

Quality And Accreditation Institute Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Certificate of Accreditation

Mitra S. K. Private Limited

Plot No.-178, Sec-A, Zone B, 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/2023/0013

(Date of First Accreditation: 12 July 2023 - 11 July 2025)

Valid from: 12 July 2025

Valid until: 11 July 2027

Dr. Bhupendra Kumar Rana
Chief Executive Officer

Prof. Vikram Kumar
Chair, CIA

User is advised to verify the current scope of accreditation by visiting our website: www.qai.org.in



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ores & Minerals		
1.	Iron Ore (Lumps/ Fines/ Pellets)	Silica	IS 1493 Part 1: 1981
2.		Silica	ISO 2598-1: 1992
3.		Total Iron	IS 1493 Part 1: 1981
4.		Total Iron	ISO 2597-1: 2006
5.		Ferrous Iron	ISO 9035: 1989
6.		Alumina	IS 1493 Part 1: 1981
7.		Phosphorus	IS 1493 Part 1: 1981
8.		Phosphorus	Indian Bureau of Mines: Procedure Manual-2012
9.		Sulphur	ASTM E1915-20
10.		Manganese	IS 1493: 1959
11.		Loss on Ignition	ISO 11536:2015
12.		Total Moisture	IS 1493 Part 1: 1981
13.		Total Moisture	IS 11690:1986
14.		Transportable Moisture limit & Flow Moisture Point	IMSBC Code (Appendix 2) 2023 (Flow table method)
15.		TML (Transportable Moisture Limit)	IMSBC Code (Appendix 2) 2023, (Modified Proctor Fagerberg Method)
16.		Crushing Strength Testing	ISO 4700: 2015

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	Ores & Minerals			
17.	Iron Ore (Lumps/ Fines/ Pellets)	Crushing Strength Testing	IS 8625: 1986	
18.	Manganese Ore	Silica	IS 1473: 2004	
19.		Manganese	IS 1473: 2004	
20.		Manganese	ISO 4298: 2022 (By Potentiometric method)	
21.		Manganese Dioxide	IS 1473: 2004	
22.		Iron	IS 1473: 2004	
23.		Alumina	IS 1473: 2004	
24.		Sulphur	ASTM E1915-20	
25.		Phosphorus	IS 1473: 2004	
26.		Phosphorus	Indian Bureau of Mines. Procedure Manual-2012	
27.		Total Moisture	IS 1449: 2010 & IS 1473: 2004	
28.		Transportable Moisture limit & flow Moisture Point	IMSBC Code (Appendix 2) 2023 (Flow table method)	
29.		Chromite Ore/ Chrome Concentrate	Silica	IS 4737: 1982
30.			Chromium Oxide	IS 4737: 1982
31.			Total Iron	IS 4737: 1982

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	Ores & Minerals		
32.	Chromite Ore/ Chrome Concentrate	Alumina	IS 4737: 1982
33.		Alumina	SOP-TPM/MSK/3/D/1 (Issue No 02, Dated 01.04.2015)
34.		Calcium Oxide	IS 4737: 1982
35.		Magnesium Oxide	IS 4737: 1982
36.		Phosphorus	Indian Bureau of Mines -2012
37.		Phosphorus	IS 5305: 1969
38.		Sulphur	ASTM E1915-20
39.		Total Moisture	IS 8562: 1977 & IS 4737: 1982
40.		Transportable Moisture limit & flow Moisture Point	IMSBC Code (Appendix 2) 2023 (Flow table method)
41.		TML (Transportable Moisture Limit)	IMSBC Code (Appendix 2) 2023 (Proctor Fagerberg Method)
42.		Bauxite	Loss on ignition
43.	Silica		IS 2000 Part-2: 1985
44.	Alumina		IS 2000 Part-3: 1985
45.	Ferric Oxide		IS 2000 Part-4: 1985
46.	Limestone	Loss on ignition	IS 1760 Part -1: 2025
47.		Silica	IS 1760 Part -2: 2025

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
Ores & Minerals			
48.	Limestone	Ferric Oxide	SOP: TPM/MSK/5/C3 (Issue No:1 Dated 22.09.2012)
49.		Alumina	IS 1760 Part-3: 2025
50.		Calcium Oxide	IS 1760 Part-3: 2025
51.		Magnesium Oxide	IS 1760 Part-3: 2025
52.		Sodium Oxide	IS 9497: 1980
53.		Potassium Oxide	IS 9497: 1980
54.		Dolomite	Loss on ignition
55.	Silica		IS 1760 Part -2: 2025
56.	Ferric Oxide		SOP: TPM/MSK/5/C3 (Issue No:1 Dated 22.09.2012)
57.	Alumina		IS 1760 Part-3: 2025
58.	Calcium Oxide		IS 1760 Part-3 :2025
59.	Magnesium Oxide		IS 1760 Part-3: 2025
60.	Sodium Oxide		IS 9497: 1980
61.	Potassium Oxide	IS 9497: 1980	
62.	Gypsum	Free water	ASTM C471M-24
63.		Free water	IS 1288: 1982

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ores & Minerals		
64.	Gypsum	Combined water	ASTM C471M-24
65.		Combined water	IS 1288: 1982
66.		Silica (SiO ₂) and Acid Insoluble	ASTM C471M-24
67.		Silica (SiO ₂) and Acid Insoluble	IS 1288: 1982
68.		Calcium Oxide	ASTM C471M-24
69.		Calcium Oxide	IS 1288: 1982
70.		Magnesium Oxide	ASTM C471M-24
71.		Magnesium Oxide	IS 1288: 1982
72.		Sulphur Trioxide	ASTM C471M-24
73.		Sulphur Trioxide	IS 1288: 1982
74.		Calcium Sulfate Dihydrate	ASTM C471M-24
75.		Calcium Sulfate Dihydrate	IS 1288: 1982
76.		Mixed Oxide (Ferric Oxide + Alumina)	ASTM C471M-24
77.		Mixed Oxide (Ferric Oxide + Alumina)	IS 1288: 1982
78.	Purity	ASTM C471M-24	
79.	Copper Ore & Copper Concentrate	Total Moisture	ISO 10251: 2006

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ores & Minerals		
80.	Copper Ore & Copper Concentrate	Flow Moisture Point	IMSBC Code (Appendix 2) 2023 (Flow table method)
81.		Transportable Moisture limit	IMSBC Code (Appendix 2) 2023 (Flow table method)
82.		Flow Moisture Point	ISO 12742: 2020
83.		Transportable Moisture limit	ISO 12742: 2020
84.	Zinc Ore & Zinc Concentrate	Total Moisture	ISO 10251: 2006
85.		Flow Moisture Point	IMSBC Code (Appendix 2) 2023 (Flow table method)
86.		Transportable Moisture limit	IMSBC Code (Appendix 2) 2023 (Flow table method)
87.		Flow Moisture Point	ISO 12742: 2020
88.		Transportable Moisture limit	ISO 12742: 2020



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuel		
1.	Coal	Total Moisture	IS 1350 Part-1: 2025
2.		Total Moisture	ISO 589: 2008
3.		Total Moisture	ASTM D 3302/D 3302M-22a
4.		Equilibrate Moisture	IS 1350 Part-1: 2025
5.		Moisture	IS 1350 Part-1: 2025
6.		Moisture	ISO 11722: 2013
7.		Moisture	ASTM D3173 / D3173M-17a
8.		Volatile Matter (Different Basis & Equilibrate Basis)	IS 1350 Part-1: 2025
9.		Volatile Matter (Different Basis & Equilibrate Basis)	ISO 562: 2024
10.		Volatile Matter (Different Basis & Equilibrate Basis)	ASTM D 3175 -20
11.		Ash (Different Basis & Equilibrate Basis)	IS 1350 Part-1: 2025
12.		Ash (Different Basis & Equilibrate Basis)	ISO 1171: 2024
13.		Ash (Different Basis & Equilibrate Basis)	ASTM D 3174-12(2018) e1
14.		Fixed Carbon (By Difference)	IS 1350 Part-1: 2025

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Chemical Testing				
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method	
	Solid Fuel			
15.	Coal	Fixed Carbon (By Difference)	ISO 17246: 2024	
16.		Fixed Carbon (By Difference)	ASTM D 3172-13 (2021) e1	
17.		Sulphur	IS 1350 Part-3: 2022	
18.		Sulphur	ISO 334: 2020	
19.		Crucible Swelling Number	IS 1353 Part-1: 2018	
20.		Crucible Swelling Number	ASTM D720/D720M-25	
21.		Phosphorus	IS 1350 Part-5: 2017	
22.		Gross Calorific Value (Different Basis)	IS 1350 Part-2: 2022	
23.		Gross Calorific Value (Different Basis)	ISO 1928: 2020	
24.		Gross Calorific Value (Different Basis)	ASTM D 5865/ D5865M-19	
25.		TML (Transportable Moisture Limit)	IMSBC Code (Appendix 2) 2023 (Modified Proctor Fagerberg Method)	
26.		Coke	Total Moisture	IS 1350 Part-1: 2025
27.			Total Moisture	ISO 579: 2013
28.	Moisture		IS 1350 Part-1: 2025	
29.	Moisture		ISO 687: 2024	

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuel		
30.	Coke	Moisture	ASTM D3173 / D3173M-17a
31.		Volatile Matter (Different Basis)	IS 1350 Part-1: 2025
32.		Volatile Matter (Different Basis)	ISO 562: 2024
33.		Volatile Matter (Different Basis)	ASTM D 3175 -20
34.		Ash (Different Basis)	IS 1350 Part-1: 2025
35.		Ash (Different Basis)	ISO 1171: 2024
36.		Ash (Different Basis)	ASTM D 3174 -12(2018) e1
37.		Fixed Carbon (By Difference)	IS 1350 Part-1: 2025
38.		Fixed Carbon (By Difference)	ISO 17246: 2024
39.		Fixed Carbon (By Difference)	ASTM D 3172 -13(2021) e1
40.		Sulphur	IS 1350 Part 3: 2022
41.		Sulphur	ISO 334: 2020
42.		Phosphorus	IS 1350 Part - 5
43.		Gross Calorific Value (Different Basis)	IS 1350 Part 2: 2022
44.		Gross Calorific Value (Different Basis)	ISO 1928:2020
45.	Gross Calorific Value (Different Basis)	ASTM D 5865/ D5865M-19	

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
1.	High Carbon Ferro Chrome	Silicon	IS 13452:2019
2.		Chromium	IS 13452:2019
3.		Chromium	ISO 4140:1979
4.		Phosphorus	IS 13452:2019
5.		Phosphorus	SOP: TPM/MSK/8/C (Issue No .02 dated 01.04.2015)
6.		Carbon	ISO 15350:2000
7.		Sulphur	ISO 15350:2000
8.	Ferro Manganese	Silicon	IS 1559:1961
9.		Manganese	IS 1559:1961
10.		Manganese	ISO 4159:1978
11.		Phosphorus	IS 1559:1961
12.		Carbon	ISO 15350:2000
13.		Sulphur	ISO 15350:2000
14.	Silico Manganese	Silicon	IS 1559:1961
15.		Silicon	ISO 4158: 1978
16.		Manganese	IS 1559:1961

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals and Alloys		
17.	Silico Manganese	Manganese	ISO 4159:1978
18.		Phosphorus	IS 1559:1961
19.		Carbon	ISO 15350:2000
20.		Sulphur	ISO 15350:2000
21.	Pig Iron/ Cast Iron	Silicon	IS 12308 Part-6: 1991
22.		Manganese	IS12308 Part -10: 1991
23.		Phosphorus	IS12308 Part -5: 1991
24.		Carbon	ISO 15350: 2000
25.		Sulphur	ISO 15350: 2000



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Chemical Testing (Site Facility)			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ores & Minerals		
1.	Iron Ore including Iron Ore Pellets	Moisture	IS 11690: 1986
2.	Chrome Ore including Chrome Concentrate	Moisture	IS 8562: 1977
3.	Manganese Ore/ Manganese dioxide	Moisture	IS 1449: 2010



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Sampling			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ores & Minerals		
1.	Iron Ore including Iron Ore Pellets	Sampling	IS 1405: 2010 IS 9101: 1979
2.	Chrome Ore including Chrome Concentrate	Sampling	IS 8562: 1977
3.	Manganese Ore /Manganese dioxide	Sampling	IS 1449: 2010
4.	Ferro Manganese including Ferro Manganese slag	Sampling	IS 1472 :1977
5.	Coal/Coke	Sampling	IS 436 Part-1/Section -1:2024 ISO 18283:2022 ASTM D 2234/D2234M-20 ASTM D 346/D 346M-11(2019) e1

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