/L
		Calcium as Ca	APHA (22 nd Edition)3500 Ca B	5 mg/L to 1000 mg/L
		Sodium as Na	APHA(22 nd Edition) 3500 Na B	5 mg/L to 1000 mg/L
		as Na	3500 Na B	

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Magnesium as Mg	APHA (22 nd Edition) 3500-Mg B	5 mg/L to 1000 mg/L
		Potassium as K	APHA ((22 nd Edition) 3500 K B	5 mg/L to 1000 mg/L
2.	Hazardous Waste (Solid & Waste)	рН	USEPA 1998 SW-846; 9045 C	1 to 14
		Bulk Density	APHA 2710 F , ATM D-5057-10	0.2 gm/cc to 3 gm/cc
		Calorific Value	IS:1350 Part II – 1970	500 gm/cc to 10000 cal/gm
		Flash Point	USEPA 1998, SW-846; 1020 A	Ambient - 80°C
		Moisture content	IS 326 (Part 21)	to 90%
		Loss on drying at 105°C	APHA(22 nd Edition) 2540	5 % to 90%
		Loss on ignition at 550°C	APHA (22 nd Edition) 2540	5% to 90%
		Ash Content at 900°C	APHA 22 nd Edition 2540	1 %to 90%
		Paint Filter Liquid Test	USEPA 1998, SW-846; 9095 A	Qualitative (Pass/ Fail)
		Reactive Cyanide as HCN	USEPA 1998, SW-846; 9010B 9014	1 mg/kg to 500 mg/kg
		Reactive Sulfide as H ₂ S	USEPA 1998, SW-846; 9034	10 mg/kg to 600 mg/kg
		Extractable organics	USEPA 1998, SW-846; 3540 C	1 % to 5 %
		Water soluble inorganic	APHA (22 nd Edition) 2540 E	1.0 % to 90%
		Water soluble organics	APHA (22 nd Edition) 2540 E	1.0 % to 90%

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Limits of Detection
		WLT/TCLP (Toxicity characterstics Leaching Procedure) Iron as Fe	USEPA 1998, SW-846; 7380	0.1 mg/L to 50 mg/L
11.	WATER			
1.	Bore well & Domestic Water	рН	APHA (22 nd Edition) 4500 H ⁺ B	1 to 14
		Temperature	APHA (22 nd Edition) 2550 B	1 °C to 70 °C
		Conductivity	APHA (22 nd Edition) 2510 B	2 μMho/Cm to 10000 μMho/Cm
		Acidity as CaCO ₃	APHA (22 nd Edition) 2310 B	5 mg/L to 400 mg/L
		Alkalinity as CaCO₃	APHA(22 nd Edition) 2320 B	5 mg/L to 1000 mg/L
		Total Solids	APHA (22 nd Edition) 2540 B	10 mg/L to 3000 mg/L
		Total Dissolved Solids	APHA (22 nd Edition) 2540 C	10 mg/L to 1000 mg/L
		Total Suspended Solids	APHA (22 nd Edition) 2540 D	10 mg/L to 1500 mg/L
		Fixed Solids	APHA (22 nd Edition) 2540 E	10 mg/L to 1000 mg/
		Volatile Solids	APHA (22 nd Edition) 2540	10 mg/L to 500 mg/L
		Chlorides as Cl ⁻	APHA (22 nd Edition) 4500 Cl ⁻ B & C	5 mg/L to1500 mg/L
		Sulphates as SO ₄ ⁻²	APHA (22 nd Edition) 4500 SO ₄ ⁻² D	1 mg/L to 40 mg/L 40 mg/L to 1000 mg/L
		Sulphide as S ⁻²	APHA (22 nd Edition) 4500 S ² F	0.01 mg/L to100 mg/L

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		Sulphite as SO ₃ ⁻²	APHA (22 nd Edition) 4500 SO ₃ ⁻² ,B	1.0 mg/L to100 mg/L
		Nitrate Nitrogen as NO3-	APHA (22 nd Edition) 4500 NO ₃ ⁻ B	0.1 mg/L to 50 mg/L
		Nitrite Nitrogen as NO2-	APHA (22 nd Edition) 4500 NO ₂ – B	1 mg/L to 50 mg/L
		Nitrogen (Ammonia) as NH3	APHA (22 nd Edition) 4500 NH₃ B, C	0.02 mg/L to 100 mg/L
		Fluorides as F ⁻	APHA (22 nd Edition) 4500 F ⁻ D	0.1 mg/L to 10 mg/L
		Residual Chlorine as Cl	APHA (22 nd Edition) 4500 Cl B	0.2 mg/L to 10 mg/L
		Total Cyanides as CN ⁻	APHA(22 nd Edition) 4500 CN ⁻ C, E	0.02 mg/L to10 mg/L
		Total Hardness as CaCO ₃	APHA (22 nd Edition) 2340 C	5 mg/L to 1000 mg/L
		Phosphorus as P	APHA (22 nd Edition) 4500 P D	1 mg/L to 50 mg/L
		Dissolved Oxygen	APHA (22 nd Edition) 4500 O C	0.5 mg/L to 12 mg/L
		Oil & Grease	APHA (22 nd Edition) 5520 B,	5 mg/L to 100 mg/L
		Chemical Oxygen Demand	APHA (22 nd Edition) 5220 B	5 mg/L to 2500 mg/L
		Biological Oxygen Demand (5 Days at 20°C) 3 Days at 27°C	APHA (22 nd Edition) 5210 B, 4500-O. C IS : 3025: Part -44	2 mg/L to 1000 mg/L
		Phenolic Compounds as Phenols	APHA (22 nd Edition) 5530 D	0.001mg/L to 10 mg/L
		Calcium as Ca	APHA (22 nd Edition) 3500 Ca B	10 mg/L to 1000 mg/L
		Sodium as Na	APHA (22 nd Edition) 3500 Na B	1 mg/L to 1000 mg/L

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		Magnesium as Mg	APHA (22 nd Edition) 3500-Mg B	1 mg/L to 600 mg/L
		Potassium as K	APHA (22 nd Edition) 3500 K B	1 mg/L to 100 mg/L
111.	AIR, GASES & ATM	OSPHERE		
1.	Ambient Air Quality Monitoring	Sulphur Dioxide Oxides of Nitrogen Particulate Matter (PM10)	IS 5182 (Part 2) IS 5182 (Part 6) IS 5182 (Part 23)	4 μg/m ³ to 200 μg/m ³ 10 μg/m ³ to 750 μg/m ³ 10 μg/m ³ to 1000 μg/m ³
2.	Stack Monitoring	Sulphur Dioxide Oxides of Nitrogen Particulate Matter	IS 11255 (Part 2) IS 11255 (Part 7) IS 11255 (Part 1)	10 mg/m ³ to 1000 mg/m ³ 10 mg/m ³ to 1000 mg/m ³ 10 mg/m ³ to 1000 mg/m ³