

ACCREDITATION SCHEME FOR INSPECTION BODIES



Schedule

CAST Laboratories Pte Ltd
17 Tuas Ave 8
Singapore 639232

Certificate No. : IB-2017-159-F
Issue No. : 7
Date : 03 November 2023
Expiry Date : 27 August 2025
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Inspection Field : Site Investigation
and Instrumentation & Monitoring

Type A Inspection Body

TYPE OF PRODUCT	TYPE AND RANGE OF INSPECTION	INSPECTION METHOD, CODES OR STANDARDS USED
1. Soil	Site Investigation	BS 5930:1999+A2:2010 BS 5930 2015+A1:2020 BS EN ISO 22475-1:2021
	Identification and Classification of Soil	BS 5930 2015+A1:2020 BS EN ISO 14688-1:2018 BS EN ISO 14688-2:2018
	Under Undisturbed Sampling	
	a) Stationary Piston Sampler	BS 5930 2015+A1:2020, Section 4, CI 25.5 BS EN ISO 22475-1:2021
	b) Open Thin Wall Sampler	BS 5930 2015+A1:2020, Section 4, CI 25.4 BS EN ISO 22475-1:2021
	c) Mazier Sampler	BS 5930 2015+A1:2020, Section 4, CI 25.7 BS EN ISO 22475-1:2021
	Under Functional Testing	
	a) Standard Penetration Test	BS 1377:Part 9:1990, CI 3.3 BS EN ISO 22476-3:2005+A1:2011
	b) Vane Shear Test	BS1377:Part 9:1990, CI 4.4 BS EN ISO 22476-9:2020

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TYPE OF PRODUCT	TYPE AND RANGE OF INSPECTION	INSPECTION METHOD, CODES OR STANDARDS USED
2. Rock	c) Pressuremeter Test	BS 5930 2015+A1:2020, Section 7, CI 43 BS EN ISO 22476-4:2012 BS EN ISO 22476-8:2018 CAST/INSP/SI/16 (In-House Method)
	d) Field Permeability Test	BS 5930:1999 +A2:2010 BS 5930 2015+A1:2020, Section 7 CI 48 BS EN ISO 22282-1:2012 BS EN ISO 22282-2:2012
	e) Dynamic Probing Test	BS EN ISO 22476-2:2005+A1:2011
	Site Investigation	BS 5930:1999+A2:2010 BS 5930 2015+A1:2020 BS EN ISO 22475-1:2021
	Identification and Classification of Rock	BS 5930 2015+A1:2020 BS EN ISO 14689:2018
	Under Undisturbed Sampling	
3. Instrumentation & Monitoring	a) Rock Core Barrel	BS 5930 2015+A1:2020, Section 4, CI 25.7 BS EN ISO 22475-1:2021
	Under Functional Testing	
	b) Field Permeability Test	BS 5930 2015+A1:2020, CI 48 BS EN ISO 22282-3:2012
	Measuring Displacement	
	a) Rod Extensometer	BS EN ISO 18764-2:2016
	b) Magnetic Extensometer	BS EN ISO 18764-2:2016
c) Inclinator	BS EN ISO 18764-3:2017+A1:2020	
Measuring Pressure		
a) Piezometer	BS EN ISO 18764-4:2020	
Measuring Groundwater Level		
a) Water Standpipe	BS EN ISO 18764-4:2020	

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TYPE OF PRODUCT	TYPE AND RANGE OF INSPECTION	INSPECTION METHOD, CODES OR STANDARDS USED
	Measuring Force a) Load Cells b) Strain Gauges	BS EN ISO 18764-1:2015 CLPL-SIM-MS-20 (In-House Method) BS EN ISO 18764-1:2015 CLPL-SIM-MS-22 (On Surface) (In-House Method) CLPL-SIM-MS-25 (Embedded) (In-House Method)

Approved signatories

Er Liew Yoon Hsien - For items 1 & 2
Mr. Gan Kai Siong - For item 3

Note:

An inspection body's fulfilment of the requirements of ISO/IEC 17020:2012 means the Inspection body meets both the technical competence requirements and **management system requirements** that are necessary for it to consistently deliver technically valid inspection results. The **management system requirements** in ISO/IEC 17020:2012 (Section 8) are written in language relevant to inspection body operations and are aligned with the pertinent requirements of ISO 9001.