



Siksha 'O' Anusandhan University
(A Deemed to be University)

CERTIFICATE

This to certify that the thesis entitled “Date palm leaf-thermoplastic composite: An experimental study” being submitted by Sankar Narayan Das to SIKSHA “O” ANUSANDHAN UNIVERSITY, BHUBANESWAR, ODISHA, for the award of the degree of Doctor of Philosophy in Mechanical Engineering is a bonafide research work carried out by him under our supervision. The results presented in this thesis have not been submitted elsewhere for the award of any other degree.

In our opinion this work has reached the standard fulfilling the requirement for the award of the degree of Doctor of Philosophy in accordance with the regulations of the University.

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