

Roll No. 512CR1014



PROVISIONAL

**NATIONAL INSTITUTE OF TECHNOLOGY
ROURKELA**

This is to certify that

AISWARYA DASH

has successfully defended the thesis entitled
**"Development of SiO₂- CaF₂ Based Oxyfluoride Glass-Ceramic for
Upconversion Study"**

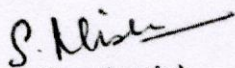
on Jan 05, 2023

and has fulfilled all the requirements for the degree of

DOCTOR OF PHILOSOPHY

on Jan 24, 2023

Rourkela
Date : Jan 31, 2023


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