



MS ISO/IEC 17025

Certificate of Accreditation

No: SAMM 313

Valid until: 29 November 2017

This is to certify that

**MATERIALS INTEGRITY AND ANALYSIS SECTION (MIAS)
SIRIM STANDARDS TECHNOLOGY SDN. BHD
SHAH ALAM, SELANGOR
MALAYSIA
(FIELDS OF TESTING: NON-DESTRUCTIVE TEST & MECHANICAL)**

has been granted accreditation in respect of the scope of accreditation described in the SCHEDULE attached, subject to the terms and conditions governing the *Skim Akreditasi Makmal Malaysia (SAMM)*, the Laboratory Accreditation Scheme of Malaysia.

"This laboratory is accredited in accordance with the recognised International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer joint ISO-ILAC-IAF Communiqué dated January 2009)".

Issuance of this certificate is governed by Section 16 Subsection (2) and (3) of Standards of Malaysia Act 1996, (Act 549).



(DATUK FADILAH BAHARIN)
Director General
Department of Standards Malaysia

Date of Issue: 17 December 2014

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LABORATORY LOCATION:
(PERMANENT LABORATORY)

**MATERIALS INTEGRITY AND ANALYSIS SECTION (MIAS)
SIRIM STANDARDS TECHNOLOGY SDN. BHD.
NO. 1, PERSIARAN DATO' MENTERI
BANGUNAN 20, SIRIM COMPLEX
P. O. BOX 7035, SECTION 2
40911 SHAH ALAM, SELANGOR
MALAYSIA**

This laboratory accredited under *Skim Akreditasi Makmal Malaysia (SAMM)* meets the requirements of MS ISO/IEC 17025:2005 'General requirements for competence of testing and calibration laboratories'. This Malaysian Standards is identical with ISO/IEC 17025:2005 published by the International Organization for Standardization (ISO).

FIELD OF TESTING: NON-DESTRUCTIVE TEST

SCOPE OF ACCREDITATION:

Materials/ Products tested	Type of test/ Properties measured/ Range of measurement	Standard Test Methods/ Equipment/Techniques
Metals	Radiographic inspection of welded sample using x-rays & γ -rays	ASME Boiler & Pressure Vessel Section V: Article 2 (2013)
	Ultrasonic inspection of welded sample	ASME Boiler & Pressure Vessel Section V: Article 4 & 5 (2013)
		BS EN 17640: 2010

Signatories:

1. Mohd Aris Fathillah bin Salleh
2. Ang Chee Kheong
3. Suri bin Taib



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FIELD OF TESTING: MECHANICAL**SCOPE OF ACCREDITATION:**

Materials/ Products tested	Type of test/ Properties measured/ Range of measurement	Standard Test Methods/ Equipment/Techniques
<u>Physical Testing</u> Ferrous and Non-ferrous materials	Microindentation Hardness Test Test Force: 5 gf to 500 gf	ASTM E384: 2011
	Macroindentation Hardness Test Test Force: 1 kgf to 50 kgf	ASTM E384: 2011
<u>Metallurgical Testing</u> Ferrous and Non-ferrous materials <ul style="list-style-type: none"> - low alloy steels - stainless steels - copper alloys - nickel alloys 	Elemental Analysis (Positive Material Identification)	In house Test Method SST-MIAS-F1-2b adopted from OEM. (Portable spectrometer)
Ferrous and Non-ferrous materials <ul style="list-style-type: none"> - stainless steels - copper alloys - cobalt alloys 	Elemental Analysis (Positive Material Identification)	In house Test Method SST-MIAS-F1-2c adopted from OEM. (X-ray Fluorescent Method)

Signatories:

1. Dr. Hasnah Abdul Wahab
2. Azman Said
3. Dr. Samsiah Sulaiman