

# Quality And Accreditation Institute Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



## Certificate of Accreditation

**Mitra S. K. Private Limited**

Plot No. 97, Sector 1A, Kutch,  
Gandhidham-370201, Gujarat, 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/2024/0077**

Valid from: 14 September 2024

Valid until: 13 September 2026

**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](http://www.qai.org.in)



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Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Ores and Minerals</b>		
1.	Bauxite	Alumina	IS 2000 Part 3: 1985: 2022
2.	Bauxite	Ferric Oxide	IS 2000 Part 4: 1985: 2022
3.	Bauxite	LOI	IS 2000 Part 1: 1985: 2022
4.	Bauxite	Moisture	TPM/MSK/GDM/5/A Dated 20.10.2023: 2023
5.	Bauxite	Silica	IS 2000 Part 2: 1985: 2022
6.	Bauxite	Titania	IS 2000 Part 5: 1985: 2022
7.	Iron Ore	Alumina	IS 1493 Part-1: 1981: 2021
8.	Iron Ore	Moisture	IS 11690: 1986: 2019
9.	Iron Ore	Moisture	IS 1493: 1959: 2021
10.	Iron Ore	Phosphorus	IS 1493 Part- 1: 1981: 2021
11.	Iron Ore	Phosphorus	TPM/MSK/GDM/2/D Dated 05.10.2023
12.	Iron Ore	Silica	IS 1493 Part- 1: 1981: 2021
13.	Iron Ore	Sulphur	IS 1493 Part- 1: 1981: 2021
14.	Iron Ore	Total Iron (Fe)	IS 1493 Part-1: 1981: 2021
15.	Iron Ore	LOI	TPM/MSK/1/V1/ (Issue No.3 dated- 03.11.2023)
16.	Limestone	Calcium Oxide as (CaO)	IS 1760 (Part 3): 1992: 2022
17.	Limestone	Ferric Oxide as (Fe <sub>2</sub> O <sub>3</sub> )	TPM/MSK/GDM0/27/00 Issue dated 10.12.2023: 2023
18.	Limestone	Ferric Oxide as (Fe <sub>2</sub> O <sub>3</sub> )	IS 1760 (Part 3): 1992 :2022
19.	Limestone	Loss on ignition	IS 1760 (Part 1): 1991: 2022
20.	Limestone	Magnesium Oxides (MgO)	IS 1760 (Part 3): 1992: 2022
21.	Limestone	Silica as (SiO <sub>2</sub> )	IS 1760 (Part 2): 1991: 2022
22.	Rock phosphate	Loss on Ignition (LOI)	IS 11224: 1985: 2020
23.	Rock phosphate	Moisture	IS 11224: 1985: 2020

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Ores and Minerals</b>		
24.	Rock Phosphate	Silica	IS 11224: 1985: 2020
25.	Rock Phosphate	Total (P <sub>2</sub> O <sub>5</sub> )	IS 11224: 1985: 2020 A-3.2
26.	Zinc Ore/ Zinc Concentrate	Zinc	TPM/MSK/48/A (Issue No.02 dated 01.04.2022)

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Solid Fuels</b>		
1.	Coal	Moisture	ASTM D 3173 / D 3173 M-17: 2017
2.	Coal	Moisture	IS 1350 Part 1: 1984: 2019
3.	Coal	Moisture	ISO 11722: 2013
4.	Coal	Total Moisture	ASTM D 3302/D 3302M 2022a
5.	Coal	Total Moisture	IS 1350 Part 1: 1984: 2019
6.	Coal	Total Moisture	ISO 589: 2008
7.	Coal	Equilibrated Moisture	IS 1350 Part 1: 1984: 2019
8.	Coal	Ash	ASTM D 3174- 12 (2018) e1
9.	Coal	Ash	IS 1350 Part 1: 1984: 2019
10.	Coal	Ash	ISO 1171: 2010
11.	Coal	Fixed Carbon	ASTM D 3172- 13 (2021) e1
12.	Coal	Fixed Carbon	IS 1350 Part 1: 1984: 2019
13.	Coal	Fixed Carbon	ISO 17246: 2010
14.	Coal	Gross Calorific Value	ASTM D 5865- 19: 2019
15.	Coal	Gross Calorific Value	ISO 1928: 2020
16.	Coal	Gross Calorific Value	IS 1350 Part 2: 2022
17.	Coal	Phosphorus	IS 1350 Part 5: 2017

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Solid Fuels</b>		
18.	Coal	Phosphorus	TPM/MSK/GDM/3/I Issue Dated 06.12.2023,
19.	Coal	Total Sulphur	ASTM D 4239- 18e1: 2018
20.	Coal	Total Sulphur	IS 1350 Part 3: 2022
21.	Coal	Total Sulphur	ISO 334: 2020
22.	Coal	Volatile Matter	ASTM D 3175-20: 2020
23.	Coal	Volatile Matter	IS 1350 Part 1: 1984
24.	Coal	Volatile Matter	ISO 562: 2010
25.	Coal	Hardgrove grindability Index (HGI)	IS 4433: 1979, RA 2020
26.	Coal	Hardgrove grindability Index (HGI)	ISO 5474: 2015, RC 2021
27.	Coke	Moisture	ASTM D 3173/ D 3173 M- 17a: 2017
28.	Coke	Moisture	IS 1350 Part 1: 1984 :2019
29.	Coke	Moisture	ISO 687: 2010
30.	Coke	Total Moisture	ASTM D 3302/ D 3302 M-19: 2022a
31.	Coke	Total Moisture	IS 1350 Part 1: 1984: 2019
32.	Coke	Total Moisture	ISO 579: 2013
33.	Coke	Ash	ASTM D 3174- 12 (2018) e1
34.	Coke	Ash	IS 1350 Part 1: 1984 :2019
35.	Coke	Ash	ISO 1171: 2010
36.	Coke	Fixed Carbon	ASTM D 3172- 13 (2021) e1
37.	Coke	Fixed Carbon	IS 1350 Part 1: 1984 :2019
38.	Coke	Fixed Carbon	ISO 17246: 2010
39.	Coke	Gross Calorific Value	ASTM D 5865- 19: 2019
40.	Coke	Gross Calorific Value	ISO 1928: 2020
41.	Coke	Gross Calorific Value	IS 1350 Part 2: 2022

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Solid Fuels</b>		
42.	Coke	Phosphorus	IS 1350 Part 5: 1979
43.	Coke	Phosphorus	TPM/MSK/GDM/3/I Issue Dated 06.12.2023,
44.	Coke	Total Sulphur	ASTM D 4239- 18e1: 2018
45.	Coke	Total Sulphur	IS 1350 Part 3: 2022
46.	Coke	Total Sulphur	ISO 334: 2020
47.	Coke	Volatile Matter	ASTM D 3175-20: 2020
48.	Coke	Volatile Matter	IS 1350 Part 1: 1984: 2019
49.	Coke	Volatile Matter	ISO 562: 2010



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Sampling			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Ores and Minerals</b>		
1.	Bauxite	Sampling of Bauxite	IS 1999: 2019
2.	Iron Ore/ Mill Scale	Iron Ore/ Mill Scale sampling and sample preparation manual method	IS 1405: 2021
3.	Iron Ore	Method of sampling Iron Ore pellets	IS 9101: 2019
4.	Limestone	Sampling of Lime Stone	IS 2109: 2019
5.	Rock Phosphate	Sampling of Rock Phosphate	IS 11211: 2019
6.	Zinc Ore/ Concentrate and Lead Ore/Concentrate	Zinc & Lead concentrate Sampling	IS 10816: 2019

Sampling			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	<b>Solid Fuels</b>		
1.	Coal & Coke	Sampling Of Coal & Coke	IS-436 Part 1 Section -1 2019
2.	Coal & Coke	Sampling Of Coal & Coke	ISO 18283: 2022
3.	Coal & Coke	Sampling Of Coal & Coke	ASTM D 2234-M-10

