

Quality And Accreditation Institute

Centre for Laboratory Accreditation



Certificate of Accreditation

Mitra S. K. Private Limited

Plot No.-178A, Zone B, Mancheswar Industrial Estate,
Bhubaneswar-751010, Odisha, 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/CLA/TL/2023/0013

Valid from: 12 July 2023

Valid until: 11 July 2025

Dr. Bhupendra Kumar Rana
Chief Executive Officer

Prof. Vikram Kumar
Chair, CLA



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Accreditation Standard: ISO/IEC 17025:2017

Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
1.	Iron Ore (Lumps/ Fines/ Pellets)	Silica	IS 1493 Part 1: 1981 RA 2021 ISO 2598-1: 1992
		Total Iron	IS 1493 Part 1: 1981 RA 2021 ISO 2597-1: 2006
		Ferrous Iron	ISO 9035: 1989 RC 2017
		Alumina	IS 1493 Part 1: 1981 RA 2021
		Phosphorus	IS 1493 Part 1: 1981 RA 2021 Indian Bureau of Mines. Procedure Manual-2012
		Sulphur	ASTM E1915-20
		Manganese	IS 1493: 1959 RA 2021
		Loss on Ignition	ISO 11536:2015 RC 2022
		Total Moisture	IS 1493 Part 1: 1981 RA 2021 IS 11690:1986 RA 2019
		Transportable Moisture limit & Flow Moisture Point	IMSBC Code (Appendix 2) 2022 (Flow table method)
		TML (Transportable Moisture Limit)	IMSBC Code-2022, Appendix 2, (Modified Proctor Fagerber Method)
		Angle of Repose	IMSBC Code-2022, Appendix 2
		Crushing Strength Testing	ISO 4700: 2015 RC 2021 IS 8625: 1986 RA 2019
		2.	Manganese Ore
Manganese	IS 1473: 2004 RA 2021		



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
			ISO 4298: 2022 (By Potentiometric method)
		Manganese Dioxide	IS 1473: 2004 RA 2021
		Iron	IS 1473: 2004 RA 2021
		Alumina	IS 1473: 2004 RA 2021
		Sulphur	ASTM E1915-20
		Phosphorus	IS 1473: 2004 RA 2021 Indian Bureau of Mines Procedure Manual-2012
		Total Moisture	IS 1449: 2010 RA 2021 & IS 1473: 2004 RA 2021
		Transportable Moisture limit & flow Moisture Point	IMSBC Code (Appendix 2) 2022 (Flow table method)
3.	Chromite Ore/ Chrome Concentrate	Silica	IS 4737: 1982 RA 2021
		Chromium Oxide	IS 4737: 1982 RA 2021
		Total Iron	IS 4737: 1982 RA 2021
		Alumina	IS 4737: 1982 RA 2021 SOP-TPM/MSK/3/D/1 (Issue No 01, Dated 01.04.2015)
		Calcium Oxide	IS 4737: 1982 RA 2021
		Magnesium Oxide	IS 4737: 1982 RA 2021
		Phosphorus	Indian Bureau of Mines -2012 IS 5305: 1969 RA 2020
		Sulphur	ASTM E1915-20



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
		Total Moisture	IS 8562: 1977 RA 2022 & IS 4737: 1982 RA 2021
		Transportable Moisture limit & flow Moisture Point	IMSBC Code (Appendix 2) 2022 (Flow table method)
		TML (Transportable Moisture Limit)	IMSBC Code-2022, Appendix 2, (Proctor Fagerberg Method)
4.	Bauxite	Loss on ignition	IS 2000 Part-1: 1985 RA 2022
		Silica	IS 2000 Part-2: 1985 RA 2022
		Alumina	IS 2000 Part-3: 1985 RA 2022
		Ferric Oxide	IS 2000 Part-4: 1985 RA 2022
		Titanium Oxide	IS 2000 Part-5: 1985 RA 2022
5.	Limestone	Loss on ignition	IS 1760 Part -1: 1991 RA 2022
		Silica	IS 1760 Part -2: 1991 RA 2022
		Ferric Oxide	SOP: TPM/MSK/5/C3 (Issue No:1 Dated 22.09.2012)
		Alumina	IS 1760 Part-3:1992 RA 2022
		Calcium Oxide	IS 1760 Part-3:1992 RA 2022
		Magnesium Oxide	IS 1760 Part-3:1992 RA 2022
		Sodium Oxide	IS 9497: 1980 RA 2020
		Potassium Oxide	IS 9497: 1980 RA 2020
6.	Dolomite	Loss on ignition	IS 1760 Part -1:1991 RA 2022
		Silica	IS 1760 Part -2: 1991 RA 2022
		Ferric Oxide	SOP: TPM/MSK/5/C3 (Issue No:1 Dated 22.09.2012)
		Alumina	IS 1760 Part-3:1992 RA 2022

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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
7.	Gypsum	Calcium Oxide	IS 1760 Part-3:1992 RA 2022
		Magnesium Oxide	IS 1760 Part-3:1992 RA 2022
		Sodium Oxide	IS 9497: 1980 RA 2020
		Potassium Oxide	IS 9497: 1980 RA 2020
		Free water	ASTM C471M-20ae1
			IS 1288: 1982 RA 2021
		Combined water	ASTM C471M-20ae1
			IS 1288: 1982 RA 2021
		Silica (SiO ₂) and Acid Insoluble	ASTM C471M-20ae1
			IS 1288: 1982 RA 2021
		Calcium Oxide	ASTM C471M-20ae1
			IS 1288: 1982 RA 2021
		Magnesium Oxide	ASTM C471M-20ae1
			IS 1288: 1982 RA 2021
Sulphur Trioxide	ASTM C471M-20ae1		
	IS 1288: 1982 RA 2021		
Calcium Sulfate Dihydrate	ASTM C471M-20ae1		
	IS 1288: 1982 RA 2021		
Mixed Oxide (Ferric Oxide +Alumina)	ASTM C471M-20ae1		
	IS 1288: 1982 RA 2021		
Purity	ASTM C471M-20ae1		
8.	Copper Ore & Copper Concentrate	Total Moisture	ISO 10251: 2006 RC 2020
		Transportable Moisture limit & flow Moisture Point	IMSBC Code (Appendix 2) 2022 (Flow table method)



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
		Transportable Moisture limit & flow Moisture Point	ISO 12742: 2020
9.	Zinc Ore & Zinc Concentrate	Total Moisture	ISO 10251: 2006 RC 2020
		Transportable Moisture limit & flow Moisture Point	IMSBC Code (Appendix 2) 2022 (Flow table method)
		Transportable Moisture limit & flow Moisture Point	ISO 12742: 2020
10.	Coal	Total Moisture	IS 1350 Part-1: 1984 RA 2019
			ISO 589: 2008 RC 2018
			ASTM D 3302/D 3302M-22a
		Equilibrate Moisture	IS 1350 Part-1: 1984 RA 2019
			Moisture
		Volatile Matter (Different Basis & Equilibrate Basis)	ISO 11722: 2013 RC 2018
			ASTM D3173 / D3173M-17a
			IS 1350 Part-1: 1984 RA 2019
		Ash (Different Basis & Equilibrate Basis)	ISO 562: 2010 RC 2021
			ASTM D 3175 -20
			IS 1350 Part-1: 1984 RA 2019
		Fixed Carbon (By Difference)	ISO 1171: 2010 RC 2021
			ASTM D 3174-12(2018) e1
ISO 1350 Part-1: 1984 RA 2019			
Sulphur	ISO 17246: 2010 RC 2021		
	ASTM D 3172-13(2021) e1		
	IS 1350 Part-3: 2022		



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Chemical Testing			
Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
			ISO 334: 2020
		Phosphorus	IS 1350: Part - 5 RA 2017
		Gross Calorific Value (Different Basis)	IS 1350 Part-2: 2022
			ISO 1928: 2020
			ASTM D 5865/ D5865M-19
		TML (Transportable Moisture Limit)	IMSBC Code (Appendix 2) 2022 (Modified Proctor Fagerberg Method)
		Total Moisture	IS 1350 Part-1: 1984 RA.2019
			ISO 579: 2013 RC 2018
		Moisture	IS 1350 Part 1:1984RA.2019
			ISO 687: 2010 RC 2021
			ASTM D3173 / D3173M-17a
		Volatile Matter (Different Basis)	IS 1350 Part-1: 1984 RA.2019
			ISO 562: 2010 RC 2021
			ASTM D 3175 -20
		Ash (Different Basis)	IS 1350 Part-1:1984 RA.2019
			ISO 1171: 2010 RC 2021
			ASTM D 3174 -12(2018) e1
		Fixed Carbon (By Difference)	IS 1350 Part-1:1984 RA.2019
			ISO 17246: 2010 RC 2021
			ASTM D 3172 -13(2021) e1
		Sulphur	IS 1350 Part 3: 2022
			ISO 334: 2020
		Phosphorus	IS 1350 Part - 5 RA 2017
11.	Coke		

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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
		Gross Calorific Value (Different Basis)	IS 1350 Part 2: 2022 ISO 1928:2020 ASTM D 5865/ D5865M-19
12.	High Carbon Ferro Chrome	Silicon	IS 13452: 2019
		Chromium	IS 13452: 2019 ISO 4140: 1979 RC 2022
		Phosphorus	IS 13452: 2019 SOP: TPM/MSK/8/C (Issue No .02 dated 01.04.2015)
		Carbon	ISO 15350:2000 RC 2018
		Sulphur	ISO 15350:2000 RC 2018
		Manganese	IS 1559 Part 7:1982 RA 2018
13.	Ferro Manganese	Silicon	IS 1559:1961 RA 2018
		Manganese	IS 1559:1961 RA 2018 ISO 4159:1978 RC 2020
		Phosphorus	IS 1559:1961 RA 2018
		Carbon	ISO 15350:2000 RC 2018
		Sulphur	ISO 15350:2000 RC 2018
14.	Silico Manganese	Silicon	IS 1559:1961 RA 2018 ISO 4158: 1978 RC 2020
		Manganese	IS 1559:1961 RA 2018 ISO 4159:1978 RC 2020
		Phosphorus	IS 1559:1961 RA 2018
		Carbon	ISO 15350:2000 RC 2018



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Sl. No.	Product(s)/Material of Test	Specific Tests Performed	Test Method
		Sulphur	ISO 15350:2000 RC 2018
		Silicon	IS 12308 Part-6:1991 RA 2018
15.	Pig Iron/ Cast Iron	Manganese	IS12308 Part -10:1991 RA 2018
		Phosphorus	IS12308 Part -5:1991 RA 2018
		Carbon	ISO 15350: 2000 RC 2018
		Sulphur	ISO 15350: 2000 RC 2018

