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CERTIFICATE OF THE SUPERVISOR

This is to certify that the thesis entitled "**Connecting neutrino masses, mixing and related cosmology beyond standard model**" submitted to the School of Sciences Tezpur University in partial fulfillment of the requirements for the award of the degree of **Doctor of Philosophy in Physics** is a record of original research work carried out by **Ms. Ananya Mukherjee** under my supervision and guidance.

All help received by her from various sources have been duly acknowledged.

No part of this thesis has been submitted elsewhere for award of any other degree.

Place : Tezpur

(Mrinal Kumar Das)

Date :