



Australian Government

Department of Industry, Science,
Energy and Resources

**National
Measurement
Institute**

**Appointment as a Verifying Authority
for
Reference Standards of Measurement**

In accordance with Regulation 73 of *National Measurement Regulations 1999* (Cth), in force under the *National Measurement Act 1960* (Cth), the Chief Metrologist hereby appoints,

**CI Scientific Pty Limited
(ABN 35 105 113 595)**

Operating at:
**Unit 1, 9 Bearing Road
Seven Hills NSW 2147**

to be a Verifying Authority for the verification of reference standards of measurement under regulation 13 of the *National Measurement Regulations 1999* (Cth) for the following physical quantities:

Mass and Density

This appointment is for the period from 29 October 2021 to 28 October 2024 and is limited to the range specified in the attached schedule, and the use of procedures approved by the Chief Metrologist.

Dated this Twenty Ninth day of October 2021

Signed

James Cantrill
For Dr Richard Bruce Warrington
Chief Metrologist
National Measurement Institute

Certificate: NMI2021-049-CIS-VARSM Form No. NMI/VARSM/2021 Page 1 of 4

Schedule to Appointment as a Verifying Authority for Reference Standards of Measurement

**CI Scientific Pty Limited
(ABN 35 105 113 595)**

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Physical Quantity	Range of Standard	Least Uncertainty
Mass	from 1 mg to 1000 kg	
Mass standards	from 1 mg to 20 mg	3 µg
	above 20 mg up to 50 mg	4 µg
	above 50 mg up to 500 mg	5 µg
	above 500 mg up to 1 g	6 µg
	above 1 g up to 2 g	7 µg
	above 2 g up to 5 g	10 µg
	above 5 g up to 10 g	25 µg
	above 10 g up to 20 g	30 µg
	above 20 g up to 50 g	40 µg
	above 50 g up to 100 g	60 µg
	above 100 g up to 200 g	0.11 mg
	above 200 g up to 500 g	0.3 mg
	above 500 g up to 1 kg	0.6 mg
	above 1 kg up to 2 kg	2.5 mg
	above 2 kg up to 10 kg	20 mg
	above 10 kg up to 20 kg	0.2 g
	above 20 kg up to 250 kg	0.02 kg
	above 250 kg up to 500 kg	0.05 kg
	above 500 kg up to 1000 kg	0.1 kg

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For Dr Richard Bruce Warrington
Chief Metrologist
National Measurement Institute

Physical Quantity**Range of Standard****Least Uncertainty****Density**

Density Hydrometers	from 0 to 2.0 g/mL	1/3 of smallest scale division
Apparent Density Hydrometers	from 0.990 to 1.040 kg/L	1/3 of smallest scale division
Soil Hydrometers	from -5 to +60 g/L	1/3 of smallest scale division
Brix Hydrometers	from 0 to 90 Bx	1/3 of smallest scale division
Bark Hydrometers	from 0 to 80 Bk	1/3 of smallest scale division
Baume Hydrometers	from 0 to 90 Be	1/3 of smallest scale division
Specific Gravity Hydrometers	from 0.6 to 2.0	1/3 of smallest scale division
Alcohol Hydrometers	from 0 to 100 %	1/3 of smallest scale division

Signatories

The following persons are the permitted signatories under this appointment:

Name	Physical Quantity	Range
Michael Cyrulla	Mass and Density	as per the scope of this schedule
Jurgen Cyrulla	Mass and Density	as per the scope of this schedule
Hardik Mavani	Mass and Density	as per the scope of this schedule

Statutory Conditions

This appointment as a verifying authority for reference standards of measurement under regulation 73 of the *National Measurement Regulations 1999* (Cth) is subject to the conditions stated in regulation 77 of the *National Measurement Regulations 1999* (Cth) as amended. At the time of appointment regulation 77 contains the following conditions

- (a) That the authority participate in training, related to the performance of the duties of an authority, required by the Chief Metrologist;
- (b) That the authority report, as required by the Chief Metrologist, about its performance of its duties;

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Chief Metrologist
National Measurement Institute

- (c) That the authority, and any responsible agent or employee of the authority, comply with the *National Measurement Act 1960* (Cth) and the *National Measurement Regulations 1999* (Cth) and any condition stated in the instrument of appointment.
- (d) That the authority comply with any determinations applying to the authority under regulation 20 of the *National Measurement Regulations 1999* (Cth).

Additional Conditions

In addition to the statutory conditions of appointment of authorities contained in regulation 77 of the *National Measurement Regulations 1999* (Cth) this appointment is also subject to the following conditions:

- (i) Continuing accreditation against AS ISO/IEC 17025 *General requirements for the competence of testing and calibration laboratories* in the form of NATA accreditation No. 411
- (ii) The authority shall not engage a responsible agent or arrange for any standard of measurement to be verified by an agent or anyone under its supervision without obtaining the prior consent of the Chief Metrologist in writing;
- (iii) Discharge of all financial obligations to the Chief Metrologist and/or the National Measurement Institute in respect of this appointment;
- (iv) Compliance with the formatting and/or any other requirements of the Chief Metrologist and/or the National Measurement Institute with respect to certificates of verification of reference standards of measurement;
- (v) During the term of this appointment each signatory under this appointment must attend a legal metrology seminar conducted by the Policy and Regulatory Services Section of the Legal Metrology Branch of the National Measurement Institute;
- (vi) This appointment revokes and replaces any previous appointments and/or any extensions granted to any previous appointments.

Notes: Nil

James Cantrill
For Dr Richard Bruce Warrington
Chief Metrologist
National Measurement Institute