



# CERTIFICATE OF ACCREDITATION

*This is to attest that*

## **FUGRO TECHNICAL SERVICES LIMITED**

5 LOK YI STREET  
TUEN MUN, HONG KONG SAR

**Testing Laboratory TL-956**

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date May 8, 2023



A handwritten signature in black ink, reading "Raj Nathan".

**President**

# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | [www.iasonline.org](http://www.iasonline.org)

## FUGRO TECHNICAL SERVICES LIMITED

[www.fugro.com](http://www.fugro.com)

**Contact Name** Joseph Poon

**Contact Phone** +852 2452 7140

*Accredited to ISO/IEC 17025:2017*

*Effective Date May 8, 2023*

<b>Physical</b>	
ASME Section V 2021, Article 2	Radiographic Examination
ASME Section V 2021, Article 4	Phased Array Ultrasonic Examination
ASME Section V 2021, Article 4 & 5	Ultrasonic Examination
ASME Section V 2021, Article 6	Liquid Penetrant Examination
ASME Section V 2021, Article 7	Magnetic Particle Examination
ASME Section V 2021, Article 8	Eddy Current Examination
ASME Section V 2021, Article 9	Visual Examination
ASTM C1153	Standard Practice for Location of Wet Insulation in Roofing Systems using Infrared Imaging
AWS D1.1/D1.1M:2020, Clause 8.9 of	Visual Inspection
AWS D1.1/D1.1M:2020, Clause 8.10 & 8.14.4	Magnetic Particle Testing
AWS D1.1/D1.1M:2020, Clause 8.10 & 8.14.5	Penetrant Testing
AWS D1.1/D1.1M:2020, Part E & Clause 8.12	Radiographic Testing
AWS D1.1/D1.1M:2020, Part F & Clause 8.13	Ultrasonic Testing
BS EN 571-1:1997	Liquid Penetrant Test
BS EN 970:1997	Visual Examination

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BS EN 1290:1998	Magnetic Particle Testing
BS EN 1435:1997 (Amd. 14938)	Radiographic Examination
BS EN 1714:1998 (Amd. 14941)	Ultrasonic Testing
BS EN 660-1:1999	Resilient Floor Coverings – Determination of Wear Resistance – Stuttgart Test
BS EN 662:1995	Resilient Floor Coverings – Determination of Curling on Exposure to Moisture
BS EN ISO 3452-1:2013	Liquid Penetrant Test
BS EN ISO 3452-1:2021	Liquid Penetrant Test
BS EN ISO 9934-1:2016	Magnetic Particle Testing
BS EN ISO 17636-1:2013	Radiographic Examination
BS EN ISO 17637:2011	Visual Examination
BS EN ISO 17637:2016	Visual Examination
BS EN ISO 17638:2009	Magnetic Particle Testing
BS EN ISO 17638:2017	Magnetic Particle Testing
BS EN ISO 17640:2010	Ultrasonic Testing
BS EN ISO 17640:2018	Ultrasonic Testing
BS EN ISO 17643:2015	Eddy Current Examination
BS EN ISO 19285:2017	Phased Array Ultrasonic Testing
<b>Chemical, Environmental and Microbiological</b>	
APHA 23rd edition 2310 B	Water and Wastewater - Total Acidity
APHA 23rd edition 2340 C	Water and Wastewater - Hardness (EDTA Titrimetric Method)
APHA 23rd edition 2540 B & E	Water and Wastewater - Volatile Solids Ignited at 550°C (Organic Matter)
APHA 23rd edition 2540 E	Water and Wastewater - Fixed Solids Ignited at 550°C
APHA 23rd edition 2540 G	Sediment and Sludge - Fixed Solids in Solid and Semisolid Samples
APHA 23rd edition 2540 G	Sediment and Sludge - Total Solids in Solid and Semisolid Samples
APHA 23rd edition 2540 G	Sediment and Sludge - Volatile Solids in Solid and Semisolid Samples
APHA 23rd edition 4500 - CN: C & D	Water and Wastewater - Cyanide Content (Titrimetric Method)

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APHA 23rd edition 4500 - CN- C & E	Water and Wastewater - Cyanide Content (Colorimetric Method)
APHA 23rd edition 4500 - SiO <sub>2</sub> D	Water and Wastewater - Silica Content
APHA 23rd edition 4500 - SO <sub>4</sub> <sup>2-</sup> E	Water and Wastewater - Sulfate Content
APHA 23rd edition 4500 - S <sup>2-</sup> D	Water and Wastewater - Sulfide Content
APHA 23rd edition 5220 B	Water and Wastewater - Settled Chemical Oxygen Demand
APHA 23rd edition 5310 B	Water and Wastewater - Total Organic Carbon (TOC) Content
APHA 23rd edition 5530 D	Water and Wastewater - Phenols Content
APHA 23rd edition 10200 H2 & H3	Water and Wastewater - Chlorophyll a Content (Fluorometric Method)
AS/NZS 4020:2005 Appendix H	Analysis of Products for Use in Contact with Drinking Water - Extraction of Metals According to AS/NZS 4020:2005-Appendix H (Sb, Cd, Cr, Cu, Pb, Ni)
AS/NZS 4020:2005 Appendix I	Testing of Products for Use in Contact with Drinking Water - Extraction of Metals (For End-of-Line Fittings) (AS/NZS 4020:2005 Appendix I)
ASTM D7220	Determination of Sulfur Content in Ultra Low Sulfur Diesel
BS 5980 Appendix B	Determination of Resistance to Mould Growth on Skim Coat, Tile Adhesives and Tile Grout (BS 5980: 1980 Appendix B. HKHA Specification Library (2014) FIN7.M790.7 and FIN5 M1010.7)
BS EN 13263-1:2005 + A1:2009 Cl.5.2.1	Silica Fume - Silicon Dioxide Content (SiO <sub>2</sub> )
BS EN 13263-1:2005 + A1:2009 Cl.5.2.3	Silica Fume - Free Calcium Oxide Content
BS EN 13263-1:2005 + A1:2009 Cl.5.2.4	Silica Fume - Sulphate Content (as SO <sub>3</sub> )
BS EN 13263-1:2005 + A1:2009 Cl.5.2.5	Silica Fume - Total Alkali Content
BS EN 13263-1:2005 + A1:2009 Cl.5.2.6	Silica Fume - Chloride content
BS EN 13263-1:2005 + A1:2009 Cl.5.2.7	Silica Fume - Loss on Ignition (LOI)
BS EN 15167-1:2006	GGBS - Chloride Content
BS EN 15167-1:2006	GGBS - Loss on Ignition

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BS EN 15167-1:2006	GGBS - Sulphate Content
BS EN 15167-1:2006	GGBS - Sulphide Content
BS EN 15167-1:2006 Cl.5.2	GGBS - Magnesium Oxide
BS EN 15167-1:2006 Annex A	GGBS - Moisture Content
BS EN 450-1:2012 Cl.5.2.8	PFA - Aluminium Oxide
BS EN 450-1:2012 Cl.5.2.8	PFA - Iron Oxide
BS EN 450-1:2012 Cl.5.2.8	PFA - Silicon Dioxide
BS EN ISO 10693:2014	Soil quality - Determination of Carbonate Content (Volumetric Method)
Environmental Microbiology Laboratory TM09/EC/10/98 Issue 3 Environmental Protection Department, HKSAR	Enumeration of <i>E. coli</i> in water by Membrane Filtration Technique and Chromogenic Medium
GB 18582:2008 Appendix C	Chemical Analysis of Paints and Varnishes - Determination of Free Formaldehyde Content
GB 18582:2008 Appendix D	Chemical Analysis of Paints and Varnishes - Determination of Soluble Metal - Lead, Cadmium, Chromium and Mercury
HKHA-FIN7-APPEND1	Accelerated Tests for Resistance to Fungal and Algal Growth of Paints - HKHA MTS (2018/2020) Specification Part D Cl. 7.1 & 7.5 (Hong Kong Housing Authority Specification Library (SL) 2014 Ed, FIN7 APPENDIX FIN7/I: Accelerated Tests for Resistance to Fungal and Algal Growth of Paint)
HKHA-FIN7-M370-7	Determination of Algal Resistance on Anti-Mould External Emulsion Paint - HKHA MTS (2018/2020) Specification Part D Cl. 7.2 (Hong Kong Housing Authority Specification Library (SL) 2014 Ed., FIN7 M370.7: Determination of Algal Resistance)
ISO 9227	Corrosion Tests in Artificial Atmospheres - Salt Spray Tests
SCAQMD Method 303-91 and ISO11890-2:2000	Exempted Compounds of Volatile Organic Compounds for Architecture Paint
Spark-OES Method	Spark Discharge in Argon Optical Emission Spectrometric Analysis of Stainless Steel - C, S, P, Si, N, Cu, Mn, Ni, Cr and Mo Content
US EPA Method 24	Analysis of Paint, Varnish or Related Product - Volatile Organic Compound (VOC) Content

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