

Quality And Accreditation Institute Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Certificate of Accreditation

Cotecna Inspection India Private Limited

2nd Floor, C-5, Industrial Estate, G.K. Print House Building,
Kapparada, Kancharapalem,
Visakhapatnam-530008, 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/2024/0040

(Date of First Accreditation: 15 February 2024 - 14 February 2026)

Valid from: 15 February 2026

Valid until: 14 February 2028

Dr. Bhupendra Kumar Rana
Chief Executive Officer

Prof. Vikram Kumar
Chair, CIA



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Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
1.	Coal	AFT - Flow Temperature (FT) Oxidising Atmosphere	ASTM D 1857/D1857M-24
2.	Coal	AFT - Flow Temperature (FT) Reducing Atmosphere	ASTM D 1857/D1857M-24
3.	Coal	AFT - Hemispherical Temperature (HT) Reducing Atmosphere	ASTM D 1857/D1857M-24
4.	Coal	AFT - Hemispherical Temperature (HT) Oxidising Atmosphere	ASTM D 1857/D1857M-24
5.	Coal	AFT - Initial Deformation Temperature (IDT) Oxidising Atmosphere	ASTM D 1857/D1857M-24
6.	Coal	AFT - Initial Deformation Temperature (IDT) Reducing Atmosphere	ASTM D 1857/D1857M-24
7.	Coal	AFT - Softening Temperature (ST) Oxidising Atmosphere	ASTM D 1857/D1857M-24
8.	Coal	Aft - Softening Temperature (ST) Reducing Atmosphere	ASTM D 1857/D1857M-24

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	Solid Fuels		
9.	Coal	Alumina (as Al ₂ O ₃)	Chemical and Instrumental Analysis of Ores, Minerals, Ore Dressing Products and Environmental Samples, IBM: February 2012
10.	Coal	Ash	ISO 1171: 2024
11.	Coal	Ash	IS 1350 (PART-1): 2025
12.	Coal	Ash	ASTM D 3174: 2012
13.	Coal	Ash Fusibility -Flow Temperature (FT)- Oxidizing Atmosphere	ISO 540: 2025
14.	Coal	Ash Fusibility -Flow Temperature (FT)- Reducing atmosphere	ISO 540: 2025
15.	Coal	Ash Fusibility -Flow Temperature (FT)- Reducing atmosphere	ISO 540: 2025
16.	Coal	Ash Fusibility -Hemi Spherical Temperature (HT)- Oxidizing Atmosphere	ISO 540: 2025
17.	Coal	Ash Fusibility-Hemi Spherical Temperature (HT)- Reducing Atmosphere	ISO 540: 2025

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	Solid Fuels		
18.	Coal	Ash Fusibility-Initial Deformation Temperature (IDT)- Oxidizing Atmosphere	ISO 540: 2025
19.	Coal	Ash Fusibility-Initial Deformation Temperature (IDT)- Reducing Atmosphere	ISO 540: 2025
20.	Coal	Ash Fusibility- Softening Temperature (ST)- Oxidizing Atmosphere	ISO 540: 2025
21.	Coal	Ash Fusibility- Softening Temperature (ST)- Reducing atmosphere	ISO 540: 2025
22.	Coal	Calcium Oxide (as CaO)	Chemical and Instrumental Analysis of Ores, Minerals, Ore Dressing Products and Environmental Samples, IBM: February,2012
23.	Coal	Carbon (as C)	ASTM D 5373: 2021
24.	Coal	Carbon (as C)	ISO 29541: 2025
25.	Coal	Crucible Swelling Number	IS 1353 (PART-1): 2018
26.	Coal	Crucible Swelling Number	ASTM D 720/D720 M-25
27.	Coal	Equilibrated Moisture at 60% RH @ 40 °C)	IS 1350 (PART-1): 2025

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	Solid Fuels		
28.	Coal	Ferric Oxide (as Fe ₂ O ₃)	Chemical and Instrumental Analysis of Ores, Minerals, Ore Dressing Products and Environmental Samples, IBM: February 2012
29.	Coal	Fixed Carbon	ASTM D 3172: 2013
30.	Coal	Fixed Carbon	IS 1350 (PART-1): 2025
31.	Coal	Gross Calorific Value	IS 1350 (PART-2): 2022
32.	Coal	Gross Calorific Value	ASTM D 5865 /D 5865 M: 2019
33.	Coal	Gross Calorific Value	ISO 1928: 2025
34.	Coal	HGI	ASTM D409/D409M-24
35.	Coal	Hydrogen (As H)	ISO 29541: 2025
36.	Coal	Hydrogen (As H)	ASTM D 5373: 2021
37.	Coal	Potassium Oxide (as K ₂ O)	Chemical and Instrumental Analysis of Ores, Minerals, Ore Dressing Products and Environmental Samples, IBM: February 2012
38.	Coal	Magnesium (as MgO)	Chemical and Instrumental Analysis of Ores, Minerals, Ore Dressing Products and Environmental Samples, IBM: February,2012

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
39.	Coal	Manganese (as Mn ₃ O ₄)	Chemical and Instrumental Analysis of Ores, Minerals, Ore Dressing Products and Environmental Samples, IBM: February,2012
40.	Coal	Moisture In Analysis Sample	ASTM D 3173/D3173M-25
41.	Coal	Moisture In Analysis Sample	IS 1350 (PART-1): 2025
42.	Coal	Moisture In Analysis Sample	ISO 11722: 2013
43.	Coal	Sodium (as Na ₂ O)	Chemical and Instrumental Analysis of Ores, Minerals, Ore Dressing Products and Environmental Samples, IBM: February 2012
44.	Coal	Net Calorific Value (NCV)	ASTM D5865/D5865M: 2019
45.	Coal	Net Calorific Value (NCV)	ISO 29541: 2025
46.	Coal	Nitrogen (as N)	ISO 29541: 2025
47.	Coal	Nitrogen (as N)	ASTM D 5373: 2021
48.	Coal	Oxygen (as O)	ASTM D 3176: 24
49.	Coal	Phosphorus (as P ₂ O ₅)	Chemical and Instrumental Analysis of Ores, Minerals, Ore Dressing Products and Environmental Samples, IBM: February,2012

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
50.	Coal	Phosphorus	IS 1350 (PART-5): 2017
51.	Coal	Silica (as SiO ₂)	Chemical and Instrumental Analysis of Ores, Minerals, Ore Dressing Products and Environmental Samples, IBM: February,2012
52.	Coal	Sulphur (as SO ₃)	Chemical and Instrumental Analysis of Ores, Minerals, Ore Dressing Products and Environmental Samples, IBM: February,2012
53.	Coal	Sulphur (as S)	IS 1350 (PART-3) : 2022
54.	Coal	Sulphur (as S)	ASTM D 4239:2018 e1
55.	Coal	Sulphur (as S)	ISO 334: 2020
56.	Coal	Sulphur (as S)	ISO 19579: 2006
57.	Coal	Titania (as TiO ₂)	Chemical and Instrumental Analysis of Ores, Minerals, Ore Dressing Products and Environmental Samples, IBM: February 2012
58.	Coal	Total Moisture	ISO 589: 2008
59.	Coal	Total Moisture	ASTM D 3302 / D 3302 M: 2022
60.	Coal	Total Moisture	IS 1350 (PART-1): 2025

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
61.	Coal	Volatile Matter	IS 1350 (PART-1): 2025
62.	Coal	Volatile Matter	ASTM D 3175: 2020
63.	Coal	Volatile Matter	ISO 562: 2024
64.	Coal	Moisture in analysis sample	ASTM D 7582-24
65.	Coal	Ash	ASTM D 7582-24
66.	Coal	Volatile Matter	ASTM D 7582-24
67.	Coal	Fixed Carbon	ASTM D 7582-24
68.	Coke	Aft - Flow Temperature (FT) Oxidising Atmosphere	ASTM D 1857/D1857M-24
69.	Coke	Aft - Flow Temperature (FT) Reducing Atmosphere	ASTM D 1857/D1857M-24
70.	Coke	Aft - Hemispherical Temperature (HT)Oxidising Atmosphere	ASTM D 1857/D1857M-24
71.	Coke	Aft - Hemispherical Temperature (HT) Reducing Atmosphere	ASTM D 1857/D1857M-24
72.	Coke	Aft - Initial Deformation Temperature (IDT) Oxidising Atmosphere	ASTM D 1857/D1857M-24

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
73.	Coke	Aft - Initial Deformation Temperature (IDT) Reducing Atmosphere	ASTM D 1857/D1857M-24
74.	Coke	Aft - Softening Temperature (St)Oxidising Atmosphere	ASTM D 1857/D1857M-24
75.	Coke	Aft - Softening Temperature (St)Reducing Atmosphere	ASTM D 1857/D1857M-24
76.	Coke	Ash	ASTM D 3174: 2012
77.	Coke	Ash	IS 1350 (PART-1): 2025
78.	Coke	Carbon (as C)	ASTM D 5373: 2021
79.	Coke	Fixed Carbon	IS 1350 (PART-1): 2025
80.	Coke	Fixed Carbon	ASTM D 3172: 2013
81.	Coke	Gross Calorific Value	ASTM D 5865 / D 5865 M: 2019
82.	Coke	Gross Calorific Value	IS 1350 (PART-2): 2022
83.	Coke	Hydrogen (As H)	ASTM D 5373: 2021
84.	Coke	Moisture In Analysis Sample	IS 1350 (PART-1): 2025
85.	Coke	Moisture In Analysis Sample	ASTM D 3173/D3173M-25
86.	Coke	Net Calorific Value (NCV)	ASTM D5865/D5865M: 2019

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
87.	Coke	Nitrogen (As N)	ASTM D 5373: 2021
88.	Coke	Oxygen (As O)	ASTM D 3176: 24
89.	Coke	Phosphorus (As P)	IS 1350 (PART-5): 2017
90.	Coke	Sulphur (As S)	IS 1350 (PART-3): 2022
91.	Coke	Sulphur (As S)	ASTM D 4239: 2018
92.	Coke	Total Moisture	ASTM D 3302 / D 3302 M: 2022
93.	Coke	Total Moisture	IS 1350 (PART-1): 2025
94.	Coke	Volatile Matter	IS 1350 (PART-1): 2025
95.	Coke	Volatile Matter	ASTM D 3175: 2020
96.	Coke	Moisture in analysis sample	ASTM D 7582-24
97.	Coke	Ash	ASTM D 7582-24
98.	Coke	Volatile Matter	ASTM D 7582-24
99.	Coke	Fixed Carbon	ASTM D 7582-24

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ores and Minerals		
1.	Bauxite	Alumina (as Al ₂ O ₃)	IS 2000 (PART-3) : 1985
2.	Bauxite	Ferric Oxide (as Fe ₂ O ₃)	IS 2000 (PART- 4):1985
3.	Bauxite	Loss On Ignition	IS 2000 (PART-1) : 1985
4.	Bauxite	Phosphorus (as P ₂ O ₅)	IS 2000 (PART-7): 2001
5.	Bauxite	Reactive SiO ₂	Chemical and Instrumental Analysis of Ores, Minerals, Ore Dressing Products and Environmental Samples, IBM: February 2012
6.	Bauxite	Silica (as SiO ₂)	IS 2000 (PART-2): 1985
7.	Bauxite	Titanium Oxide (as TiO ₂)	IS 2000 (PART-5): 1985
8.	Chromite Ore	Alumina (as Al ₂ O ₃)	SOP No. TPM/CIPL/VSP/03D2 Issue No.01, Issue Date:01-03-2016: 2016
9.	Chromite Ore	Calcium Oxide (as CaO)	SOP No. TPM/CIPL/VSP/03E2 Issue No.01, Issue Date:01-03-2016: 2016
10.	Chromite Ore	Calcium Oxide (as CaO)	IS 4737: 1982
11.	Chromite Ore	Chromium Oxide (as Cr ₂ O ₃)	IS 4737: 1982
12.	Chromite Ore	Iron (as Fe)	IS 4737: 1982

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ores and Minerals		
13.	Chromite Ore	Magnesium Oxide (as MgO)	IS 4737:1982
14.	Chromite Ore	Magnesium Oxide (as MgO)	SOP No. TPM/CIPL/VSP/03F2 Issue No.01, Issue Date:01-03-2016: 2016
15.	Chromite Ore	Moisture	IS 4737: 1982
16.	Chromite Ore	Phosphorus (as P)	SOP No. TPM/CIPL/VSP/03G2 Issue No.01, Issue Date: 01-03-2016: 2016
17.	Chromite Ore	Silica (as SiO ₂)	IS 4737:1982
18.	Iron Ore	Alumina (as Al ₂ O ₃)	IS 1493 (PART-1): 2025
19.	Iron Ore	Alumina (as Al ₂ O ₃)	Chemical and Instrumental Analysis of Ores, Minerals, Ore Dressing Products and Environmental Samples, IBM: February, 2012
20.	Iron Ore	Phosphorus (as P)	IS 1493 (PART-1): 2025
21.	Iron Ore	Phosphorus (as P)	SOP No. TPM/CIPL/VSP/01D2 Issue No.01, Issue Date: 01-03-2016: 2016
22.	Iron Ore	Silica (as SiO ₂)	IS 1493 (PART-1): 2025
23.	Iron Ore	Total Iron (as Fe)	IS 1493 (PART-1): 2025

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Ores and Minerals		
24.	Iron Ore	Loss On Ignition	Chemical and Instrumental Analysis of Ores, Minerals, Ore Dressing Products and Environmental Samples, IBM, February: 2012
25.	Iron Ore	Moisture	IS 1493 (PART-1): 2025
26.	Iron Ore	Sulphur (as S)	IS 1493 (PART-1): 2025
27.	Dolomite	Alumina (as Al ₂ O ₃)	IS 1760 (PART-3): 2025
28.	Dolomite	Calcium Oxide (as CaO)	IS 1760 (PART-3): 2025
29.	Dolomite	Ferric Oxide (as Fe ₂ O ₃)	SOP No. TPM/CIPL/VSP/04C2 Issue No.02, Issue Date: 08-01-2018: 2018
30.	Dolomite	Ferric Oxide (as Fe ₂ O ₃)	IS 1760 (PART-3): 2025
31.	Dolomite	Loss On Ignition	IS 1760 (PART-1): 2025
32.	Dolomite	Magnesium Oxide (as MgO)	IS 1760 (PART-3): 2025
33.	Dolomite	Silica (as SiO ₂)	IS 1760 (PART-2): 2025
34.	Lime Stone	Alumina (as Al ₂ O ₃)	IS 1760 (PART-3): 2025
35.	Lime Stone	Calcium Oxide (as CaO)	IS 1760 (PART- 3):2025
36.	Lime Stone	Ferric Oxide (as Fe ₂ O ₃)	IS 1760 (PART- 3):2025

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	Ores and Minerals		
37.	Lime Stone	Ferric Oxide (as Fe ₂ O ₃)	SOP No. TPM/CIPL/VSP/04C2 Issue No.02, Issue Date: 08-01-2018: 2018
38.	Lime Stone	Loss On Ignition	IS 1760 (PART-1): 2025
39.	Lime Stone	Magnesium Oxide (as MgO)	IS 1760 (PART-3): 2025
40.	Lime Stone	Silica (as SiO ₂)	IS 1760 (PART-2): 2025
41.	Manganese Ore	Alumina (as Al ₂ O ₃)	SOP No. TPM/CIPL/VSP/02/D2 Issue No.01, Issue Date: 01-03-2016: 2016
42.	Manganese Ore	Alumina (as Al ₂ O ₃)	IS 1473: 2004
43.	Manganese Ore	Iron (as Fe)	IS 1473 :2004
44.	Manganese Ore	Manganese (as MN)	IS 1473 :2004
45.	Manganese Ore	Manganese (as MN)	ISO 4298: 2022
46.	Manganese Ore	Phosphorus (as P)	IS 1473 :2004
47.	Manganese Ore	Phosphorus (as P)	SOP No. TPM/CIPL/VSP/02E2 Issue No.01, Issue Date: 01-03-2016: 2016
48.	Manganese Ore	Silica (as SiO ₂)	IS 1473: 2004
49.	Rock Phosphate	Loss On Ignition	IS 11224: 1985

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	Ores and Minerals		
50.	Rock Phosphate	Moisture	IS 11224: 1985
51.	Rock Phosphate	Total Phosphates (as P ₂ O ₅)	IS 11224:1985 (Volumetric Method)
52.	Rock Phosphate	Silica (as SiO ₂)	IS 11224: 1985
53.	Rock Phosphate	Total Phosphates (as P ₂ O ₅)	IS 11224: 1985 (Gravimetric Method)



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & Alloys		
1.	Ferro Chromium (High Carbon)	Phosphorus as P	IS 13452: 2019
2.	Ferro Chromium (High Carbon)	Silicon (Si)	IS 13452: 2019
3.	Ferro Chromium (High Carbon)	Chromium as Cr	IS 13452: 2019
4.	Ferro Chromium (High Carbon)	Phosphorus	Chemical and Instrumental Analysis of Ores, Minerals, Ore Dressing Products and Environmental Samples, IBM: February 2012
5.	Ferro Manganese	Manganese (Mn)	ISO 4159: 1978
6.	Ferro Manganese	Carbon	ASTM E1915: 2020
7.	Ferro Manganese	Manganese (Mn)	IS 1559: 1961 Reaffirmed 2023
8.	Ferro Manganese	Phosphorus (P)	IS 1559: 1961 Reaffirmed 2023
9.	Ferro Manganese	Silicon (Si)	IS 1559: 1961 Reaffirmed 2023
10.	Ferro Manganese	Sulphur	ASTM E1019: 2024
11.	High Carbon Ferro Chrome	Carbon	ASTM E1915: 2020
12.	High Carbon Ferro Chrome	Sulphur	ASTM E1019: 2024
13.	Silico Manganese	Carbon	ASTM E1019: 2024
14.	Silico Manganese	Manganese (Mn)	IS 1559: 1961 Reaffirmed 2023
15.	Silico Manganese	Manganese (Mn)	ISO 4159: 1978
16.	Silico Manganese	Phosphorus (P)	IS 1559: 1961 Reaffirmed 2023

This is annexure to 'Certificate of Accreditation' and does not require any signature.

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Quality And Accreditation Institute Centre for International Accreditation

(formerly Centre for Laboratory Accreditation)



Scope of Accreditation

Cotecna Inspection India Private Limited

2nd Floor, C-5, Industrial Estate, G.K. Print House Building, Kapparada, Kancharapalem,
Visakhapatnam-530008, Andhra Pradesh, India

QAI/CIA/TL/2024/0040

Date of First Accreditation: 15 February 2024- 14 February 2026

Valid from: 15 February 2026

Valid until: 14 February 2028

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Metals & Alloys		
17.	Silico Manganese	Silicon (Si)	IS 1559: 1961 Reaffirmed 2023
18.	Silico Manganese	Sulphur	ASTM E1019: 2024

