

**Department of Pure and Applied Physics**  
**Guru Ghasidas Vishwavidyalaya (A Central University)**  
**Bilaspur (C.G.) 495009, India**

Date:

CERTIFICATE

This is to certify that Mr. L Shubham Kumar have studied and prepared a report under my supervision in the Department of Pure and Applied physics, Guru Ghasidas Vishwavidyalaya, Bilaspur, C.G. on the topic “A brief review on mechanoluminescence in rare earth doped  $\text{Ca}_2\text{MgSi}_2\text{O}_7$ ”.

Submitted by: -

L Shubham Kumar

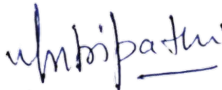
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