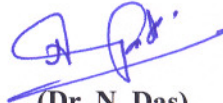


CERTIFICATE

Certified that the thesis "**Studies on microbial remediation of bauxite residue sites**" which is submitted by Mr. Pankaj Krishna, in fulfillment of the requirement for the award of the degree of **Doctor of Philosophy** in the Department of Biotechnology and Environmental Sciences, Thapar University, Patiala, is a record of the candidate's own independent and original research work carried out by him under my supervision and guidance. The matter embodied in this thesis has not been submitted in part or full to any other University or Institute for the award of any degree.



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DECLARATION

I hereby declare that the work which is being presented in this thesis "**Studies on microbial remediation of bauxite residue sites**" submitted by me for the award of the degree of **Doctor of Philosophy** in the Department of Biotechnology and Environmental Sciences, Thapar University, Patiala, is true and original record of my own independent and original research work carried out under the supervision of Dr. M. Sudhakar Reddy, Associate Professor, Department of Biotechnology and Environmental Sciences, Thapar University, Patiala, India. The matter embodied in this thesis has not been submitted in part or full to any other university or institute for the award of any degree in India or Abroad.

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Place : Patiala.

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