

Thermoluminescence Dosimetry System



Date of experiment: 18 September 2025

Medical Physics Laboratory I

Name: Souvik Das

Roll No: 241126007



National Institute of Science Education and Research
Jatani, Odisha, India

Date of submission: November 7, 2025

Contents

1	Objective	1
2	Apparatus	1
3	Theory	1
4	Observation	1
5	Conclusion	1
6	References	1



1 | Objective

- To study the characteristics of CaSO₄: Dy.
- To calibrate the TL/OSL research Reader in terms of absorbed dose and find out the unknown dose from a sample.

2 | Apparatus

- Annealed TLD samples (CaSO₄: Dy)
- Slab phantoms
- TL/OSL Research reader
- TLD Annealing Oven
- Radiation-generating equipment

3 | Theory

4 | Observation

5 | Conclusion

6 | References