

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

Valid from: 15 February 2024

Valid until: 14 February 2026

A handwritten signature in black ink, appearing to read 'Bhupendra'.

Dr. Bhupendra Kumar Rana
Chief Executive Officer

A handwritten signature in black ink, appearing to read 'Vikram'.

Prof. Vikram Kumar
Chair, CIA



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
1.	Coal	Total Moisture	IS 1350 (Part-1): 1984
2.	Coal	Moisture in analysis sample	IS 1350 (Part-1) - 1984: 2019
3.	Coal	Volatile matter	IS 1350 (Part-1) - 1984: 2019
4.	Coal	Ash	IS 1350 (Part-1) - 1984: 2019
5.	Coal	Fixed carbon	IS 1350 (Part-1) - 1984: 2019
6.	Coal	Gross calorific value	IS 1350 (Part-2): 2022
7.	Coal	Sulphur	IS 1350 (Part-3): 2022
8.	Coal	Phosphorus	IS 1350 (Part-5): 2017
9.	Coal	Crucible swelling number	IS 1353 (Part-1): 2018
10.	Coal	Total moisture	ASTM D 3302 / D 3302 M - 2022 a: 2022
11.	Coal	Moisture in Analysis Sample	ASTM D 3173 / 3173 M – 2017 a: 2017
12.	Coal	Volatile Matter	ASTM D 3175: 2020
13.	Coal	Ash	ASTM D 3174: 2012
14.	Coal	Fixed Carbon	ASTM D 3172: 2013
15.	Coal	Gross Calorific Value	ASTM D 5865 / D 5865 M: 2019
16.	Coal	Sulphur	ASTM D 4239 - 2018 e1: 2018
17.	Coal	Crucible Swelling Number	ASTM D 720 / D 720 M: 2022
18.	Coal	HGI	ASTM D 409 / 409 M: 2016
19.	Coal	AFT – Initial Deformation Temperature (IDT) Oxidising Atmosphere	ASTM D 1857 / D 1857 M: 2018
20.	Coal	AFT - Softening Temperature (ST) Oxidising Atmosphere	ASTM D 1857 / D 1857 M: 2018

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
21.	Coal	AFT - Hemispherical Temperature (HT) Oxidising Atmosphere	ASTM D 1857 / D 1857 M: 2018
22.	Coal	AFT - Flow Temperature (FT) Oxidising Atmosphere	ASTM D 1857 / D 1857 M: 2018
23.	Coal	AFT - Initial Deformation Temperature (IDT) Reducing Atmosphere	ASTM D 1857 / D 1857 M: 2018
24.	Coal	AFT - Softening Temperature (ST) Reducing Atmosphere	ASTM D 1857 / D 1857 M: 2018
25.	Coal	AFT - Hemispherical Temperature (HT) Reducing Atmosphere	ASTM D 1857 / D 1857 M: 2018
26.	Coal	AFT - Flow Temperature (FT) Reducing Atmosphere	ASTM D 1857 / D 1857 M: 2018
27.	Coal	Equilibrated Moisture at 60% RH @ 40 Deg C)	IS 1350 (P-1) - 1984: 2019
28.	Coal	Carbon As C	ASTM D 5373: 2021
29.	Coal	Hydrogen as H	ASTM D 5373: 2021
30.	Coal	Nitrogen as N	ASTM D 5373: 2021
31.	Coal	Oxygen as O	ASTM D 3176: 2015



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
32.	Coal	SiO ₂ in Coal Ash	Chemical and Instrumental Analysis of Ores, Minerals, Ore Dressing Products and Environmental Samples, IBM, February: 2012
33.	Coal	Al ₂ O ₃ in Coal Ash	Chemical and Instrumental Analysis of Ores, Minerals, Ore Dressing Products and Environmental Samples, IBM, February: 2012
34.	Coal	Fe ₂ O ₃ in Coal Ash	Chemical and Instrumental Analysis of Ores, Minerals, Ore Dressing Products and Environmental Samples, IBM, February: 2012
35.	Coal	CaO in Coal Ash	Chemical and Instrumental Analysis of Ores, Minerals, Ore Dressing Products and Environmental Samples, IBM, February: 2012
36.	Coal	MgO in Coal Ash	Chemical and Instrumental Analysis of Ores, Minerals, Ore Dressing Products and Environmental Samples, IBM, February: 2012
37.	Coal	Mn ₃ O ₄ in Coal Ash	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		
38.	Coal	Na ₂ O in Coal Ash	Chemical and Instrumental Analysis of Ores, Minerals, Ore Dressing Products and Environmental Samples, IBM, February: 2012
39.	Coal	K ₂ O in Coal Ash	Chemical and Instrumental Analysis of Ores, Minerals, Ore Dressing Products and Environmental Samples, IBM, February: 2012
40.	Coal	P ₂ O ₅ in Coal Ash	Chemical and Instrumental Analysis of Ores, Minerals, Ore Dressing Products and Environmental Samples, IBM, February: 2012
41.	Coal	SO ₃ in Coal Ash	Chemical and Instrumental Analysis of Ores, Minerals, Ore Dressing Products and Environmental Samples, IBM, February: 2012
42.	Coal	TiO ₂ in Coal Ash	Chemical and Instrumental Analysis of Ores, Minerals, Ore Dressing Products and Environmental Samples, IBM, February: 2012
43.	Coal	Total Moisture	ISO 589: 2008
44.	Coal	Moisture in Analysis Sample	ISO 11722: 2013
45.	Coal	Volatile Matter	ISO 562 - 2010 E: 2010
46.	Coal	Ash	ISO 1171: 2010
47.	Coal	Fixed Carbon	ISO 17246:2010

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
48.	Coal	Gross Calorific Value	ISO 1928: 2020
49.	Coal	Sulphur	ISO 334: 2020
50.	Coal	Net Calorific Value (NCV)	ASTM D 5865/D 5865 M: 2019
51.	Coal	Carbon (C)	ISO 29541: 2010
52.	Coal	Hydrogen (H)	ISO 29541: 2010
53.	Coal	Nitrogen (N)	ISO 29541: 2010
54.	Coal	Net Calorific Value (NCV)	ISO 29541: 2010
55.	Coal	Sulphur (S)	ISO 19579: 2006
56.	Coal	Ash Fusibility-Initial Deformation Temperature (IDT)-Reducing Atmosphere	ISO 540: 2008
57.	Coal	Ash Fusibility-Softening Temperature (ST)-Reducing atmosphere	ISO 540: 2008
58.	Coal	Ash Fusibility-Hemi Spherical Temperature (HT)-Reducing Atmosphere	ISO 540: 2008
59.	Coal	Ash Fusibility -Flow Temperature (FT)-Reducing atmosphere	ISO 540: 2008
60.	Coal	Ash Fusibility-Initial Deformation Temperature (IDT)-Oxidizing Atmosphere	ISO 540: 2008

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
61.	Coal	Ash Fusibility-Softening Temperature (ST)-Oxidizing Atmosphere	ISO 540: 2008
62.	Coal	Ash Fusibility -Hemi Spherical Temperature (HT)-Oxidizing Atmosphere	ISO 540: 2008
63.	Coal	Ash Fusibility -Flow Temperature (FT)-Oxidizing Atmosphere	ISO 540: 2008
64.	Coke	AFT – Initial Deformation Temperature (IDT) Oxidising Atmosphere	ASTM D 1857 / D 1857 M: 2018
65.	Coke	AFT - Softening Temperature (ST) Oxidising Atmosphere	ASTM D 1857 / D 1857 M: 2018
66.	Coke	AFT – Hemispherical Temperature (HT) Oxidising Atmosphere	ASTM D 1857 / D 1857 M: 2018
67.	Coke	AFT - Flow Temperature (FT) Oxidising Atmosphere	ASTM D 1857 / D 1857 M: 2018
68.	Coke	AFT - Initial Deformation Temperature (IDT) Reducing Atmosphere	ASTM D 1857 / D 1857 M: 2018
69.	Coke	AFT – Softening Temperature (ST) Reducing Atmosphere	ASTM D 1857 / D 1857 M: 2018

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
70.	Coke	AFT - Hemispherical Temperature (HT) Reducing Atmosphere	ASTM D 1857 / D 1857 M: 2018
71.	Coke	AFT – Flow Temperature (FT) Reducing Atmosphere	ASTM D 1857 / D 1857 M: 2018
72.	Coke	Total Moisture	IS 1350 (Part-1) - 1984: 2019
73.	Coke	Moisture in Analysis Sample	IS 1350 (Part-1) - 1984: 2019
74.	Coke	Volatile Matter	IS 1350 (Part-1) - 1984: 2019
75.	Coke	Ash	IS 1350 (Part-1) - 1984: 2019
76.	Coke	Fixed Carbon	IS 1350 (Part-1) - 1984: 2019
77.	Coke	Gross Calorific Value	IS 1350 (Part-2): 2022
78.	Coke	Sulphur	IS 1350 (Part-3): 2022
79.	Coke	Phosphorus	IS 1350 (Part-5): 2017
80.	Coke	Total Moisture	ASTM D 3302 / D 3302 M - 2022 a: 2022
81.	Coke	Moisture in Analysis Sample	ASTM D 3173 / 3173 M - 2017a: 2017
82.	Coke	Volatile Matter	ASTM D 3175: 2020
83.	Coke	Ash	ASTM D 3174: 2012
84.	Coke	Fixed Carbon	ASTM D 3172: 2013
85.	Coke	Gross Calorific Value	ASTM D 5865 / D 5865 M: 2019
86.	Coke	Sulphur	ASTM D 4239 - 2018 e1: 2018
87.	Coke	Carbon as C	ASTM D 5373: 2021

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
88.	Coke	Hydrogen as H	ASTM D 5373: 2021
89.	Coke	Nitrogen as N	ASTM D 5373: 2021
90.	Coke	Oxygen as O	ASTM D 3176: 2015
91.	Coke	Net Calorific Value (NCV)	ASTM D 5865/D 5865 M: 2019

