

**ANNEXURE A**  
**SCHEDULE OF ACCREDITATION**

Facility Number: **T0658**

**Permanent Address of Laboratory:**

Mitra SK South Africa (Pty) Ltd  
81 Ceramic Curve Alton  
Richardsbay Unit  
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**Technical Signatories:**

Mr SP Sharma (Mn Ore, Ferrochrome and Chrome Manganese ore, Coal, Fe-ore)  
Mr MW Zakwe (Coal, Cr-ore, Fe-Cr)  
Ms NF Mthenmbu (Fe-Ore, CTFe & SiO<sub>2</sub>)  
Mr J Hlophe (Total Moisture & TML/FMP)  
Mr S Xulu (Total Moisture & TML/FMP)

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Material or Products Tested	Type of Tests / Properties Measured, Range of Measurement	Standard Specifications, Techniques / Equipment Used
<b>CHEMICAL</b>		
Manganese Ore	Determination of Gravimetric Method, Silica (4.37 % -17.32%)	MSK/SOP/Si/001 (Based on ISO 5890:1981)
	Determination of Potention Method, Total Manganese (30.98% -49.15%)	MSK/SOP/TMn/001 (Based in ISO 4298:2022)
	Determination of Titrimetric Method, Total Iron 4.27% -15.6%	MSK/SOP/TFe/001 (Based on ISO 7990:1985)
	Determination of Flame atomic absorption spectrometric method, Alumina 0.239% -6.402%	MSK/SOP/Al/001 (Based on ISO 5889:1983)
	Determination of Flame atomic absorption spectrometric method, motion of Calcium Oxide 1.148% - 5.726%	MSK/SOP/MOCO/001 (Based on 7953:1985)
	Determination of Flame atomic absorption spectrometric method, Magnesium Oxide 0.696% -3.02%	MSK/SOP/MOCO/001 (Based on 7953:1985)

	Determination of Photometric method, Phosphorous 0.0178% - 0.031%	MSK/SOP/PC/001 (Based on ISO 4293:1982)
Cr-Ore	Chromium ores and concentrates- Determination of chromium content- Titrimetric method ,Cr2O3 26.66% - 41.86 %	MSK/SOP/CR-ORE-Cr203/001 (Based on ISO 6331:2024)
	Determination of chromium content - Titrimetric method Chromium ores and concentrates-Fe 16.02% -21.45%	MSK/SOP/CR-ORE-Fe/001 (Based on ISO 6130:1983)
	Titrimetric Method Iron Oxide	MSK/SOP/CR-ORE-Fe/001 (Based on ISO 6130:1985)
	Chromium ores and concentrates- Determination of silicon content- Molecular absorption spectrometric method and gravimetric method SiO2 3.09%-20.45%	MSK/SOP/CR-ORE-SiO2/001 (Based on ISO 5997:1984)
Fe-Cr	Ferrochromium and ferrosilicochromium- Determination of chromium content- Potentiometric method Cr 47.79% -50.27%	MSK/SOP/FC-Cr/001 (Based on 4140:1979)
	Ferrosilicon, ferrosilicomanganese and ferrosilicochromium- Determination of silicon content- Gravimetric method Si 2.013% - 5.31%	MSK/SOP/FC-Si/001 (Based on ISO 4158:1978)
	Determination of Total Carbon and Sulphur content-infrared -Absorption (Carbon 6.18%-8.39% and Sulphur 0.0183%-0.6305)	MSK/SOP/FC-CS/002 (Based on ISO 15350:2000)
Fe-ore	Determination of Silica content by Gravimetric method in Iron Ore and Magnetite Silica (3,55%-7.8 %)	MSK/SOP/IO-SiO2/001 (Based on ISO 2598-1:1992)
	Determination of total Iron by Titrimetric method in Iron ore and Magnetite (Iron 52.54%-66.43%)	MSK/SOP/T0-TFe/001 (Based on ISO 2597-:2006)

Fe-Ore/Magnetite	Determination of Moisture content in Iron Ore/Magnetite	MSK/SOP/MA-Fe/001 (Based on ISO 3087:2020)
	Determination of Transportable Moisture Limit (TMC) by Flow Table Test Method	MSP/SOP/TML-FMP/001 (Based on IMSBC code-Appendix 2)
Coal/ Coke	Determination of Moisture content of coal sample intended for general analysis (air oven method), Moisture content of coal (air oven method) 1% -5%	MSK/SOP/MA/001(Based on SANS 5925:2007)
	Determination of Test method for single stage moisture), Test method of total Moisture of Coal 1% -15%	MSK/SOP/TM/001 (Based on ASTM D 2961-19)
	Determination of Test method Volatile matter in analysis sample of Coal and Coke, Volatile Matter 5% - 30 %	MSK/SOP/VMA/001(Based on ISO 562:2024)
	Determination of Test method for Ash in the analysis sample of Coal and Coke, Ash 10% -30 %	MSK/SOP/AA/001 (Based on ISO 1171:2024)
	Determination of Standard Practice for Proximate analysis of Coal and Coke, Fixed Carbon	MSK/SOP/FC/001 (Based on ASTM D3172-13(2021)E1
	Determination of test methods for GCV, Coal and Coke 3554-7254 Kcal/kg	MSK/SOP/LECO AC500/001 (Based on ASTM D5865-19)
	Determination of Standard test method for sulphur in the analysis sample of Coal and coke, using high temperature tube furnace combustion, Total Sulphur 0.2%-3 %	MSK/SOP/LECOTS/001 (Based on ASTM 4239-18e1)

Original Date of Accreditation: 29 October 2015

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Accreditation Manager