DOSIMETRY CALIBRATION LABORATORY

NSC-TISI-TIS 17025
CALIBRATION 0278

Nuclear Technology Service Center, Thailand Institute of Nuclear Technology (Public Organization)

9/9 Moo 7, Saimoon Sub-district, Ongkharak District, Nakorn Nayok 26120, Thailand

Tel. 02-4019889 ext. 1910, 1142, E-mail: calibration@tint.or.th, www.tint.or.th

Certificate No: GPD0054/201025
Reference No: CL0054/081025

CALIBRATION CERTIFICATE

This is to certify that the instrument described below has been calibrated by Dosimetry Calibration Laboratory, Thailand Institute of Nuclear Technology (Public Organization).

Owner:	Center for Safety, Health and Environment of Chulalongkorn University
Address:	Chamchuri 1 Building, 1st Floor, Room 108, Phaya Thai Rd., Wang Mai, Pathum Wan, Bangkok 10330
Instrument:	Personal Dosimeter
Manufacturer:	RAE SYSTEMS, INC.
Model:	PRM-1200
Serial No:	0352005843
Date of receipt:	8 October 2025
Date of calibration:	20 October 2025

The calibration is traceable to the Physikalisch-Technische Bundesanstalt (PTB), the Federal Republic of Germany, through the Certificate No. 6.25-33/22K.

Approved by:

Jeerawat Esor

(Mr. Jeerawat Esor)

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Calibrated by: Wisarut Ketaiam
Verified by: Busayakorn Na Ranong
Issued date: 22 October 2025

Nuclear Technology Service Center, Thailand Institute of Nuclear Technology (Public Organization)

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Measurement Setup

Radiation beam:	Cs-137 radioactive source
Field size:	∅ 34 cm at distance 100 cm from source
Calibration method:	ISO 4037:2019
Personal Dose Equivalent Rate ($\dot{H}_p(10)$):	3.363 ± 0.216 mSv/h
Calibration condition:	With ISO slab phantom and 3 mm PMMA plate

Standard Dosimeters/Materials

Description	Model	Serial No.	Manufacturer
Ionization Chamber	A6	XQ111652	Standard Imaging
Electrometer	Supermax	R170815	Standard Imaging

Calibration Results

Range	Standard Output (µSv)	Instrument Reading (µSv)	Calibration Factor	Uncertainty (%)
Auto	100.00	94.63	1.07	8.6
Auto	200.00	190.7		
Auto	300.00	278.6		
Auto	400.00	375.4		
Auto	500.00	466.2		

Average reading before adjustment:

-	-	-	-

The uncertainties of calibration were based on a confidence level of approximately 95% corresponding to a coverage factor of 2 (k=2).
Remark: -

Laboratory Environment

During calibration, the environment in calibration room was maintained within the operating specifications of the instrument and standard as following:

Relative humidity:	(51.9 – 55.0)	%
Ambient temperature:	(21.6 – 22.1)	°C
Atmospheric pressure:	(1005.9 – 1006.1)	hPa

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