

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Certificate of Accreditation

Mitra S. K. Private Limited

Plot No.-211, Sec-A, Zone B, 2nd Floor, Mancheswar Industrial Estate,
Bhubaneswar-751010, Odisha, India

has been assessed and accredited in accordance with the Standard
ISO/IEC 17025:2017

“General Requirements for the Competence of Testing and Calibration Laboratories”
In the field of
Testing

This certificate remains valid for the Scope of Accreditation as specified
in the annexure subject to continued compliance to the above standard &
any other requirements specified by QAI.



QAI/CIA/TL/2024/0092

Valid from: 24 December 2024

Valid until: 23 December 2026

Dr. Bhupendra Kumar Rana
Chief Executive Officer

Prof. Vikram Kumar
Chair, CIA



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution & Environment		
1.	Waste water (effluents/ sewage)	pH at 25 °C	IS3025, PART-11: 2022
2.	Waste water (effluents/ sewage)	TSS	IS 3025, PART-17: 2022
3.	Waste water (effluents/ sewage)	Oil & grease	IS3025, Part-39:2021 (Clause-5.0)
4.	Waste water (effluents/ sewage)	Chemical oxygen demand (COD)	IS 3025, Part-58:2023
5.	Waste water (effluents/ sewage)	Biochemical oxygen demand (BOD)	IS 3025, Part-44:2023
6.	Waste water (effluents/ sewage)	Ammonia as NH ₃ -N	IS 3025 (Part 34/Sec 1): 2023 (Clause-5.4)
7.	Waste water (effluents/ sewage)	Ammonia as NH ₃ -N	IS 3025 (Part 34/Sec 1): 2023 (Clause-5.3)
8.	Waste water (effluents/ sewage)	Phenol as PhOH	IS 3025 (Part -43/sec1):2022 (Clause-6.0)
9.	Waste water (effluents/ sewage)	Phenol as PhOH	IS 3025 (Part -43/ sec1):2022 (Clause-5.0)
10.	Waste water (effluents/ sewage)	Iron as Fe	IS 3025, Part -53:2024 (Clause-6.0)
11.	Waste water (effluents/ sewage)	Cyanide	IS 3025 (Part -27, Sec1): 2021 (Clause2.0 Followed by Clause 5.0)
12.	Waste water (effluents/ sewage)	Fluoride	IS 3025 (PART-60/sec 1) 2023 (Clause-7.0)

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution & Environment		
13.	Waste water (effluents/ sewage)	Total dissolved solid	IS 3025 Part -16: 2023
14.	Waste water (effluents/ sewage)	Total kjeldahl nitrogen	IS 3025(Part -34/sec1)2023 (Clause-8.2)
15.	Waste water (effluents/ sewage)	Chloride as Cl	IS 3025, Part -32:1988 (Clause-2.0)
16.	Waste water (effluents/ sewage)	Sulphide as S	IS3025, Part 29 :2022 (Clause-7.0)
17.	Waste water (effluents/ sewage)	Dissolved phosphates (as P)	IS 3025(PART-31/sec1)2022 (Clause-5.0)
18.	Waste water (effluents/ sewage)	Sulphate as SO ₄	IS 3025(PART-24/sec1)2022 (Clause-5.0)
19.	Waste water (effluents/ sewage)	Nitrite as NO ₂	IS 3025(PART-34: Sec1) 2023 (Clause-7.0)
20.	Waste water (effluents/ sewage)	Nitrate nitrogen as NO ₃ -N	IS 3025(PART-34/Sec1)2023 (Clause-6.3)
21.	Waste water (effluents/ sewage)	Phosphate as P	IS 3025(Part-31:SEC1)2022 (Clause-5.0)
22.	Waste water (effluents/ sewage)	Sodium absorption ratio (SAR)	IS 11624 :2019
23.	Waste water (effluents/ sewage)	Residual free chlorine	IS 3025, Part-26:2021(Clause-6)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Pollution & Environment		
24.	Waste water (effluents/ sewage)	Particle size of suspended solids	TPM/MSK/ED/05:2024, January in reference to general standards for discharge of Environmental pollutants
25.	Waste water (effluents/ sewage)	Free ammonia as NH ₃ -N	IS 3025 (Part -34/Sec1):2023 (Clause-5.4 followed by distillation without buffer)
26.	Waste water (effluents/ sewage)	Hexavalent chromium as Cr +6	IS 3025, Part -52:2003 (Clause-6.0)
27.	Waste water (effluents/ sewage)	Potassium as K	IS 3025, Part -45:2024 (Clause-5.0)
28.	Waste water (effluents/ sewage)	Sodium as Na	IS 3025, Part -45:2024 (Clause-5.0)
29.	Waste water (effluents/ sewage)	Boron as B	IS 3025, Part -57:2021 (Clause-6.0)
30.	Waste water (effluents/ sewage)	Dissolved oxygen as O	IS 3025, Part-38:1989 (Clause-4.0)



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
1.	Ground water	pH at 25 °C	IS 3025 Part-11:2022
2.	Ground water	Turbidity	IS 3025 Part-10:2023
3.	Ground water	Total hardness as CaCO ₃	IS 3025 Part-21:2009 (Clause-5.0)
4.	Ground water	Magnesium as Mg	IS 3025 Part 46:2023 (Clause-5.0)
5.	Ground water	Calcium as Ca	IS 3025 Part-40:20.24 (Clause-5.0)
6.	Ground water	Odour (qualitative)	IS 3025 Part-5:2018
7.	Ground water	Taste (qualitative)	IS 3025 Part-8:2023
8.	Ground water	Colour	IS 3025 Part -4:2021 (Clause-5.0)
9.	Ground water	Total dissolved solid	IS 3025 Part -16:2023
10.	Ground water	Total alkalinity as CaCO ₃	IS 3025 Part -23:2023
11.	Ground water	Chloride as Cl	IS 3025 (Part-32): 1988 (Clause-2.0)
12.	Ground water	Phosphate as PO ₄	IS 3025 (Part -31/sec-1)2022 (Clause-5.0)
13.	Ground water	Silica as SiO ₂	IS 3025(Part -35):2024 (Clause-6.0)
14.	Ground water	Phenolic compound as phenol	IS 3025 (Part -43/sec1)2022 (Clause-6.0)
15.	Ground water	Sulphide as S	IS 3025 Part -29:2022 (Clause-7.0)
16.	Ground water	Sulphate as SO ₄	IS 3025 Part -24, Sec-2) 2022 (Clause-5.0)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
17.	Ground water	Nitrate as NO ₃	IS 3025 (Part -34, Sec-1)2023 (Clause-6.4)
18.	Ground water	Iron as Fe	IS 3025 Part -53:2024 (Cl.-6.0)
19.	Ground water	Potassium as K	IS 3025 Part -45:2024 (Cl.-5.0)
20.	Ground water	Sodium as Na	IS 3025 Part-45:2024 (Cl.-5.0)
21.	Ground water	Boron as B	IS 3025 Part -57:2021 (Cl-5.0)
22.	Ground water	Fluoride as F	IS 3025 (Part -60/Sec 1)2023 (Clause-7.0)
23.	Ground water	Cyanide as CN	IS 3025 (Part-27 Sec1)2021(Cl.2.0 Followed by Clause 5.0)
24.	Ground water	Chloramine as Cl ₂	IS 3025 Part -26:2021 (Clause-6.0 Annex-A)
25.	Ground water	Free residual chlorine as Cl ₂	IS 3025 Part -26:2021 (Clause-6.0)
26.	Surface water	pH at 25 °C	IS 3025 Part -11:2022
27.	Surface water	Colour	IS 3025 Part-4:2021(Clause-5.0)
28.	Surface water	Odour	IS 3025 Part-5:2018
29.	Surface water	Temperature	IS 3025 Part-9:2023
30.	Surface water	Total suspended solids/TSS	IS 3025 Part -17:2022
31.	Surface water	Turbidity	IS 3025 Part -10,2023
32.	Surface water	Total dissolved solid (TDS)	IS 3025 Part -16:2023

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
33.	Surface water	Electrical conductivity at 25°C	IS 3025 Part -14:2013
34.	Surface water	Total kjeldahl nitrogen	IS 3025 (Part-34 /sec1)2023(Clause-8.2)
35.	Surface water	Total Hardness as CaCO ₃	IS 3025 Part-21:2009
36.	Surface water	Carbonate hardness as CaCO ₃ ,	IS 3025 Part-21:2009 (Clause-5.0)
37.	Surface water	Magnesium as Mg	IS 3025 (Part-46): 2019 (Clause-5.0)
38.	Surface water	Calcium as Ca	IS 3025 Part-40:2024 (Clause-5.0)
39.	Surface water	Total alkalinity as CaCO ₃	IS 3025 Part -23:2023
40.	Surface water	P-Alkalinity as CaCO ₃	IS 3025 Part -23:2023
41.	Surface water	M-Alkalinity as CaCO ₃	IS 3025 Part -23:2023
42.	Surface water	Chloride as Cl	IS 3025 Part -32:1988 (Clause-2.0)
43.	Surface water	Sulphide as S	IS 3025 Part -29:2022 (Clause-7.0)
44.	Surface water	Dissolved phosphates (as P)	IS 3025 (Part-31/SEC1)2022 (Clause-5.0)
45.	Surface water	Sulphate as SO ₄	IS 3025 (Part -24/sec1)2022 (Clause-5.0)
46.	Surface water	Nitrite as NO ₂	IS 3025(Part-34/Sec1) 2023 (Clause-7.0)
47.	Surface water	Nitrate as NO ₃	IS 3025(Part-34/ Sec1) 2023 (Clause-6.4)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
48.	Surface water	Phosphate as P	IS 3025 (Part-31/SEC1) 2022 (Clause-5.0)
49.	Surface water	Sodium absorption ratio (SAR)	IS 11624 :2019
50.	Surface water	Phenolic compounds as C ₆ H ₅ OH	IS 3025 (Part -43/ sec 1) 2022 (chloroform extraction) (Clause-6.0)
51.	Surface water	Phenolic compounds as C ₆ H ₅ OH	IS 3025 (Part-43/ sec 1) 2022 (without chloroform extraction) (Clause-5.0)
52.	Surface water	Residual free chlorine	IS 3025 Part-26:2021 (Clause-6.0)
53.	Surface water	Particle size of suspended solids	TPM/MSK/ED/05:2024, January in reference to general standards for discharge of Environmental pollutants
54.	Surface water	Oil & grease	IS 3025 Part-39:2021 (Clause-5.0)
55.	Surface water	Free ammonia as NH ₃ -N	IS 3025 (Part-34/Sec1) 2023 (Clause-5.4 followed by distillation without buffer)
56.	Surface water	Ammonical nitrogen (as N) /Ammonia as total ammonia -N	IS 3025 (Part-34/Sec1) 2023 (Clause-5.4)
57.	Surface water	Ammonical nitrogen (as N) /Ammonia as total ammonia -N	IS 3025 (Part-34/ Sec1) 2023 (Clause-5.3)
58.	Surface water	Cyanide (as CN)	IS 3025 (Part-27/Sec 1) 2021 (Clause 2.0 Followed by Clause 5.0)

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Water		
59.	Surface water	Fluoride (as F)	IS 3025 (Part -60/Sec 1) 2023 (Clause-7.0)
60.	Surface water	Hexavalent chromium as Cr ⁺⁶	IS 3025 Part-52:2003 (Clause-6.0)
61.	Surface water	Iron as Fe	IS 3025 Part-53:2024 (Clause-6.0)
62.	Surface water	Potassium as K	IS 3025 Part -45:2024 (Clause-5.0)
63.	Surface water	Sodium as Na	IS 3025 Part -45:2024 (Clause-5.0)
64.	Surface water	Boron as B	IS 3025 Part -57:2021 (Clause-5.0)
65.	Surface water	Dissolved oxygen as O	IS 3025 Part -38:1989 (CI-4.0)
66.	Surface water	Biochemical oxygen demand (BOD)	IS 3025 Part -44:2023
67.	Surface water	Chemical oxygen demand (COD)	IS 3025 Part -58:2023
68.	Surface water	Silica as SiO ₂	IS 3025 Part-35:2024(Clause 7)



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Atmospheric Pollution		
1.	Stack Emission	Particulate matter (PM)	IS 11255 : Part 1 : 1985
2.	Stack Emission	Sulphur dioxide as SO ₂	IS 11255 : Part 2 : 1985
3.	Stack Emission	Oxides of nitrogen as NO ₂ ,	IS 11255 : Part 7 : 2005
4.	Stack Emission	Oxygen as O ₂	IS 13270:1992
5.	Stack Emission	Carbon dioxide as CO ₂	IS 13270:1992
6.	Stack Emission	Carbon monoxide as CO	IS 13270:1992
7.	Stack Emission	Barometric pressure	IS 11255 : Part 3 : 2008
8.	Stack Emission	Moisture	IS 11255 : Part 3 : 2008
9.	Stack Emission	Velocity	IS 11255 : Part 3 : 2008
10.	Stack Emission	Temperature	IS 11255 : Part 3 : 2008
11.	Stack Emission	Quantity of gas flow	IS 11255 : Part 3 : 2008
12.	Ambient Air	Fine particulate matter (PM _{2.5})	IS 5182 : Part 24 : 2019
13.	Ambient Air	PM ₁₀ (particulate matter < 10 µm)/ respirable suspended particulate matter cyclonic technique	IS 5182 : Part 23 : 2006
14.	Ambient Air	Ozone	IS 5182 : Part 9 : 1974
15.	Ambient Air	Ammonia as NH ₃	IS 5182 : Part 25 : 2018
16.	Ambient Air	Nitrogen dioxide as NO ₂	IS 5182 : Part 6 : 2006

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Atmospheric Pollution		
17.	Ambient Air	Sulphur dioxide as SO ₂	IS 5182 (Part 2/Sec 1) 2023
18.	Fugitive emission	Respirable suspended Particulate matter (PM ₁₀), cyclonic flow technique	TPM/MSK/ENV(AP)/04/02: January 24
19.	Fugitive emission	Sulphur dioxide as SO ₂	TPM/MSK/ENV(AP)/04/04: January 24
20.	Fugitive emission	Nitrogen dioxide as NO ₂	TPM/MSK/ENV(AP)/04/05: January 24
21.	Fugitive emission	Fine particulate matter (PM _{2.5})	TPM/MSK/ENV(AP)/04/03: January 24
22.	Ambient Noise Levels (Excluding vibration)	Leq dB(A) day time	IS 9989:1981
23.	Ambient Noise Levels (Excluding vibration)	Leq dB(A) night time	IS 9989:1981
24.	Source noise	Noise dB(A)	IS 9989:1981



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
1.	Coal	Total moisture	IS 1350 Part-1 : 1984
2.	Coal	Equilibrate moisture	IS 1350 Part-1 : 1984
3.	Coal	Moisture	IS 1350 Part-1 : 1984
4.	Coal	Volatile matter (different basis)	IS 1350 Part-1 : 1984
5.	Coal	Ash (different basis)	IS 1350 Part-1 : 1984
6.	Coal	Fixed carbon (by difference)	IS 1350 Part-1 : 1984
7.	Coal	Sulphur	IS 1350 Part-3 : 2022
8.	Coal	Gross calorific value (different basis)	IS 1350 Part-2: 2022
9.	Coke	Total Moisture	IS 1350 Part-1 : 1984
10.	Coke	Moisture	IS 1350 Part-1 : 1984
11.	Coke	Volatile matter (different basis)	IS 1350 Part-1 : 1984
12.	Coke	Ash (different basis)	IS 1350 Part-1 : 1984
13.	Coke	Fixed carbon (by difference)	IS 1350 Part-1 : 1984
14.	Coke	Sulphur	IS 1350 Part 3 : 2022
15.	Coke	Gross calorific value (different basis)	IS 1350 Part 2: 2022
16.	Coal/Coke	Methods of sampling	IS 436, Part -1: Sec 1:2024

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