



(A Constituent Board of Quality Council of India)



Laboratory Name	MET- CHEM LABORATORIES, #289, ASHIRWAD,12TH CROSS, 5TH MAIN,M.S RAMAIAH NAGAR, BENGALURU, KARNATAKA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-5318	Page No. :	1 / 7
Validity	28/06/2019 to 27/06/2021	Last Amended on	-

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
		Pe	ermanent Facility		
1	CHEMICAL- ORES & MINERALS	Bauxite	Aluminum (Al2O3)	IS : 2000 (Part 3 ): 2000, RA 2017	1 % to 90 %
2	CHEMICAL- ORES & MINERALS	Bauxite	Ferric Oxide (Fe2O3)	IS : 2000 (Part 4 ): 2000, RA 2017	1 % to 35 %
3	CHEMICAL- ORES & MINERALS	Bauxite	Loss on Ignition (LOI)	IS : 2000 (Part 1 ): 2000, RA 2017	0.5 % to 40 %
4	CHEMICAL- ORES & MINERALS	Bauxite	Silica( SiO2)	IS : 2000 (Part 2 ): 2000, RA 2017	0.5 % to 20 %
5	CHEMICAL- ORES & MINERALS	Bauxite	Titanium (TiO2)	IS : 2000 (Part 5 ): 2000, RA 2017	0.5 % to 12 %
6	CHEMICAL- ORES & MINERALS	Iron ores	AI2O3	IS-1493 (Part-1): 1981, RA 2016	0.1 % to 10 %
7	CHEMICAL- ORES & MINERALS	Iron ores	L.O.I	Manual of Procedure for Chemical and Instrumental Analysis of Ores, Minerals, Ore Dressing Products and Environmental Samples", issued by Controller General Indian Bureau of Mines,Feb: 2012	0.1 % to 10 %
8	CHEMICAL- ORES & MINERALS	Iron ores	Р	IS-1493 (Part-1): 1981, RA 2016	0.01 % to 0.5 %
9	CHEMICAL- ORES & MINERALS	Iron ores	S	IS-1493 (Part-1): 1981, RA 2016	0.01 % to 0.2 %
10	CHEMICAL- ORES & MINERALS	Iron ores	SiO2	IS-1493 (Part-1): 1981, RA 2016	0.5 % to 20 %





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11	CHEMICAL- ORES & MINERALS	Iron ores	Total Fe	IS-1493 (Part-1): 1981, RA 2016	5.00 % to 69.5 %
12	CHEMICAL- ORES & MINERALS	Lime stone & Dolomite	CaO	IS-1760 (part-3): 1991, RA 2017	0.1 % to 60 %
13	CHEMICAL- ORES & MINERALS	Lime stone & Dolomite	к20	IS-1760 (part-3): 1991, RA 2017	0.03 % to 2 %
14	CHEMICAL- ORES & MINERALS	Lime stone & Dolomite	L.O.I	IS-1760 (part-2): 1991, RA 2017	10 % to 50 %
15	CHEMICAL- ORES & MINERALS	Lime stone & Dolomite	MgO	IS-1760 (part-3): 1991, RA 2017	0.1 % to 30 %
16	CHEMICAL- ORES & MINERALS	Lime stone & Dolomite	Na2O	IS-1760 (part-3): 1991, RA 2017	0.1 % to 2 %
17	CHEMICAL- ORES & MINERALS	Limestone&dolomite	Alumina(Al203)	IS-1760 (part-3): 1991, RA 2017	0.1 % to 10 %
18	CHEMICAL- ORES & MINERALS	Limestone&dolomite	Fe2O3	IS-1760 (part-3): 1991, RA 2017	0.1 % to 10 %
19	CHEMICAL- ORES & MINERALS	Limestone&dolomite	Silica(SiO2)	IS 1760 PART 2: 1991, RA 2017	0.1 % to 20 %
20	CHEMICAL- ORES & MINERALS	Manganese ores	AI2O3	IS-1473: 2004, RA 2016	1 % to 5 %
21	CHEMICAL- ORES & MINERALS	Manganese ores	Fe2O3	IS-1473: 2004, RA 2016	1 % to 40 %





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22	CHEMICAL- ORES & MINERALS	Manganese ores	L.O.I	Manual of Procedure for Chemical and Instrumental Analysis of Ores, Minerals, Ore Dressing Products and Environmental Samples", issued by Controller General Indian Bureau of Mines,Feb: 2012	0.3 % to 10 %
23	CHEMICAL- ORES & MINERALS	Manganese ores	Р	IS-1473: 2004, RA 2016	0.02 % to 0.2 %
24	CHEMICAL- ORES & MINERALS	Manganese ores	S	IS-1473: 2004, RA 2016	0.1 % to 2.0 %
25	CHEMICAL- ORES & MINERALS	Manganese ores	SiO2	IS-1473: 2004, RA 2016	1.0 % to 10 %
26	CHEMICAL- ORES & MINERALS	Manganese ores	Total Mn	IS-1473: 2004, RA 2016	2.00 % to 60.0 %
27	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Ammonical Nitrogen	IS 3025 Part 34 : 1988	2 mg/l to 1000 mg/l
28	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	BOD for 3 days at 27 degree centigrade	IS 3025 Part 44: 1993	2 mg/l to 200 mg/l
29	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Calcium	IS 3025 part-40/1991: 2003	7 mg/l to 1000 mg/l
30	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Chemical Oxygen Demand	IS 3025 Part 58: 2006	10 mg/l to 5000 mg/l





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31	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Chlorides as Cl	IS 3025 part-32: 1988	10 mg/l to 4000 mg/l
32	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Colour	MCL/SOP/Color: 2019	20 Hazen to 100 Hazen
33	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Conductivity	IS 3025: Part-14: 1984	20 µmhos/cm to 5000 µmhos/cm
34	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Copper as Cu	IS 3025 part 42/1992 : 2003	0.05 mg/l to 5 mg/l
35	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Fluoride	IS 3025 part- 60/Spadns Method: 2008	0.8 mg/l to 400 mg/l
36	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Iron as Fe	I.S. 3025 Part-53/ Clause-06: 2003	0.2 mg/l to 100 mg/l
37	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Magnesium	IS 3025 part-46/1994 : 2003	2 mg/l to 1000 mg/l
38	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Manganese as Mn	IS 3025 part 59/Clause 06: 2006	1 mg/l to 100 mg/l
39	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Nitrates	MCL/SOP/NO3: 2019	1 mg/l to 1000 mg/l
40	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Oil & Grease	IS 3025 Part39/Clause 07: 1991	10 mg/ml to 1000 mg/ml





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41	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	pH value	IS 3025 part-11/1983 : 2002	1 to 10
42	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Phenolphthalein (alk)	IS 3025 part-23/1986 : 2003	20 mg/l to 400 mg/l
43	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Residual chlorine (Free)	IS 3025 Part 26/ cl 3.0: 1986	1 mg/l to 5 mg/l
44	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Sulphates	IS 3025 part- 24/1986/Clause 02: 2003	10 mg/l to 2000 mg/l
45	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	TDS at 105 degree centigrade	IS 3025 part-4/1983: 2002	30 mg/l to 10000 mg/l
46	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total alkalinity	IS 3025 part-23/1986: 2003	20 mg/l to 2000 mg/l
47	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Chromium	IS 3025 Part 52 / Clause06: 2003	2 mg/l to 60 mg/l
48	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total hardness	IS 3025 part-21/1986: 2003	15 mg/l to 5000 mg/l
49	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Total Kjeldal Nitrogen	IS 3025 Part 34 /Clause2.3: 1988	2 mg/l to 1000 mg/l
50	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	TSS	MCL/SOP/TSS: 2019	20 mg/l to 4000 mg/l





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51	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Turbidity	IS 3025 part-10/1984: 2002	4 NTU to 40 NTU
52	CHEMICAL- POLLUTION & ENVIRONMENT	Waste Water	Zinc as Zn	IS 3025 Part 49/Clause05 - AAS: 1994	0.02 mg/l to 2 mg/l
53	CHEMICAL- WATER	(Drinking water /Bore well water/ Raw Water)	Calcium	IS 3025 part-40/1994 : 2003	2 mg/l to 500 mg/l
54	CHEMICAL- WATER	(Drinking water /Bore well water/ Raw Water)	Chlorides	IS 3025 part-32: 1988	2 mg/l to 1000 mg/l
55	CHEMICAL- WATER	(Drinking water /Bore well water/ Raw Water)	Colour	MCL/SOP/Color: 2019	5 Hazen to 100 Hazen
56	CHEMICAL- WATER	(Drinking water /Bore well water/ Raw Water)	Conductivity	IS 3025: Part-14: 1984	5 micromhos/cm to 5000 micromhos/cm
57	CHEMICAL- WATER	(Drinking water /Bore well water/ Raw Water)	Fluoride	IS 3025 part- 60/Spadns Method: 2008	0.2 mg/l to 100 mg/l
58	CHEMICAL- WATER	(Drinking water /Bore well water/ Raw Water)	Iron as Fe	I.S. 3025 Part-53 / Clause-06: 2003	0.1 mg/l to 100 mg/l
59	CHEMICAL- WATER	(Drinking water /Bore well water/ Raw Water)	Magnesium	IS 3025 part-46/1994: 2003	2 mg/l to 500 mg/l
60	CHEMICAL- WATER	(Drinking water /Bore well water/ Raw Water)	Manganese as Mn	IS 3025 part 59/Clause 06: 2006	1 mg/l to 100 mg/l
61	CHEMICAL- WATER	(Drinking water /Bore well water/ Raw Water)	Nitrates	MCL/SOP/NO3: 2019	1 mg/l to 500 mg/l
62	CHEMICAL- WATER	(Drinking water /Bore well water/ Raw Water)	pH value	IS 3025 part-11/1983: 2002	1 to 10
63	CHEMICAL- WATER	(Drinking water /Bore well water/ Raw Water)	Phenolphthalein (alk)	IS 3025 part-23/1983: 2002	5 mg/l to 100 mg/l





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64	CHEMICAL- WATER	(Drinking water /Bore well water/ Raw Water)	Sulphates	IS 3025 part- 24/1986/Clause 02.: 2003	10 mg/l to 500 mg/l
65	CHEMICAL- WATER	(Drinking water /Bore well water/ Raw Water)	T.S.S	MCL/SOP/TSS: 2019	5 mg/l to 1000 mg/l
66	CHEMICAL- WATER	(Drinking water /Bore well water/ Raw Water)	Total alkalinity	IS 3025 part-23/1986: 2003	5 mg/l to 500 mg/l
67	CHEMICAL- WATER	(Drinking water /Bore well water/ Raw Water)	Total Chromium	IS 3025 Part 52 / Clause06: 2003	2 mg/l to 60 mg/l
68	CHEMICAL- WATER	(Drinking water /Bore well water/ Raw Water)	Total hardness	IS 3025 part-21/1991 : 2003	3 mg/l to 1000 mg/l
69	CHEMICAL- WATER	(Drinking water /Bore well water/ Raw Water)	Turbidity	IS 3025 part-10/1984 : 2002	1 NTU to 20 NTU
70	CHEMICAL- WATER	Water(Drinking water /Bore well water/ Raw Water)	TDS	IS 3025 part-16-1983: 2002	8 mg/l to 3000 mg/l