

**Facile synthesis of 1D/2D Co(CO<sub>3</sub>)(OH)<sub>2</sub>/NiAl-LDH  
heterojunction for efficient photocatalytic degradation of  
methylene blue dye under sunlight**

Project report submitted to the University of Mysore for  
the award of the degree of

**Master of Science**  
in  
**Physics**

**By**

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**Research Guide**

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## DECLARATION

We, Meghana C. M., Lavanya A. J. and Mamatha M. R., hereby declare that the project report entitled "Facile synthesis of 1D/2D Co(CO<sub>3</sub>)(OH)<sub>2</sub>/NiAl-LDH heterojunction for efficient photocatalytic degradation of methylene blue dye under sunlight" is the result of research work done by us in fourth semester of Master's degree in physics under the guidance of Prof. Lokanath N. K., Department of Studies in Physics, University of Mysore, Manasagangotri, Mysuru. We are submitting this project report for possible award of the degree of Master of science (M.Sc.) in Physics of the University of Mysore, Mysuru, India. We further declare that this project report or any part of it has not been submitted for the award of any other degree, diploma or associateship of this or any other University or Institution.

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