



Annex (1)

To the Accreditation Certificate No. **JAS Cal. - 008** Dated **18-02-2025**

Calibration of Secondary Standard Dosimetry Systems (SSDs)

and Calibration of Neutron Portable Devices

Scope of Accreditation

Calibration of Secondary Standard Dosimetry Systems (SSDs)

Measurand	Measuring Range	Calibration and measurement Capability (CMC) ^a	Calibration Methods/ Standards/ Remarks
Measurements of Air Kerma rate (Nk)	from $16 \cdot 10^{-3}$ mGy/h to 5 mGy/h	1.87% 2.60%	-For gamma Radiation Cs-137 : RID-SOP-016 Rev 4.1 based on ISO 4037 -For narrow spectrum series X-Ray beam: RID-SOP-020 Rev 1.2 based on ISO 4037
Measurement of Ambient dose equivalent rate (H*(10))	from $19 \cdot 10^{-3}$ mSv/h , to 5 mSv /h)	1.87% 2.60%	-For gamma Radiation Cs-137 : RID-SOP-016 Rev 4.1 based on ISO 4037 -For narrow spectrum series X-Ray beam: RID-SOP-020 Rev 1.2 based on ISO 4037
Measurement of Personal Dose equivalent rate	from $20 \cdot 10^{-3}$ mSv/h, to 5 mSv/h	1.87% 2.60%	-For gamma Radiation Cs-137 : RID-SOP-016 Rev 4.1 based on ISO 4037 -For narrow spectrum series X-Ray beam: RID-SOP-020 Rev 1.2 based on ISO 4037
Neutron Dosimetry	Neutron Emission rate (B) 6-150 [n/s]	16 %	RID-SOP-028 Rev 1.2 Based on ISO-8529-1 (2021) ISO-8529-2 (2000) ISO-8529-3 (2023)
	Ambient Dose Equivalent : 9-200 [μ Sv/h]		
	1 mSv per day	16 %	RID-SOP-031 Rev 0.0 Based on ISO-8529-1 (2021) ISO-8529-2 (2000) ISO-8529-3 (2023)



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a) The reported CMCs are expressed at approximately the 95 % level of confidence, using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

List of employees in the laboratory who are technically responsible for issuing the calibration certificates in the scope of accreditation:

1. **Dr. Ruba Alzubi (Quality Director)**
2. **Mr. Mamoun Al-Zoubi (Director of Research and Information Laboratories)**
3. **Alaa Aladwan (Section Head of Radiation Measurement Dosimetry and Secondary Standard Dosimetry)**
4. **Belal Amr (Section Head of the Neutron Calibration)**
5. **Eng. Hamzah Abdel-rahman (Acting Section Head of Quality control)**
6. **Eng. Baker Alikamah (Quality Control Engineer)**
7. **Eng. Seif Abu Assi (Lab supervisor)**
8. **Yazan Muslam (Lab supervisor)**