


**NO: SAMM 814**(Issue 3, 29 July 2024 replacement  
of SAMM 814 dated 29 July 2024)

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<b>LABORATORY LOCATION/ CENTRAL OFFICE:</b>	Natural Resources On Site Sakura Laboratory, SGS (Malaysia) Sdn. Bhd., Bintulu Lot 107, Block 1, Kemena Lan District Samalaju Industrial Park, P.O. Box 1500, 97000 Bintulu, Sarawak , 97000, SARAWAK MALAYSIA
	
<b>ACCREDITED SINCE :</b>	29 JULY 2024
<b>FIELD(S) OF TESTING:</b>	CHEMICAL

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

<b>CENTRAL LOCATION:</b>	Natural Resources On Site Sakura Laboratory, SGS (Malaysia) Sdn. Bhd., Bintulu Lot 107, Block 1, Kemena Lan District Samalaju Industrial Park, P.O. Box 1500, 97000 Bintulu, Sarawak , 97000, Sarawak
<b>FIELD(S) OF TESTING :</b>	CHEMICAL,

**SCOPE OF TESTING : CHEMICAL**

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Manganese Ores And Slag	Manganese, Mn	In-house method, SGS-MINE-BTU- SOP-10: Procedure for Determination
	Manganese, Mn	of Mn in Manganese Ores/Slag by Potentiometric Method based on
	Manganese, Mn	1S04298:1984, ASTM E248 and E200
Ferromanganese	Iron (Fe)	In house method, SGS-MINE-BTU- SOP-03, Determination of Fe in Ferromanganese by Titration with Dichromate based on ISO 7528 : 1989

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
High Carbon Ferromanganese	Manganese %	ISO 4159 ? Ferromanganese and ferrosilicomanganese ? Determination of Manganese content by Potentiometric Method
	Carbon %	ISO 15350 ? Steel and Iron ? Determination of total Carbon and Sulphur content by Infrared absorption method after combustion in an induction furnace. (Routine Method)
	Sulphur %	ISO 15350 ? Steel and Iron ? Determination of total Carbon and Sulphur content by Infrared absorption method after combustion in an induction furnace. (Routine Method)
	Boron %	In house method, SGS-MINE-BTU- SOP-12: Determination of Boron, Phosphorus and Silica in Ferroalloy and Manganese Ores by Sodium Peroxide Fusion and analysis by ICPMS and ICPOES based on IMS90A
	Phosphorus %	In house method, SGS-MINE-BTU- SOP-12: Determination of Boron, Phosphorus and Silica in Ferroalloy and Manganese Ores by Sodium Peroxide Fusion and analysis by ICPMS and ICPOES based on IMS90A
	Silica (Si)	In house method, SGS-MINE-SOP-12, Determination of Boron, Phosphorus and Silica in FerroAlloy and Manganese Ores by Sodium Peroxide Fusion and analysis by ICP (MS and OES) based on IMS90A

## Schedule

Issue date: 29 July 2024  
Valid Until: 29 July 2029



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