

Quality And Accreditation Institute

Centre for International Accreditation



Certificate of Accreditation

PT Mitra Singapore Analisis

Jl. Padat Karya No.99, Sempaja Utara, Kecamatan Samarinda Utara, Kota Samarinda, Kalimantan Timur, Indonesia

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 with the above standard
& any other requirements specified by QAI.*



QAI/CIA/TL/2026/0182

Valid from: 08 Aug 2026

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

Dr. Bhupendra Kumar Rana
Chief Executive Officer

Valid until: 07 Aug 2028

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

Prof. Vikram Kumar
Chair, CIA



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Valid from: 08 Aug 2026

Valid until: 07 Aug 2028

Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
1.	Coal	Total Moisture	ASTM D3302 / D3302M -22a
2.	Coal	Total Moisture	ISO 589: 2008
3.	Coal	Moisture	ASTM D3173 / D3173M-25
4.	Coal	Moisture	ISO 11722:2013
5.	Coal	Volatile Matter (VM)	ASTM D3175-26
6.	Coal	Volatile Matter (VM)	ISO 562:2024
7.	Coal	Fixed Carbon (FC)	ASTM D 3172-13(2021) e1
8.	Coal	Fixed Carbon (FC)	ISO 17246: 2024
9.	Coal	Ash	ASTM D3174- 12(2018) e1
10.	Coal	Ash	ISO 1171:2024
11.	Coal	Gross Calorific Value (GCV)	ISO 1928:2025
12.	Coal	Gross Calorific Value (GCV)	ASTM D5865/D5865M-19



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
13.	Coal	Net Calorific Value (ADB)	ASTM D5865/D5865M-19
14.	Coal	Net Calorific Value (ADB)	ISO 1928:2025
15.	Coal	Net Calorific Value (ARB)	ASTM D5865/D5865M-19
16.	Coal	Net Calorific Value (ARB)	ISO 1928:2025
17.	Coal	Net Calorific Value (DB)	ASTM D5865/D5865M-19
18.	Coal	Net Calorific Value (DB)	ISO 1928:2025
19.	Coal	Hardgrove Grindability Index (HGI)	ISO 5074:2015
20.	Coal	Hardgrove Grindability Index (HGI)	ASTM D409 / D409M -24
21.	Coal	Carbon (C)	ASTM D5373 -21
22.	Coal	Carbon (C)	ISO 29541:2025
23.	Coal	Hydrogen (H)	ASTM D5373- 21
24.	Coal	Hydrogen (H)	ISO 29541:2025



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
25.	Coal	Nitrogen (N)	ASTM D5373- 21
26.	Coal	Nitrogen (N)	ISO 29541:2025
27.	Coal	Oxygen (O)	ISO 1170: 2020
28.	Coal	Oxygen(O)	ASTM D3176-24
29.	Coal	Sulphur (S)	ASTM D4239 -26 Method A
30.	Coal	Sulphur (S)	ISO 19579:2006
31.	Coal	IT (Initial Deformation Temperature)	ASTM D1857 / D1857M - 24 (Reducing)
32.	Coal	IT (Initial Deformation Temperature)	ASTM D1857 / D1857M- 24 (Oxidizing)
33.	Coal	IT (Initial Deformation Temperature)	ISO 540:2025(Reducing)
34.	Coal	IT (Initial Deformation Temperature)	ISO 540:2025(Oxidizing)
35.	Coal	ST (Spherical Temperature)	ASTM D1857 / D1857M – 24 (Reducing)
36.	Coal	ST (Spherical Temperature)	ASTM D1857 / D1857M – 24 (Oxidizing)

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

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
37.	Coal	ST (Spherical Temperature)	ISO 540:2025 (Reducing)
38.	Coal	ST (Spherical Temperature)	ISO 540:2025 (Oxidizing)
39.	Coal	HT (Hemispherical Temperature)	ASTM D1857 / D1857M – 24 (Reducing)
40.	Coal	HT (Hemispherical Temperature)	ASTM D1857 / D1857M – 24 (Oxidizing)
41.	Coal	HT (Hemispherical Temperature)	ISO 540:2025(Reducing)
42.	Coal	HT (Hemispherical Temperature)	ISO 540:2025(Oxidizing)
43.	Coal	FT (Fluidity Temperature)	ASTM D1857 / D1857M -24 (Reducing)
44.	Coal	FT (Fluidity Temperature)	ASTM D1857 / D1857M – 24 (Oxidizing)
45.	Coal	FT (Fluidity Temperature)	ISO 540:2025 (Reducing)
46.	Coal	FT (Fluidity Temperature)	ISO 540:2025(Oxidizing)
47.	Coal	Coal Sampling	ASTM D2234/D2234M-20
48.	Coal	Coal Sampling	ASTM D6883/D6883M-25
49.	Coal	Coal Sampling	ISO 18283: 2022



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
	Solid Fuels		
50.	Coal	Coal Sample Preparation for Analysis	ASTM D2013/D2013M-24
51.	Coal	Coal Sample Preparation for Analysis	ISO 13909-4:2025

