

Quality And Accreditation Institute

Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Certificate of Accreditation

Mitra S. K. Private Limited

Door No. 8-45-9/2/1/B, C Vidyanagar Colony, 4th Lane, Old CBI Down,
Visakhapatnam-530003, Andhra Pradesh, 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/2024/0089

Valid from: 16 December 2024

Valid until: 15 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
	Ores & Minerals		
1.	Iron Ore	Alumina	IS 1493 (Part- 1): 1981 RA 2021
2.	Iron Ore	Alumina	ISO 6830: 1986 RA 2021
3.	Iron Ore	Alumina	SOP:TPM/MSK/1/C1 (Issue Date 01.06.2018): 2018
4.	Iron Ore	Moisture	IS 11690: 1986, RA 2023
5.	Iron Ore	Moisture	IS 1493 (Part-1): 1981 RA 2021
6.	Iron Ore	Phosphorus	IS 1493: 1959, RA 2021
7.	Iron Ore	Silica	IS 1493 (Part-1): 1981, RA 2021
8.	Iron Ore	Silica	ISO 2598-1: 1992
9.	Iron Ore	Sulphur	ASTM E1915: 2020
10.	Iron Ore	Sulphur	ISO 4689-3: 2017, RA 2022
11.	Iron Ore	Total iron	IS 1493 (Part-1): 1981, RA 2021
12.	Iron Ore	Total iron	ISO 2597-1: 2006 RA 2022
13.	Iron Ore	Transportable moisture limit (TML)	IMSBC Code, Appendix 2: 2023 (By Flow Table Method)
14.	Iron Ore	Flow moisture point (FMP)	IMSBC Code, Appendix 2: 2023 (By Flow Table Method)
15.	Limestone	Alumina as Al ₂ O ₃	IS 1760 (Part-3): 1992 RA 2022
16.	Limestone	Calcium oxide as CaO	IS 1760 (Part-3): 1992 RA 2022

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ores & Minerals		
17.	Limestone	Ferric oxide as Fe ₂ O ₃	IS 1760 (Part-3): 1992 RA 2022
18.	Limestone	Loss on ignition (LOI)	IS 1760 (Part-1): 1991 RA 2022
19.	Limestone	Magnesium oxide as MgO	IS 1760 (Part-3): 1992 RA 2022
20.	Limestone	Silica as SiO ₂	IS 1760 (Part-2): 1991 RA 2022
21.	Manganese Ore	Alumina	IS 1473: 2004 RA 2021
22.	Manganese Ore	Alumina	SOP:TPM/MSK/2/D1 (Issue Date 01.06.2018): 2018
23.	Manganese Ore	Iron	IS 1473: 2004 RA 2021
24.	Manganese Ore	Manganese	IS 1473: 2004 RA 2021
25.	Manganese Ore	Manganese	ISO 4298: 2022 (Potentiometer Method)
26.	Manganese Ore	Moisture	ISO 4299: 1989
27.	Manganese Ore	Phosphorus	IS 1473: 2004 RA 2021
28.	Manganese Ore	Silica	IS 1473: 2004 RA 2021
29.	Manganese Ore	Silica	ISO 5890:1981 RA 2022
30.	Manganese Ore	Sulphur	ASTM E1915:2020
31.	Rock Phosphate	Calcium oxide	IS 9386: 1979 RA 2024
32.	Rock Phosphate	Carbon Di-Oxide	SOP: TPM/MSK/26/H (Issue Date 01.06.2018): 2018

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ores & Minerals		
33.	Rock Phosphate	Chloride	IS 11224: 1985 RA 2024 (A-10)
34.	Rock Phosphate	Loss on ignition (LOI)	IS 11224: 1985 RA 2024 (A-11-1)
35.	Rock Phosphate	Magnesium oxide	IS 11224: 1985 RA 2024
36.	Rock Phosphate	Organic matter	IS 11224: 1985 RA 2024(A-11-0)
37.	Rock Phosphate	Silica	IS 11224: 1985 RA 2024 (A-4)
38.	Rock Phosphate	Total moisture	IS 11224: 1985 RA 2024 (A-8)
39.	Rock Phosphate	Total P ₂ O ₅	IS 11224: 1985 RA 2024



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
1.	Coal	Ash	IS 1350 (Part-1): 1984 RA 2019
2.	Coal	Ash	ISO 1171:2024
3.	Coal	Ash	ASTM D3174- 12: (2018) E1
4.	Coal	Crucible swelling number (CSN)	IS 1353 (Part-1): 2018 (RA 2023)
5.	Coal	Crucible swelling number (CSN)	ASTM D720/D720M- 15e1: 2022
6.	Coal	Equilibrated moisture (at 40 °c and 60% relative humidity)	IS 1350 (Part-1): 1984 RA 2019
7.	Coal	Fixed carbon	ASTM D3172- 13: 2021
8.	Coal	Fixed carbon	IS: 1350 (Part-1): 1984 RA 2019
9.	Coal	Fixed carbon	ISO 17246: 2024
10.	Coal	Gross calorific value (GCV)	IS:1350 (Part-2): 2022
11.	Coal	Gross calorific value (GCV)	ASTM D5865: 2019
12.	Coal	Gross calorific value (GCV)	ISO 1928:2020
13.	Coal	Moisture	IS: 1350 (Part-1): 1984 RA 2019
14.	Coal	Moisture	ISO 11722:2013
15.	Coal	Moisture	ASTM D3173/ D3173M 17a: 2017
16.	Coal	Phosphorus	IS:1350 (Part-5): 2017
17.	Coal	Total Moisture	ASTM D3302/ D3302M-22a: 2022

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
18.	Coal	Total Moisture	IS :1350 (Part-1): 1984 RA 2019
19.	Coal	Total Moisture	ISO 589: 2008 RC 2023
20.	Coal	Total Sulphur	ISO 334: 2020
21.	Coal	Total Sulphur	IS 1350 (Part-3): 2022
22.	Coal	Volatile Matter	IS 1350 (Part-1): 1984, RA 2019
23.	Coal	Volatile Matter	ASTM D3175- 20: 2020
24.	Coal	Volatile Matter	ISO 562: 2010, RA 2021
25.	Coke	Ash	ASTM D3174-12: (2018) E1
26.	Coke	Ash	ISO 1171:2024
27.	Coke	Ash	IS 1350 (Part- 1): 1984 RA 2019
28.	Coke	Fixed Carbon	ASTM D3172- 13: 2021
29.	Coke	Fixed Carbon	IS 1350 (Part- 1): 1984, RA 2019
30.	Coke	Fixed Carbon	ISO 17246: 2024
31.	Coke	Gross Calorific Value (GCV)	ISO 1928:2020
32.	Coke	Gross Calorific Value (GCV)	ASTM D5865- 19: 2019
33.	Coke	Gross Calorific Value (GCV)	IS 1350 (Part- 2): 2022
34.	Coke	Moisture	IS 1350 (Part- 1): 1984, RA 2019
35.	Coke	Moisture	ISO 687: 2010, RA 2021

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
36.	Coke	Moisture	ASTM D3173/ D3173M-17a: 2017
37.	Coke	Phosphorus	IS 1350 (Part- 5): 2017
38.	Coke	Total Moisture	IS 1350 (Part- 1): 1984, RA 2019
39.	Coke	Total Moisture	ISO 579: 2013
40.	Coke	Total Moisture	ASTM D3302/ 3302M-22a
41.	Coke	Total Sulphur	IS 1350 (Part- 3): 2022
42.	Coke	Total Sulphur	ISO 334: 2020
43.	Coke	Volatile Matter	ASTM D3175- 20: 2020
44.	Coke	Volatile Matter	IS 1350 (Part-1) 1984, RA 2019
45.	Coke	Volatile Matter	ISO 562: 2010



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ferro Alloys		
1.	Ferro manganese	Silicon (Si)	IS 1559: 1961, RA 2023
2.	Ferro manganese	Manganese (Mn)	IS 1559: 1961, RA 2023
3.	Ferro manganese	Manganese (Mn)	ISO 4159: 1978 (Reconfirmed 2020)
4.	Ferro manganese	Carbon (C)	ASTM E 1915-2020
5.	Ferro manganese	Sulphur (S)	ASTM E 1915-2020
6.	Ferro manganese	Phosphorus (P)	IS 1559: 1961, RA 2023



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Sampling			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ferro Alloys		
1.	Iron ores	Sampling and sample preparation of iron ores – manual method	IS 1405:2010, Reaffirmed 2021
2.	Iron ore pellets	Methods of sampling iron ore pellets	IS 9101: 1979, Reaffirmed 2019
3.	Ferro manganese	Methods of sampling ferro alloys	IS 1472:1977, Reaffirmed 2022
4.	Ferro manganese	Sampling and sample preparation of ferroalloys	ISO 4552-1:1987
5.	Lime stone	Sampling of dolomite, limestone and other allied materials	IS 2109: 1982, Reaffirmed Year: 2019
6.	Rock phosphate	Sampling of rock phosphate	IS 11211:1984, Reaffirmed 2024
7.	Manganese ore	Sampling and sample preparation of manganese ores	IS 1449:2010, Reaffirmed 2021
8.	Manganese ore	Sampling and sample preparation of manganese ores	ISO 4296/1-1984; ISO 4296/2-1983
9.	Coal and coke	Sampling of coal and coke	IS 436: Part 1: Sec 1: 964 (Reaffirmed Year: 2024)
10.	Coal and coke	Coal and coke – manual sampling	ISO 18283:2022
11.	Coal and coke	Sampling and sample preparation of coal	ASTM D2013/ D2013M-24 & ASTM-D2234/2234M-20

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